

6.4 APÉNDICE IV – DIAGNÓSTICO DEL SISTEMA DE TRANSMISIÓN ZONAL

6.4.1 ZONA ARICA – DIEGO DE ALMAGRO

6.4.1.1 Transformadores AT/MT

Tabla 6.4.1. Cargabilidad de transformadores AT/MT, Zona Arica – Diego de Almagro.

Transformador	2019	2020	2021	2022	2023	2024	2025
ALTO HOSPICIO 110/13,8 kV	60%	63%	67%	70%	74%	78%	82%
ANTOFAGASTA 110/13,8 kV N°1	91%	96%	101%	40%	42%	44%	46%
Arica 66/13,8 kV N°2	0%	0%	0%	0%	0%	0%	0%
ARMAZONES 66/23 kV 10 MVA	17%	18%	19%	20%	21%	22%	23%
ATACAMA 220/23 kV N°1	19%	19%	20%	20%	21%	21%	22%
CALAMA 105/23 kV 30 MVA (Nuevo)	64%	67%	69%	72%	75%	78%	81%
CALAMA 105/23 kV N°4	51%	54%	56%	60%	63%	66%	69%
CALAMA 110/23 kV N°1	54%	57%	60%	63%	66%	70%	73%
CENTRO 110/13,8 kV N°2	92%	43%	46%	48%	50%	53%	55%
CENTRO 110/23 kV N°1	61%	64%	67%	58%	61%	64%	67%
CENTRO 110/23-13,8 kV 50 MVA (Nuevo)	0%	43%	46%	48%	50%	53%	55%
CERRO DRAGÓN 110/13,8 kV	75%	79%	83%	87%	92%	97%	101%
CHINCHORRO 66/13,8 kV (Reemplazado)	0%	0%	0%	0%	0%	0%	0%
CHINCHORRO 66/13,8 kV 16 MVA (Nuevo)	0%	0%	0%	71%	74%	78%	82%
CHINCHORRO 66/13,8 kV 30 MVA (Reemplazo)	93%	98%	103%	71%	74%	78%	82%
EL AGUILA 66/24-13,8 kV 10 MVA	21%	21%	21%	21%	21%	22%	22%
Guardiamarina 110/13,8 kV 50 MVA (Nuevo)	0%	36%	38%	40%	42%	44%	46%
Guardiamarina 110/23 kV 30 MVA (Nuevo)	0%	52%	54%	56%	58%	60%	62%
IQUIQUE 66/13,8 kV N°1	0%	0%	0%	0%	0%	0%	0%
LA PORTADA 110 / 23 kV N° 3	81%	85%	89%	62%	65%	69%	72%
LA PORTADA 110/23 kV N° 1	68%	71%	75%	62%	65%	68%	71%

Transformador	2019	2020	2021	2022	2023	2024	2025
LAGUNAS 220/23 kV	25%	26%	28%	29%	31%	32%	34%
PACÍFICO 110/13,8 kV	78%	83%	87%	92%	96%	101%	106%
PALAFITOS 110/13,8 kV	52%	54%	57%	60%	63%	67%	70%
POZO ALMONTE 110/23 kV 30 MVA (Nuevo)	0%	0%	0%	40%	42%	44%	46%
POZO ALMONTE 23/13,8 kV	73%	77%	81%	85%	90%	94%	99%
PUKARÁ 66/13,8 kV N°1	71%	75%	79%	83%	87%	91%	96%
PUKARÁ 66/13,8 kV N°2	57%	58%	59%	60%	62%	63%	64%
QUIANI 66/13,8 kV 20 MVA (Nuevo)	34%	36%	38%	40%	42%	44%	46%
QUIANI 66/13,8 kV N°1	34%	36%	38%	40%	42%	44%	46%
QUIANI 66/13,8 kV N°2	64%	68%	71%	75%	79%	82%	86%
SUR 110/13,8 kV	68%	71%	75%	79%	83%	87%	92%
TALTAL 110/13,2 kV 5 MVA	0%	0%	0%	39%	41%	43%	45%
TAMARUGAL 66/23 kV	0%	0%	0%	0%	0%	0%	0%
TAMARUGAL 66/23 kV 30 MVA (Reemplazo)	0%	0%	0%	10%	11%	11%	12%
TAP OFF CUYA 110/13,8 kV	56%	59%	62%	66%	69%	73%	76%
TAP OFF DOLORES 110/24 kV	8%	8%	9%	9%	9%	9%	9%
TAP OFF DOLORES 110/24 kV 15 MVA (Reemplazo)	77%	81%	85%	90%	94%	99%	104%
TAP OFF DOLORES 110/24 kV 2,8 MVA	70%	73%	77%	81%	86%	90%	94%
TAP OFF EL NEGRO 110/23 kV	43%	45%	47%	50%	53%	55%	58%
TAP OFF LA NEGRA 110/23 kV 1	59%	62%	65%	69%	73%	76%	80%
TAP OFF LA NEGRA 110/23 kV 2	38%	40%	42%	44%	47%	49%	51%
TAP OFF VITOR 110/13,8 kV	0%	0%	0%	71%	74%	78%	82%
TOCOPILLA 23/5 kV N° 1	93%	98%	103%	71%	74%	78%	82%
URIBE 110/23 kV	21%	21%	21%	21%	21%	22%	22%

6.4.1.2 Transformadores AT/AT

Tabla 6.4.2. Cargabilidad de transformadores AT/AT en escenario Verano Día, Zona Arica – Diego de Almagro.

Transformador	2019	2020	2021	2022	2023	2024	2025
Arica 110/66/13,8 kV	33%	33%	33%	32%	32%	32%	32%
Calama 220/110/23	25%	26%	29%	30%	16%	16%	17%
Capricornio 220/110/13,8 kV	129%	135%	77%	56%	56%	26%	27%
Cóndores 220/115/13,8 kV	40%	42%	44%	47%	72%	71%	71%
Esmeralda 220/115/13,8 kV	61%	64%	68%	64%	69%	54%	55%
Mejillones 220/115/13,8 kV	24%	24%	24%	43%	44%	34%	35%
Parinacota 220/69/13,8 kV	66%	70%	74%	78%	76%	80%	84%
Pozo Almonte 110/66/13,8 kV N°1	61%	63%	65%	68%	22%	22%	23%
Pozo Almonte 220/115/13,8 kV N°2	44%	45%	45%	47%	48%	49%	50%
Pozo Almonte 220/115/13,8 kV N°5	32%	31%	32%	32%	32%	32%	32%

Tabla 6.4.3. Cargabilidad de transformadores AT/AT en escenario Verano Noche, Zona Arica – Diego de Almagro.

Transformador	2019	2020	2021	2022	2023	2024	2025
Arica 110/66/13,8 kV	36%	35%	36%	35%	35%	35%	35%
Calama 220/110/23	34%	36%	37%	39%	20%	21%	22%
Capricornio 220/110/13,8 kV	116%	120%	62%	45%	52%	26%	27%
Cóndores 220/115/13,8 kV	72%	72%	71%	72%	72%	72%	71%
Esmeralda 220/115/13,8 kV	67%	71%	75%	68%	70%	55%	57%
Mejillones 220/115/13,8 kV	24%	24%	24%	46%	46%	35%	36%
Parinacota 220/69/13,8 kV	55%	58%	61%	65%	66%	69%	73%
Pozo Almonte 110/66/13,8 kV N°1	64%	67%	69%	72%	23%	24%	25%
Pozo Almonte 220/115/13,8 kV N°2	42%	43%	44%	46%	48%	51%	52%
Pozo Almonte 220/115/13,8 kV N°5	31%	32%	32%	32%	32%	32%	33%

Tabla 6.4.4. Cargabilidad de transformadores AT/AT en escenario Invierno Día, Zona Arica – Diego de Almagro.

Transformador	2019	2020	2021	2022	2023	2024	2025
Arica 110/66/13,8 kV	34%	33%	33%	32%	32%	32%	31%
Calama 220/110/23	35%	37%	38%	40%	21%	22%	23%
Capricornio 220/110/13,8 kV	113%	116%	57%	44%	54%	26%	27%
Cóndores 220/115/13,8 kV	37%	37%	72%	42%	72%	71%	72%
Esmeralda 220/115/13,8 kV	69%	73%	77%	70%	72%	56%	58%
Mejillones 220/115/13,8 kV	24%	24%	24%	46%	45%	35%	36%
Parinacota 220/69/13,8 kV	51%	53%	57%	60%	62%	65%	68%
Pozo Almonte 110/66/13,8 kV N°1	62%	65%	67%	70%	23%	23%	24%
Pozo Almonte 220/115/13,8 kV N°2	46%	49%	50%	53%	56%	57%	62%
Pozo Almonte 220/115/13,8 kV N°5	32%	32%	31%	33%	33%	31%	33%

Tabla 6.4.5. Cargabilidad de transformadores AT/AT en escenario Invierno Noche, Zona Arica – Diego de Almagro.

Transformador	2019	2020	2021	2022	2023	2024	2025
Arica 110/66/13,8 kV	36%	36%	36%	36%	36%	36%	36%
Calama 220/110/23	38%	41%	42%	44%	23%	24%	25%
Capricornio 220/110/13,8 kV	111%	115%	59%	45%	55%	27%	28%
Cóndores 220/115/13,8 kV	72%	71%	71%	71%	46%	71%	72%
Esmeralda 220/115/13,8 kV	73%	78%	82%	74%	74%	58%	60%
Mejillones 220/115/13,8 kV	24%	24%	24%	49%	46%	36%	37%
Parinacota 220/69/13,8 kV	48%	51%	56%	58%	59%	63%	66%
Pozo Almonte 110/66/13,8 kV N°1	64%	66%	69%	72%	23%	24%	24%
Pozo Almonte 220/115/13,8 kV N°2	48%	49%	52%	54%	55%	59%	61%
Pozo Almonte 220/115/13,8 kV N°5	32%	31%	32%	33%	32%	32%	32%

6.4.1.3 Líneas de Transmisión

Tabla 6.4.6. Cargabilidad de líneas de transmisión en escenario Verano Día, Zona Arica – Diego de Almagro.

Línea	2019	2020	2021	2022	2023	2024	2025
1x110 kV Antofagasta - Guardia Marina	0%	0%	0%	0%	5%	40%	41%
1x110 kV Tap Desalant - Guardia Marina	0%	0%	0%	34%	35%	25%	26%
1x110 kV La Negra - Antofagasta	40%	41%	41%	51%	53%	29%	30%
1x110 kV Arica - Tap Mal Paso	9%	9%	9%	9%	9%	9%	9%
1x110 kV Capricornio - Salar del Carmen	60%	62%	64%	48%	48%	34%	36%
1x110 kV El Negro - Capricornio	42%	44%	45%	39%	40%	17%	18%
1x110 kV Condores - Pacifico	29%	31%	32%	34%	36%	38%	40%
1x110 kV Condores - Palafitos	17%	17%	18%	19%	20%	22%	23%
1x110 kV Condores - Tap Alto Hospicio	28%	29%	31%	32%	34%	36%	38%
1x110 kV Esmeralda - Centro	46%	48%	51%	49%	51%	53%	56%
1x110 kV Esmeralda - Guardia Marina	22%	23%	24%	20%	25%	11%	11%
1x110 kV La Portada - Guardia Marina	0%	0%	0%	14%	14%	15%	16%
1x110 kV Esmeralda - Sur	35%	37%	39%	41%	43%	45%	47%
1x110 kV Tap Alto Hospicio - Cerro Dragon	14%	15%	16%	17%	18%	19%	20%
1x110 kV Salar del Carmen - Antofagasta	60%	62%	64%	48%	48%	34%	36%
1x110 kV Mejillones - Tap Desalant	12%	12%	12%	47%	48%	38%	38%
1x110 kV Salar del Carmen - Tap Uribe	0%	0%	0%	0%	0%	0%	0%
1x110 kV Tap Cuya - Tap Vitor 2	37%	39%	42%	45%	49%	52%	56%
2x110 kV Antofagasta - Antofagasta C1	67%	71%	74%	32%	34%	35%	37%
2x110 kV Antofagasta - Antofagasta C2	62%	66%	69%	30%	32%	33%	34%
1x220 kV Atacama - Esmeralda	72%	76%	80%	74%	82%	63%	65%
1x110 kV La Negra - La Negra	68%	72%	75%	79%	84%	88%	92%
1x66 kV (Ei1) Tap Quiani-Quiani- Quiani	13%	14%	15%	15%	16%	17%	18%
1x66 kV Parinacota- Chinchorro	59%	62%	66%	69%	72%	76%	80%

Línea	2019	2020	2021	2022	2023	2024	2025
1x66 kV (Ei1) Tap Quiani-Quiani- Parinacota	25%	26%	28%	29%	31%	33%	34%
1x66 kV Parinacota- Pukara	60%	63%	67%	70%	75%	78%	83%
1x66 kV (Ei1) Tap Quiani-Quiani- Tap Quiani	0%	0%	0%	0%	0%	0%	0%

Tabla 6.4.7. Cargabilidad de líneas de transmisión en escenario Verano Noche, Zona Arica – Diego de Almagro.

Línea	2019	2020	2021	2022	2023	2024	2025
1x110 kV Antofagasta - Guardia Marina	0%	0%	0%	0%	8%	48%	50%
1x110 kV Tap Desalant - Guardia Marina	0%	0%	0%	37%	37%	26%	27%
1x110 kV La Negra - Antofagasta	37%	37%	37%	47%	45%	33%	34%
1x110 kV Arica - Tap Mal Paso	11%	11%	11%	11%	11%	11%	11%
1x110 kV Capricornio - Salar del Carmen	55%	56%	58%	42%	48%	35%	36%
1x110 kV El Negro - Capricornio	39%	40%	41%	36%	38%	16%	17%
1x110 kV Condores - Pacífico	13%	14%	14%	15%	16%	17%	18%
1x110 kV Condores - Palafitos	15%	16%	17%	18%	18%	19%	21%
1x110 kV Condores - Tap Alto Hospicio	34%	36%	38%	40%	43%	45%	48%
1x110 kV Esmeralda - Centro	40%	42%	45%	42%	44%	46%	49%
1x110 kV Esmeralda - Guardia Marina	27%	29%	30%	24%	22%	12%	12%
1x110 kV La Portada - Guardia Marina	0%	0%	0%	19%	21%	21%	23%
1x110 kV Esmeralda - Sur	43%	46%	48%	50%	54%	56%	59%
1x110 kV Tap Alto Hospicio - Cerro Dragon	18%	19%	20%	21%	22%	24%	25%
1x110 kV Salar del Carmen - Antofagasta	55%	56%	58%	42%	48%	35%	37%
1x110 kV Mejillones - Tap Desalant	12%	12%	12%	49%	50%	38%	39%
1x110 kV Salar del Carmen - Tap Uribe	0%	0%	0%	0%	0%	0%	0%
1x110 kV Tap Cuya - Tap Vitor 2	14%	14%	15%	15%	15%	15%	16%
2x110 kV Antofagasta - Antofagasta C1	66%	69%	77%	24%	25%	26%	27%
2x110 kV Antofagasta - Antofagasta C2	61%	64%	72%	22%	23%	24%	25%
1x220 kV Atacama - Esmeralda	51%	54%	56%	52%	53%	42%	43%

Línea	2019	2020	2021	2022	2023	2024	2025
1x110 kV La Negra - La Negra	54%	57%	60%	63%	66%	69%	73%
1x66 kV (Ei1) Tap Quiani-Quiani- Quiani	9%	9%	9%	10%	10%	11%	12%
1x66 kV Parinacota- Chinchorro	50%	53%	56%	59%	61%	64%	68%
1x66 kV (Ei1) Tap Quiani-Quiani- Parinacota	16%	17%	18%	19%	20%	21%	22%
1x66 kV Parinacota- Pukara	56%	58%	62%	65%	68%	71%	76%
1x66 kV (Ei1) Tap Quiani-Quiani- Tap Quiani	0%	0%	0%	0%	0%	0%	0%

Tabla 6.4.8. Cargabilidad de líneas de transmisión en escenario Invierno Día, Zona Arica – Diego de Almagro.

Línea	2019	2020	2021	2022	2023	2024	2025
1x110 kV Antofagasta - Guardia Marina	0%	0%	0%	0%	10%	50%	53%
1x110 kV Tap Desalant - Guardia Marina	0%	0%	0%	38%	36%	26%	27%
1x110 kV La Negra - Antofagasta	42%	43%	43%	52%	50%	31%	32%
1x110 kV Arica - Tap Mal Paso	9%	9%	9%	9%	8%	8%	8%
1x110 kV Capricornio - Salar del Carmen	52%	54%	55%	40%	47%	33%	35%
1x110 kV El Negro - Capricornio	39%	40%	41%	36%	39%	16%	17%
1x110 kV Condores - Pacifico	16%	17%	18%	18%	19%	21%	22%
1x110 kV Condores - Palafitos	16%	17%	18%	19%	20%	21%	22%
1x110 kV Condores - Tap Alto Hospicio	31%	33%	35%	37%	39%	42%	44%
1x110 kV Esmeralda - Centro	53%	56%	59%	56%	59%	62%	65%
1x110 kV Esmeralda - Guardia Marina	25%	27%	28%	21%	19%	14%	15%
1x110 kV La Portada - Guardia Marina	0%	0%	0%	18%	18%	19%	20%
1x110 kV Esmeralda - Sur	44%	46%	48%	51%	53%	56%	59%
1x110 kV Tap Alto Hospicio - Cerro Dragon	15%	16%	17%	18%	19%	21%	22%
1x110 kV Salar del Carmen - Antofagasta	52%	54%	55%	40%	47%	33%	35%
1x110 kV Mejillones - Tap Desalant	12%	12%	12%	50%	49%	39%	40%
1x110 kV Salar del Carmen - Tap Uribe	0%	0%	0%	0%	0%	0%	0%
1x110 kV Tap Cuya - Tap Vitor 2	36%	39%	41%	45%	48%	51%	57%

Línea	2019	2020	2021	2022	2023	2024	2025
2x110 kV Antofagasta - Antofagasta C1	67%	71%	74%	3%	4%	4%	4%
2x110 kV Antofagasta - Antofagasta C2	62%	66%	69%	3%	3%	3%	4%
1x220 kV Atacama - Esmeralda	81%	86%	90%	82%	85%	66%	68%
1x110 kV La Negra - La Negra	63%	67%	70%	74%	77%	81%	86%
1x66 kV (Ei1) Tap Quiani-Quiani- Quiani	0%	0%	0%	0%	0%	0%	0%
1x66 kV Parinacota- Chinchorro	40%	42%	44%	47%	49%	51%	53%
1x66 kV (Ei1) Tap Quiani-Quiani- Parinacota	1%	1%	1%	1%	1%	1%	1%
1x66 kV Parinacota- Pukara	65%	68%	72%	77%	80%	83%	88%
1x66 kV (Ei1) Tap Quiani-Quiani- Tap Quiani	0%	0%	0%	0%	0%	0%	0%

Tabla 6.4.9. Cargabilidad de líneas de transmisión en escenario Invierno Noche, Zona Arica – Diego de Almagro.

Línea	2019	2020	2021	2022	2023	2024	2025
1x110 kV Antofagasta - Guardia Marina	0%	0%	0%	0%	13%	54%	57%
1x110 kV Tap Desalant - Guardia Marina	0%	0%	0%	40%	37%	27%	28%
1x110 kV La Negra - Antofagasta	41%	42%	42%	52%	48%	33%	34%
1x110 kV Arica - Tap Mal Paso	12%	12%	12%	12%	12%	12%	12%
1x110 kV Capricornio - Salar del Carmen	51%	52%	54%	39%	49%	36%	37%
1x110 kV El Negro - Capricornio	39%	39%	40%	35%	39%	17%	17%
1x110 kV Condores - Pacifico	13%	14%	15%	16%	17%	18%	18%
1x110 kV Condores - Palafitos	13%	14%	15%	15%	16%	17%	18%
1x110 kV Condores - Tap Alto Hospicio	30%	32%	34%	36%	37%	40%	42%
1x110 kV Esmeralda - Centro	46%	48%	51%	49%	51%	54%	57%
1x110 kV Esmeralda - Guardia Marina	28%	29%	31%	22%	19%	15%	16%
1x110 kV La Portada - Guardia Marina	0%	0%	0%	20%	21%	22%	23%
1x110 kV Esmeralda - Sur	47%	49%	52%	55%	58%	61%	64%
1x110 kV Tap Alto Hospicio - Cerro Dragon	14%	15%	16%	17%	18%	19%	20%
1x110 kV Salar del Carmen - Antofagasta	51%	52%	54%	39%	49%	36%	37%

Línea	2019	2020	2021	2022	2023	2024	2025
1x110 kV Mejillones - Tap Desalant	12%	12%	12%	53%	50%	39%	41%
1x110 kV Salar del Carmen - Tap Uribe	0%	0%	0%	0%	0%	0%	0%
1x110 kV Tap Cuya - Tap Vitor 2	17%	17%	17%	17%	17%	17%	17%
2x110 kV Antofagasta - Antofagasta C1	66%	69%	77%	3%	3%	3%	3%
2x110 kV Antofagasta - Antofagasta C2	61%	64%	72%	3%	3%	3%	3%
1x220 kV Atacama - Esmeralda	49%	52%	55%	49%	49%	39%	40%
1x110 kV La Negra - La Negra	61%	64%	68%	71%	76%	79%	83%
1x66 kV (Ei1) Tap Quiani-Quiani- Quiani	7%	7%	7%	8%	8%	9%	9%
1x66 kV Parinacota- Chinchorro	38%	40%	42%	44%	46%	49%	51%
1x66 kV (Ei1) Tap Quiani-Quiani- Parinacota	13%	13%	14%	15%	15%	16%	17%
1x66 kV Parinacota- Pukara	58%	62%	65%	68%	72%	76%	79%
1x66 kV (Ei1) Tap Quiani-Quiani- Tap Quiani	0%	0%	0%	0%	0%	0%	0%

6.4.2 ZONA DIEGO DE ALMAGRO – QUILLOTA

6.4.2.1 Transformadores AT/MT

Tabla 6.4.10. Cargabilidad de transformadores AT/MT, Zona Diego de Almagro - Quillota.

Transformador	2019	2020	2021	2022	2023	2024	2025
ALGARROBO NORTE 66/12 kV 7 MVA	53%	56%	59%	62%	65%	69%	72%
ALTO DEL CARMEN 110/13,8 kV 8-10 MVA	39%	41%	43%	46%	48%	50%	53%
ANDACOLLO 66/23 kV 8 MVA 2	23%	24%	25%	26%	27%	28%	29%
ANDACOLLO 66/24-13,8 kV 5 MVA 1	49%	51%	53%	55%	57%	59%	62%
CABILDO 110/25 kV 30 MVA 1	73%	76%	79%	82%	85%	88%	92%
CALDERA 110/23 kV 10-12 MVA	60%	63%	67%	70%	74%	77%	81%
CASAS VIEJAS 110/23 kV 10 MVA	69%	73%	76%	81%	85%	89%	93%
CERRILLOS 110/23 kV 25-30 MVA	62%	66%	69%	72%	76%	80%	83%
CHAÑARAL 23-13,8 kV 5-6,25 MVA	43%	46%	48%	51%	53%	56%	59%
COMBARBALA 66/13,8 kV 2.6 MVA 1	20%	22%	23%	24%	25%	26%	28%
COMBARBALA 66/13,8 kV 2.6 MVA 2	21%	22%	24%	25%	26%	27%	29%
COMBARBALA 66/13,8 kV 5 MVA (Nuevo)	38%	40%	42%	44%	46%	49%	52%
COPIAPO 110/13,8 kV 15-20-24 MVA 2	77%	81%	86%	90%	94%	99%	104%
COPIAPO 110/13,8 kV 16-20-25 MVA 1	74%	78%	82%	86%	91%	95%	100%
COPIAPO 115/25-13.4 kV 30 MVA	41%	43%	45%	47%	50%	52%	54%
DIEGO DE ALMAGRO TR 5 115/13,8/24 kV 10 MVA 5	37%	39%	41%	43%	46%	48%	50%
EL PENON 110/23 kV 30 MVA 1	54%	56%	58%	61%	63%	65%	68%
EL PENON 66/13,2 kV 18.7 MVA	47%	49%	52%	54%	57%	60%	63%
EL SALADO TR1 110/24 kV 15 MVA 1U	41%	43%	45%	47%	50%	52%	55%
EL SAUCE 66/13,2 kV 2 MVA	17%	18%	19%	20%	21%	22%	23%
GUAYACAN 66/13,8 kV 15 MVA 1	77%	81%	85%	90%	94%	99%	104%
GUAYACAN 66/23-13,2 kV 12.5 MVA 2	40%	42%	44%	46%	49%	51%	54%
HERNAN FUENTES 110/23 kV 15-20 MVA	49%	52%	55%	58%	61%	64%	67%

Transformador	2019	2020	2021	2022	2023	2024	2025
ILLAPEL 110/23 kV 15 MVA (Nuevo)	0%	0%	40%	43%	45%	47%	49%
ILLAPEL 110/24-13,8 kV 13MVA 2	78%	83%	40%	43%	45%	47%	49%
INCAHUASI 110/23 kV 5 MVA	60%	63%	67%	70%	74%	78%	81%
LAS COMPAÑIAS 110/14,2 kV 30 MVA 1	57%	60%	63%	67%	70%	73%	77%
LOS LOROS 110/23 kV 12-16-20 MVA	59%	62%	65%	69%	72%	76%	80%
MARBELLA 110/24-14,4 kV 13 MVA	59%	62%	65%	69%	72%	76%	79%
MARQUESA 66/24-13,8 kV 25 MVA 4	58%	60%	63%	65%	68%	71%	74%
MONTE PATRIA 66/13,2 kV 10 MVA	51%	54%	57%	60%	63%	66%	69%
MONTE PATRIA 66/23 kV 10 MVA	72%	76%	80%	84%	88%	93%	97%
OVALLE 66/24 kV 30 MVA	84%	88%	92%	97%	101%	106%	110%
OVALLE 66/24 kV 30 MVA 2	52%	54%	57%	59%	62%	65%	68%
PAN DE AZUCAR 110/13.8KV 30MVA	0%	0%	0%	0%	0%	0%	0%
PAN DE AZUCAR 110/13.8KV 30MVA T11	90%	95%	100%	105%	110%	116%	121%
PLANTAS 110/13,8 kV 16-20-24 MVA	66%	70%	73%	76%	80%	83%	87%
PUNITAQUI 110/13,2 kV 20 MVA	37%	38%	39%	40%	41%	42%	43%
PUNITAQUI 66/13,2 kV 20 MVA	33%	34%	34%	35%	36%	37%	38%
QUEREO 110/24-14.4 kV 13 MVA 1	58%	61%	65%	68%	72%	75%	79%
QUINQUIMO 110/23 kV 20 MVA 1	77%	81%	85%	90%	94%	99%	104%
SALAMANCA 110/24-13,8 kV 10 MVA	71%	75%	79%	83%	87%	92%	96%
SALAMANCA 110/24-13,8 kV 20 MVA	26%	28%	29%	31%	32%	34%	36%
SAN JOAQUÍN 110/13,2 kV 30 MVA (Nuevo)	55%	57%	58%	60%	62%	65%	67%
SAN JOAQUIN 110/13,2 kV 30 MVA 1	33%	35%	36%	38%	40%	42%	44%
SAN JOAQUIN 110/13,2 kV 30 MVA 2	32%	33%	35%	37%	39%	41%	43%
SAN JUAN 66/13,8 kV 12,5 MVA (Reemplazo)	63%	67%	70%	74%	78%	82%	86%
SAN JUAN 66/13,8 kV 8/10 MVA (Reemplazado)	0%	0%	0%	0%	0%	0%	0%
SAN JUAN 66/13,8 kV 10,2 MVA	63%	67%	70%	74%	78%	82%	86%
TIERRA AMARILLA 110/23-13,2 kV 25-30 MVA	55%	56%	57%	58%	59%	60%	62%

Transformador	2019	2020	2021	2022	2023	2024	2025
TIERRA AMARILLA 110/23 kV 10-12 MVA	71%	72%	73%	75%	76%	78%	79%
VALLENAR TR1 110/13,8 kV 10 MVA 1U	73%	77%	81%	85%	90%	94%	99%
VALLENAR TR2 110/13,8 kV 10 MVA 1U	73%	77%	81%	85%	90%	94%	99%
VICUNA 110/23 kV 24 MVA	63%	66%	69%	73%	77%	81%	84%

6.4.2.2 Transformadores AT/AT

Tabla 6.4.11. Cargabilidad de transformadores AT/AT en escenario Verano Día, Zona Diego de Almagro - Quillota.

Transformador	2019	2020	2021	2022	2023	2024	2025
El Peñon 110/66 kV	35%	36%	38%	41%	43%	46%	48%
Illapel 115/66/13,2 kV_15 MVA_1	4%	5%	5%	5%	5%	5%	5%
Ovalle 110/66/13,8 kV T3	46%	47%	48%	51%	54%	57%	60%
Ovalle 110/66/13,8 kV T4	46%	47%	47%	51%	54%	57%	57%
P. Azucar 60MVA 110/69/23 kV	54%	56%	59%	62%	65%	69%	72%
D.de Almagro 220/110 kV – 120 MVA T4	54%	53%	54%	55%	55%	56%	56%
D.de Almagro 220/110 kV – 120 MVA T3	54%	53%	54%	55%	56%	56%	56%

Tabla 6.4.12. Cargabilidad de transformadores AT/AT en escenario Verano Noche, Zona Diego de Almagro - Quillota.

Transformador	2019	2020	2021	2022	2023	2024	2025
El Peñon 110/66 kV	32%	32%	35%	38%	39%	42%	44%
Illapel 115/66/13,2 kV_15 MVA_1	8%	8%	9%	9%	9%	10%	10%
Ovalle 110/66/13,8 kV T3	81%	42%	85%	47%	49%	52%	55%
Ovalle 110/66/13,8 kV T4	52%	42%	53%	47%	49%	52%	55%
P.Azucar 60MVA 110/69/23 kV	55%	57%	60%	64%	67%	70%	74%
D.de Almagro 220/110 kV - 120 MVA T4	53%	52%	53%	53%	54%	54%	54%
D.de Almagro 220/110 kV - 120 MVA T3	53%	52%	53%	53%	54%	54%	55%

Tabla 6.4.13. Cargabilidad de transformadores AT/AT en escenario Invierno Día, Zona Diego de Almagro - Quillota.

Transformador	2019	2020	2021	2022	2023	2024	2025
El Peñon 110/66 kV	34%	35%	38%	41%	43%	46%	48%
Illapel 115/66/13,2 kV_15 MVA_1	5%	5%	6%	6%	6%	6%	7%
Ovalle 110/66/13,8 kV T3	41%	43%	45%	47%	49%	53%	55%
Ovalle 110/66/13,8 kV T4	41%	43%	45%	47%	49%	53%	55%
P.Azucar 60MVA 110/69/23 kV	48%	51%	54%	56%	59%	63%	66%
D.de Almagro 220/110 kV - 120 MVA T4	52%	51%	52%	52%	53%	53%	54%
D.de Almagro 220/110 kV - 120 MVA T3	52%	51%	52%	52%	53%	53%	54%

Tabla 6.4.14. Cargabilidad de transformadores AT/AT en escenario Invierno Noche, Zona Diego de Almagro - Quillota.

Transformador	2019	2020	2021	2022	2023	2024	2025
El Peñon 110/66 kV	22%	23%	24%	26%	27%	29%	30%
Illapel 115/66/13,2 kV_15 MVA_1	8%	9%	9%	10%	10%	10%	11%
Ovalle 110/66/13,8 kV T3	37%	38%	48%	41%	44%	49%	48%
Ovalle 110/66/13,8 kV T4	37%	38%	48%	41%	44%	49%	48%
P.Azucar 60MVA 110/69/23 kV	60%	63%	66%	70%	74%	78%	81%
D.de Almagro 220/110 kV - 120 MVA T4	52%	52%	52%	53%	53%	54%	54%
D.de Almagro 220/110 kV - 120 MVA T3	52%	52%	53%	53%	53%	54%	54%

6.4.2.3 Líneas de Transmisión

Tabla 6.4.15. Cargabilidad de líneas de transmisión en escenario Verano Día, Zona Diego de Almagro – Quillota.

Línea	2019	2020	2021	2022	2023	2024	2025
1x110 kV Choapa - Quereo	11%	12%	13%	13%	14%	15%	15%
1x110 kV Copiapo - Copayapu	64%	67%	79%	83%	46%	42%	44%
2x110 kV Cardones - Copayapu C1	0%	0%	72%	76%	79%	79%	83%
2x110 kV Cardones - Copayapu C2	74%	77%	78%	82%	45%	41%	44%
1x110 kV Quinquimo - Casas Viejas	49%	51%	52%	55%	57%	60%	62%

Línea	2019	2020	2021	2022	2023	2024	2025
1x110 kV Choapa - Illapel	44%	46%	89%	97%	64%	66%	68%
1x66 kV El Espino- Combarbala	4%	4%	5%	5%	5%	5%	6%
1x110 kV Galleguillos - Copayapu	8%	8%	9%	10%	10%	9%	9%
1x110 kV Copayapu - Cerrillos	42%	44%	47%	50%	52%	14%	14%
1x110 kV Copiapo - H. Fuentes	8%	8%	8%	9%	9%	6%	6%
1x110 kV Castilla - Cardones	49%	47%	51%	51%	41%	42%	43%
1x110 kV Dos Amigos - Algarrobo	20%	15%	14%	10%	11%	11%	11%
1x110 kV Vallenar - Tap El Eden	6%	6%	7%	7%	7%	7%	8%
2x110 kV El Peñon - Pan de Azucar C1	48%	49%	49%	53%	57%	60%	61%
1x66 kV El Peñon- Andacollo	2%	2%	2%	2%	2%	3%	3%
1x66 kV El Sauce- Combarbala	2%	2%	2%	2%	2%	2%	2%
1x110 kV Galleguillos - Tap Impulsion	12%	12%	13%	13%	14%	7%	7%
1x110 kV H. Fuentes - Galleguillos	13%	14%	15%	16%	16%	20%	21%
1x66 kV El Espino- Illapel	4%	4%	4%	5%	5%	5%	5%
1x110 kV Illapel - Punitaqui tramo 1	9%	38%	38%	42%	70%	71%	72%
1x110 kV Illapel - Punitaqui tramo 2	2%	2%	2%	2%	2%	2%	2%
1x110 kV Illapel - Punitaqui tramo 3	0%	10%	10%	10%	11%	11%	11%
1x110 kV Salamanca - Illapel	10%	11%	11%	12%	13%	14%	14%
1x110 kV Pajonales - Incahuasi	17%	11%	10%	9%	10%	10%	10%
1x110 kV Las Compañías - Romeral	3%	6%	5%	8%	7%	7%	6%
1x110 kV Tap Las Luces - Taltal	7%	7%	7%	8%	8%	8%	9%
1x110 kV Maitencillo - Algarrobo	43%	34%	17%	14%	15%	16%	16%
1x110 kV Maitencillo - Vallenar	10%	11%	12%	12%	13%	14%	15%
1x110 kV Casas Viejas - Marbella	59%	62%	64%	68%	71%	74%	77%
2x110 kV El Peñon - Ovalle C1	65%	66%	65%	72%	76%	81%	82%
2x110 kV El Peñon - La Ruca C1	0%	0%	0%	73%	76%	80%	81%
2x110 kV El Peñon - Ovalle C2	65%	66%	65%	72%	76%	81%	82%

Línea	2019	2020	2021	2022	2023	2024	2025
2x110 kV El Peñon - La Ruca C2	0%	0%	0%	73%	76%	80%	81%
1x66 kV Ovalle- Punitaqui B	35%	36%	37%	38%	39%	41%	42%
2x66 kV Monte Patria- Ovalle C1	21%	22%	23%	25%	26%	28%	29%
2x66 kV Monte Patria- Ovalle C2	21%	22%	23%	25%	26%	28%	29%
1x110 kV Pan de Azucar - San Joaquin CGET	31%	31%	33%	36%	38%	40%	42%
1x66 kV Pan de Azucar- San Juan CGE	36%	38%	40%	42%	44%	47%	49%
2x110 kV El Peñon - Pan de Azucar C2	47%	48%	48%	53%	56%	60%	60%
2x110 kV Pan de Azucar - Vicuña C1	11%	13%	14%	15%	15%	16%	17%
2x110 kV Pan de Azucar - Vicuña C1	11%	13%	14%	15%	15%	16%	17%
1x110 kV Las Compañías - Pan de Azucar	21%	27%	28%	30%	31%	32%	33%
1x66 kV Punitaqui B- El Sauce	4%	4%	4%	4%	4%	4%	4%
1x110 kV Marbella - Quillota	70%	73%	76%	80%	84%	88%	92%
1x110 kV Quinquimo - Cabildo	45%	47%	48%	51%	53%	55%	58%
1x110 kV Choapa - Quinquimo	37%	39%	41%	44%	46%	49%	50%
1x110 kV Incahuasi - Romeral	17%	11%	10%	11%	11%	11%	11%
2x66 kV San Juan CGE- Guayacan C1	19%	20%	21%	22%	23%	25%	26%
2x66 kV San Juan CGE- Guayacan tramo 1 C2	22%	23%	24%	26%	27%	29%	30%
2x66 kV San Juan CGE- Guayacan tramo 2 C2	22%	23%	24%	26%	27%	29%	30%
1x110 kV Tap Impulsion - Caldera	9%	9%	9%	10%	10%	4%	4%
1x66 kV Pan de Azucar- Marquesa	42%	43%	45%	48%	50%	53%	55%
1x110 kV Tap El Eden - Alto del Carmen	6%	6%	6%	7%	7%	7%	8%
1x110 kV Tierra Amarilla - Plantas	23%	23%	25%	26%	26%	27%	29%

Tabla 6.4.16. Cargabilidad de líneas de transmisión en escenario Verano Noche, Zona Diego de Almagro - Quillota.

Línea	2019	2020	2021	2022	2023	2024	2025
1x110 kV Choapa - Quereo	15%	15%	16%	17%	18%	19%	20%
1x110 kV Copiapo - Copayapu	62%	65%	79%	83%	47%	43%	45%

Línea	2019	2020	2021	2022	2023	2024	2025
2x110 kV Cardones - Copayapu C1	0%	0%	70%	74%	76%	76%	80%
2x110 kV Cardones - Copayapu C2	71%	73%	74%	77%	44%	40%	42%
1x110 kV Quinquimo - Casas Viejas	40%	41%	43%	44%	46%	48%	50%
1x110 kV Choapa - Illapel	61%	93%	95%	99%	73%	73%	76%
1x66 kV El Espino- Combarbala	6%	7%	7%	7%	8%	8%	9%
1x110 kV Galleguillos - Copayapu	8%	9%	9%	10%	10%	9%	9%
1x110 kV Copayapu - Cerrillos	46%	48%	51%	54%	56%	16%	16%
1x110 kV Copiapo - H. Fuentes	6%	6%	7%	7%	7%	5%	5%
1x110 kV Castilla - Cardones	41%	40%	43%	43%	35%	35%	36%
1x110 kV Dos Amigos - Algarrobo	20%	15%	14%	11%	12%	13%	13%
1x110 kV Vallenar - Tap El Eden	5%	5%	5%	5%	6%	6%	6%
2x110 kV El Peñon - Pan de Azucar C1	44%	42%	48%	49%	51%	54%	57%
1x66 kV El Peñon- Andacollo	3%	3%	3%	3%	3%	3%	3%
1x66 kV El Sauce- Combarbala	2%	2%	2%	2%	2%	2%	2%
1x110 kV Galleguillos - Tap Impulsion	13%	14%	14%	15%	16%	7%	7%
1x110 kV H. Fuentes - Galleguillos	12%	12%	13%	14%	15%	19%	20%
1x66 kV El Espino- Illapel	6%	7%	7%	7%	8%	8%	8%
1x110 kV Illapel - Punitaqui tramo 1	12%	35%	36%	36%	70%	70%	71%
1x110 kV Illapel - Punitaqui tramo 2	2%	2%	2%	2%	2%	2%	2%
1x110 kV Illapel - Punitaqui tramo 3	0%	15%	16%	16%	17%	17%	18%
1x110 kV Salamanca - Illapel	14%	15%	15%	16%	17%	18%	19%
1x110 kV Pajonales - Incahuasi	18%	12%	12%	11%	11%	12%	12%
1x110 kV Las Compañías - Romeral	4%	8%	6%	9%	9%	8%	8%
1x110 kV Tap Las Luces - Taltal	6%	6%	7%	7%	7%	8%	8%
1x110 kV Maitencillo - Algarrobo	43%	35%	18%	16%	17%	18%	19%
1x110 kV Maitencillo - Vallenar	13%	14%	15%	15%	16%	17%	18%
1x110 kV Casas Viejas - Marbella	54%	56%	59%	62%	64%	67%	70%

Línea	2019	2020	2021	2022	2023	2024	2025
2x110 kV El Peñon - Ovalle C1	53%	50%	59%	58%	60%	64%	67%
2x110 kV El Peñon - La Ruca C1	0%	0%	0%	57%	61%	64%	68%
2x110 kV El Peñon - Ovalle C2	53%	50%	59%	58%	60%	64%	67%
2x110 kV El Peñon - La Ruca C2	0%	0%	0%	57%	61%	64%	68%
1x66 kV Ovalle- Punitaqui B	30%	32%	32%	34%	35%	36%	37%
2x66 kV Monte Patria- Ovalle C1	10%	11%	11%	12%	13%	14%	15%
2x66 kV Monte Patria- Ovalle C2	10%	11%	11%	12%	13%	14%	15%
1x110 kV Pan de Azucar - San Joaquin CGET	29%	30%	32%	34%	36%	38%	40%
1x66 kV Pan de Azucar- San Juan CGE	37%	39%	41%	44%	46%	48%	51%
2x110 kV El Peñon - Pan de Azucar C2	43%	42%	48%	48%	51%	53%	56%
2x110 kV Pan de Azucar - Vicuña C1	21%	23%	24%	26%	27%	28%	29%
2x110 kV Pan de Azucar - Vicuña C1	21%	23%	24%	26%	27%	28%	29%
1x110 kV Las Compañías - Pan de Azucar	22%	29%	29%	32%	33%	34%	35%
1x66 kV Punitaqui B- El Sauce	4%	4%	4%	4%	4%	4%	4%
1x110 kV Marbella - Quillota	68%	72%	75%	79%	82%	86%	91%
1x110 kV Quinquimo - Cabildo	36%	38%	39%	41%	42%	44%	46%
1x110 kV Choapa - Quinquimo	38%	40%	42%	45%	47%	50%	53%
1x110 kV Incahuasi - Romeral	14%	8%	9%	8%	8%	8%	9%
2x66 kV San Juan CGE- Guayacan C1	17%	18%	19%	20%	21%	22%	24%
2x66 kV San Juan CGE- Guayacan tramo 1 C2	22%	23%	25%	26%	27%	29%	30%
2x66 kV San Juan CGE- Guayacan tramo 2 C2	22%	23%	25%	26%	27%	29%	30%
1x110 kV Tap Impulsion - Caldera	10%	10%	11%	12%	12%	5%	5%
1x66 kV Pan de Azucar- Marquesa	35%	36%	38%	40%	42%	43%	46%
1x110 kV Tap El Eden - Alto del Carmen	4%	5%	5%	5%	5%	6%	6%
1x110 kV Tierra Amarilla - Plantas	25%	26%	28%	29%	29%	31%	32%

Tabla 6.4.17. Cargabilidad de líneas de transmisión en escenario Invierno Día, Zona Diego de Almagro - Quillota.

Línea	2019	2020	2021	2022	2023	2024	2025
1x110 kV Choapa - Quereo	13%	13%	13%	15%	15%	16%	17%
1x110 kV Copiapo - Copayapu	38%	42%	45%	48%	17%	14%	15%
2x110 kV Cardones - Copayapu C1	0%	0%	47%	52%	55%	54%	59%
2x110 kV Cardones - Copayapu C2	56%	59%	45%	47%	16%	14%	14%
1x110 kV Quinquimo - Casas Viejas	43%	44%	46%	48%	49%	51%	54%
1x110 kV Choapa - Illapel	55%	94%	92%	98%	66%	68%	70%
1x66 kV El Espino- Combarbala	4%	5%	5%	5%	6%	6%	6%
1x110 kV Galleguillos - Copayapu	1%	1%	1%	1%	1%	1%	1%
1x110 kV Copayapu - Cerrillos	35%	37%	40%	42%	44%	20%	21%
1x110 kV Copiapo - H. Fuentes	27%	28%	30%	31%	32%	29%	31%
1x110 kV Castilla - Cardones	35%	35%	33%	36%	30%	30%	30%
1x110 kV Dos Amigos - Algarrobo	22%	17%	14%	13%	13%	14%	15%
1x110 kV Vallenar - Tap El Eden	2%	2%	2%	3%	3%	3%	3%
2x110 kV El Peñon - Pan de Azucar C1	40%	41%	44%	48%	49%	53%	55%
1x66 kV El Peñon- Andacollo	2%	2%	3%	3%	3%	3%	3%
1x66 kV El Sauce- Combarbala	2%	2%	2%	2%	2%	2%	2%
1x110 kV Galleguillos - Tap Impulsion	10%	10%	11%	11%	12%	10%	11%
1x110 kV H. Fuentes - Galleguillos	10%	10%	11%	11%	12%	11%	11%
1x66 kV El Espino- Illapel	5%	5%	5%	5%	5%	6%	6%
1x110 kV Illapel - Punitaqui tramo 1	12%	39%	36%	39%	70%	71%	72%
1x110 kV Illapel - Punitaqui tramo 2	2%	2%	2%	2%	2%	2%	2%
1x110 kV Illapel - Punitaqui tramo 3	0%	11%	11%	11%	12%	12%	13%
1x110 kV Salamanca - Illapel	12%	13%	13%	14%	15%	15%	16%
1x110 kV Pajonales - Incahuasi	19%	13%	11%	12%	12%	13%	13%
1x110 kV Las Compañías - Romeral	7%	8%	7%	7%	7%	6%	6%
1x110 kV Tap Las Luces - Taltal	7%	7%	7%	8%	8%	8%	9%

Línea	2019	2020	2021	2022	2023	2024	2025
1x110 kV Maitencillo - Algarrobo	44%	34%	16%	16%	16%	17%	18%
1x110 kV Maitencillo - ValLENAR	15%	16%	17%	18%	19%	20%	22%
1x110 kV Casas Viejas - Marbella	52%	54%	56%	59%	61%	64%	67%
2x110 kV El Peñon - Ovalle C1	52%	53%	58%	62%	65%	69%	72%
2x110 kV El Peñon - La Ruca C1	0%	0%	0%	63%	65%	69%	72%
2x110 kV El Peñon - Ovalle C2	52%	53%	58%	62%	65%	69%	72%
2x110 kV El Peñon - La Ruca C2	0%	0%	0%	63%	65%	69%	72%
1x66 kV Ovalle- Punitaqui B	29%	30%	30%	31%	33%	33%	34%
2x66 kV Monte Patria- Ovalle C1	16%	17%	17%	19%	20%	21%	22%
2x66 kV Monte Patria- Ovalle C2	16%	17%	17%	19%	20%	21%	22%
1x110 kV Pan de Azucar - San Joaquín CGET	34%	35%	38%	41%	43%	45%	47%
1x66 kV Pan de Azucar- San Juan CGE	38%	41%	43%	45%	47%	50%	53%
2x110 kV El Peñon - Pan de Azucar C2	39%	40%	43%	47%	49%	52%	54%
2x110 kV Pan de Azucar - Vicuña C1	19%	17%	18%	18%	18%	19%	19%
2x110 kV Pan de Azucar - Vicuña C1	19%	17%	18%	18%	18%	19%	19%
1x110 kV Las Compañías - Pan de Azucar	22%	28%	30%	30%	31%	32%	33%
1x66 kV Punitaqui B- El Sauce	4%	4%	4%	4%	4%	4%	4%
1x110 kV Marbella - Quillota	62%	65%	67%	71%	74%	77%	80%
1x110 kV Quinquimo - Cabildo	39%	40%	42%	44%	45%	47%	49%
1x110 kV Choapa - Quinquimo	31%	32%	33%	36%	38%	40%	43%
1x110 kV Incahuasi - Romeral	15%	10%	8%	9%	9%	10%	10%
2x66 kV San Juan CGE- Guayacan C1	17%	18%	19%	20%	21%	23%	24%
2x66 kV San Juan CGE- Guayacan tramo 1 C2	23%	24%	25%	27%	28%	30%	31%
2x66 kV San Juan CGE- Guayacan tramo 2 C2	23%	24%	25%	27%	28%	30%	31%
1x110 kV Tap Impulsion - Caldera	7%	7%	8%	8%	9%	8%	8%
1x66 kV Pan de Azucar- Marquesa	21%	21%	22%	23%	24%	26%	27%
1x110 kV Tap El Eden - Alto del Carmen	3%	3%	3%	4%	4%	4%	4%

Línea	2019	2020	2021	2022	2023	2024	2025
1x110 kV Tierra Amarilla - Plantas	21%	22%	23%	24%	25%	26%	27%

Tabla 6.4.18. Cargabilidad de líneas de transmisión en escenario Invierno Noche, Zona Diego de Almagro - Quillota.

Línea	2019	2020	2021	2022	2023	2024	2025
1x110 kV Choapa - Quereo	13%	13%	14%	15%	16%	17%	17%
1x110 kV Copiapo - Copayapu	56%	59%	62%	65%	35%	33%	35%
2x110 kV Cardones - Copayapu C1	0%	0%	63%	66%	69%	69%	72%
2x110 kV Cardones - Copayapu C2	51%	53%	56%	58%	31%	30%	31%
1x110 kV Quinquimo - Casas Viejas	22%	23%	23%	24%	25%	26%	26%
1x110 kV Choapa - Illapel	53%	90%	93%	96%	67%	69%	71%
1x66 kV El Espino - Combarbala	6%	7%	7%	8%	8%	8%	9%
1x110 kV Galleguillos - Copayapu	8%	8%	9%	9%	10%	8%	9%
1x110 kV Copayapu - Cerrillos	20%	21%	22%	24%	25%	8%	8%
1x110 kV Copiapo - H. Fuentes	4%	4%	4%	4%	5%	5%	5%
1x110 kV Castilla - Cardones	35%	32%	36%	35%	28%	29%	30%
1x110 kV Dos Amigos - Algarrobo	18%	7%	13%	11%	12%	13%	13%
1x110 kV Vallenar - Tap El Eden	2%	2%	3%	3%	3%	3%	3%
2x110 kV El Peñon - Pan de Azucar C1	36%	36%	40%	41%	43%	47%	47%
1x66 kV El Peñon - Andacollo	3%	2%	3%	3%	3%	3%	3%
1x66 kV El Sauce- Combarbala	1%	2%	1%	1%	1%	1%	1%
1x110 kV Galleguillos - Tap Impulsion	12%	12%	13%	14%	14%	7%	7%
1x110 kV H. Fuentes - Galleguillos	11%	11%	12%	13%	13%	17%	18%
1x66 kV El Espino - Illapel	6%	6%	7%	7%	7%	8%	8%
1x110 kV Illapel - Punitaqui tramo 1	7%	27%	28%	28%	57%	58%	58%
1x110 kV Illapel - Punitaqui tramo 2	1%	1%	1%	1%	1%	1%	1%
1x110 kV Illapel - Punitaqui tramo 3	0%	6%	6%	6%	7%	7%	7%
1x110 kV Salamanca - Illapel	13%	14%	14%	15%	16%	16%	17%

Línea	2019	2020	2021	2022	2023	2024	2025
1x110 kV Pajonales - Incahuasi	16%	4%	11%	10%	11%	12%	12%
1x110 kV Las Compañías - Romeral	4%	12%	6%	8%	7%	7%	6%
1x110 kV Tap Las Luces - Taltal	5%	6%	6%	6%	6%	7%	7%
1x110 kV Maitencillo - Algarrobo	37%	19%	15%	14%	15%	16%	16%
1x110 kV Maitencillo - Vallenar	17%	18%	19%	20%	21%	22%	23%
1x110 kV Casas Viejas - Marbella	35%	37%	38%	40%	41%	43%	45%
2x110 kV El Peñon - Ovalle C1	41%	42%	47%	46%	49%	54%	53%
2x110 kV El Peñon - La Ruca C1	0%	0%	0%	46%	49%	54%	53%
2x110 kV El Peñon - Ovalle C2	41%	42%	47%	46%	49%	54%	53%
2x110 kV El Peñon - La Ruca C2	0%	0%	0%	46%	49%	54%	53%
1x66 kV Ovalle- Punitaqui B	23%	22%	28%	25%	25%	26%	31%
2x66 kV Monte Patria- Ovalle C1	8%	4%	11%	10%	10%	11%	11%
2x66 kV Monte Patria- Ovalle C2	8%	13%	11%	10%	10%	11%	11%
1x110 kV Pan de Azucar - San Joaquin CGET	33%	33%	36%	39%	41%	43%	45%
1x66 kV Pan de Azucar- San Juan CGE	40%	42%	44%	46%	49%	52%	54%
2x110 kV El Peñon - Pan de Azucar C2	33%	34%	38%	38%	40%	44%	44%
2x110 kV Pan de Azucar - Vicuña C1	18%	16%	16%	17%	17%	17%	18%
2x110 kV Pan de Azucar - Vicuña C1	18%	16%	16%	17%	17%	17%	18%
1x110 kV Las Compañías - Pan de Azucar	23%	33%	29%	31%	32%	33%	34%
1x66 kV Punitaqui B- El Sauce	4%	4%	4%	4%	4%	4%	4%
1x110 kV Marbella - Quillota	48%	51%	53%	55%	58%	60%	63%
1x110 kV Quinquimo - Cabildo	20%	21%	21%	22%	23%	23%	24%
1x110 kV Choapa - Quinquimo	30%	31%	33%	35%	37%	39%	41%
1x110 kV Incahuasi - Romeral	13%	3%	8%	8%	9%	9%	9%
2x66 kV San Juan CGE- Guayacan C1	17%	18%	19%	20%	21%	22%	23%
2x66 kV San Juan CGE- Guayacan tramo 1 C2	23%	24%	26%	27%	29%	30%	32%
2x66 kV San Juan CGE- Guayacan tramo 2 C2	23%	24%	26%	27%	29%	30%	32%

Línea	2019	2020	2021	2022	2023	2024	2025
1x110 kV Tap Impulsion - Caldera	9%	9%	10%	10%	11%	4%	4%
1x66 kV Pan de Azucar- Marquesa	35%	37%	38%	40%	42%	44%	46%
1x110 kV Tap El Eden - Alto del Carmen	3%	3%	4%	4%	4%	4%	4%
1x110 kV Tierra Amarilla - Plantas	26%	27%	29%	30%	31%	32%	33%

6.4.3 ZONA QUINTA

6.4.3.1 Transformadores AT/MT

Tabla 6.4.19. Cargabilidad de transformadores AT/MT, Zona Quinta.

Transformador	2019	2020	2021	2022	2023	2024	2025
ALGARROBONORTE 66/12KV 7MVA	67%	69%	72%	74%	77%	79%	82%
BOSQUEMAR 115/13.2KV 30MVA	55%	28%	29%	30%	31%	32%	33%
BOSQUEMAR 115/13.2KV 30MVA Nuevo	0%	28%	29%	30%	31%	32%	33%
CASABLANCA 66/12KV 25MVA 1	66%	69%	71%	73%	76%	78%	81%
CASABLANCA 66/12KV 18.3MVA 2	32%	33%	35%	36%	37%	38%	39%
CATEMU 44/12/7.2KV 16MVA 2	66%	33%	6%	6%	7%	7%	7%
CATEMU 44/12 kV 16 MVA Nuevo	0%	33%	34%	35%	37%	38%	39%
CONCON 110/12KV 25MVA 1	79%	81%	84%	87%	90%	93%	96%
CONCON 110/12KV 25MVA 2	0%	0%	0%	0%	0%	0%	0%
EL MELON 44/12KV 8MVA 1	31%	32%	33%	34%	35%	37%	38%
EL MELON 44/12KV 8MVA 2	82%	85%	88%	91%	94%	97%	100%
EL TOTORAL 66/12.5KV 8MVA 1	78%	80%	83%	86%	89%	92%	94%
JUNCAL PORTILLO 44/12KV 3.5MVA	28%	29%	30%	31%	32%	33%	35%
LA CALERA 110/12KV 22.5MVA 2	87%	90%	67%	69%	71%	74%	76%
LA CALERA 110/12KV 25MVA 3	63%	65%	51%	53%	55%	56%	58%
LA CALERA 110/12KV 30MVA NUEVO	0%	0%	33%	35%	36%	37%	38%

LA CALERA 110/44KV 30MVA	35%	36%	37%	39%	40%	41%	43%
LA CALERA 110/44KV 9.5MVA 1	0%	0%	0%	0%	0%	0%	0%
LAS PIÑATAS 66/12.5KV 1.88MVA	80%	83%	85%	88%	91%	94%	97%
LAS VEGAS 110/12KV 25MVA 3	0%	0%	0%	0%	0%	0%	0%
LAS VEGAS 110/12KV 30MVA NUEVO	63%	65%	68%	70%	72%	75%	77%
LAS VEGAS 110/44KV 28MVA 1	87%	90%	75%	78%	81%	83%	85%
LAS VEGAS 110/44KV 30MVA 2	71%	73%	56%	58%	59%	61%	63%
LAS VEGAS 110/44KV 28MVA 2	0%	0%	0%	0%	0%	0%	0%
LAS VEGAS 44/12 7MVA 3	0%	0%	0%	0%	0%	0%	0%
LBALANDRAS 66/12.5KV 11.2MVA 2	0%	0%	0%	0%	0%	0%	0%
LBALANDRAS 66/12.5KV 12.5MVA 1	79%	81%	84%	87%	90%	93%	96%
LOS PLACERES 110/12KV 25MVA 2	62%	64%	66%	69%	71%	73%	76%
LOS PLACERES 110/12KV 30MVA 1	59%	61%	63%	65%	67%	69%	71%
MIRAFLORES 110/12KV 22.4MVA 1	55%	57%	59%	61%	63%	65%	67%
MIRAFLORES 110/12KV 25MVA 2	66%	69%	71%	73%	76%	78%	81%
PANCHA 110/12KV 20MVA 1	41%	43%	44%	46%	47%	49%	50%
PANCHA 110/12KV 22.4MVA 2	53%	55%	57%	59%	61%	63%	65%
PANQUEHUE 44/12KV 16MVA 2	76%	41%	43%	44%	46%	47%	49%
NUEVA PANQUEHUE 110/12 kV	0%	35%	36%	37%	39%	40%	41%
PANQUEHUE 44/12KV 7MVA 1	0%	0%	0%	0%	0%	0%	0%
PEÑABLANCA 115/24.5/13.2KV 30MVA	54%	65%	67%	70%	72%	75%	77%
PLACILLA 110/12KV 30MVA 1	60%	29%	30%	31%	32%	33%	34%
PLACILLA 110/12KV 30MVA Nuevo	0%	33%	34%	36%	37%	38%	39%
QUILPUE 110/12KV 25MVA 1	61%	63%	65%	68%	70%	72%	74%
QUILPUE 110/12KV 25MVA 2	75%	77%	80%	82%	85%	88%	91%
QUILPUE 110/12KV 25MVA 3	66%	69%	71%	73%	76%	78%	81%
QUINTAY 66/12KV 3.125MVA	23%	24%	25%	25%	26%	27%	28%
QUINTERO 110/12KV 22.5MVA 1	67%	69%	71%	74%	76%	79%	81%

QUINTERO 110/12KV 22.5MVA 2	37%	39%	40%	41%	43%	44%	45%
REÑACA 110/12KV 22.4MVA 1	53%	55%	57%	59%	61%	63%	65%
REÑACA 110/12KV 30MVA 2	72%	75%	77%	80%	83%	85%	88%
REÑACA 110/12KV 20 MVA 2 FS	0%	0%	0%	0%	0%	0%	0%
RIO BLANCO 44/12KV 3,5 MVA NUEVO	14%	14%	15%	15%	16%	16%	17%
SAN ANTONIO 110/12KV 25MVA 1	61%	63%	65%	68%	70%	72%	74%
SAN ANTONIO 110/12KV 25MVA 2	73%	76%	78%	81%	84%	86%	89%
SAN ANTONIO 110/23KV 50 MVA Nuevo	46%	47%	49%	50%	52%	54%	55%
SAN ANTONIO 110/23KV 25MVA 4	0%	0%	0%	0%	0%	0%	0%
SAN FELIPE 110/12KV 25MVA 1	0%	0%	0%	0%	0%	0%	0%
SAN FELIPE 110/12KV 25MVA 2	98%	73%	76%	78%	81%	83%	86%
SAN FELIPE 110/12KV 50MVA Nueva	46%	36%	37%	39%	40%	41%	42%
SAN FELIPE 110/23KV 30MVA Nueva	0%	40%	41%	43%	44%	46%	47%
SAN FELIPE 44/12KV 10MVA Respaldo	0%	0%	0%	0%	0%	0%	0%
SAN PEDRO 110/12KV 25MVA 2	91%	94%	97%	101%	104%	107%	111%
SAN PEDRO 110/12KV 30MVA 1	53%	55%	57%	59%	60%	62%	64%
SAN RAFAEL 110/12KV 25MVA 1	84%	87%	90%	93%	96%	99%	102%
SAN RAFAEL 110/12KV 22.5MVA 2	69%	71%	74%	76%	79%	81%	84%
SAN RAFAEL 110/23 KV 30MVA 3	47%	48%	50%	52%	53%	55%	57%
SAN SEBASTIAN 66/12KV 18.3MVA	68%	70%	72%	75%	78%	80%	83%
SJERONIMO 66/12.5KV 5.25MVA	75%	77%	80%	83%	86%	88%	91%
TUNEL EL MELON 44/12KV 3.2MVA	10%	10%	10%	11%	11%	12%	12%
VALPARAISO 110/12KV 30MVA 1	48%	50%	52%	53%	55%	57%	59%
VALPARAISO 110/12KV 25MVA 2	61%	63%	65%	68%	70%	72%	74%
VALPARAISO 110/12 30MVA 3	35%	36%	37%	38%	39%	41%	42%
LEYDA 115/13.8KV 12.5MVA	70%	73%	75%	78%	80%	83%	86%
MARGA MARGA 115/13.6KV 26MVA 1	60%	62%	64%	66%	68%	70%	73%
MARGA MARGA 115/14.2KV 30MVA 2	69%	71%	74%	76%	79%	81%	84%

MARGA MARGA 115/15.3KV 30MVA 3	63%	65%	67%	70%	72%	74%	77%
MIRAFLORES 115/13.6KV 25MVA	60%	62%	64%	67%	69%	71%	73%
MAYACA 110/12 kV 30 MVA	50%	52%	53%	55%	57%	59%	61%

6.4.3.2 Transformadores AT/AT

Tabla 6.4.20. Cargabilidad de transformadores AT/AT en escenario Verano Día, Zona Quinta.

Transformador	2019	2020	2021	2022	2023	2024	2025
Aconcagua 110/66/13,8 kV	22%	22%	25%	25%	25%	25%	25%
Agua Santa 220/110/60 kV T1	66%	34%	34%	34%	33%	39%	39%
Agua Santa 220/110/60 kV T2	0%	34%	34%	34%	33%	39%	39%
Alto Melipilla 220/110 kV-150 MVA T1	85%	87%	45%	46%	42%	45%	44%
Alto Melipilla 220/110 kV-150 MVA T2	0%	0%	45%	46%	42%	45%	44%
CASABLANCA 66/12 kV 18,3 MVA 2	81%	83%	89%	64%	62%	67%	66%
CASABLANCA 66/12 kV 25 MVA 1	43%	44%	45%	24%	23%	25%	25%
Los Maquis 220/110/12 kV	13%	13%	15%	17%	26%	26%	25%
Ventanas 220/110/12 kV 300 MVA	37%	38%	27%	26%	42%	69%	66%

Tabla 6.4.21. Cargabilidad de transformadores AT/AT en escenario Verano Noche, Zona Quinta.

Transformador	2019	2020	2021	2022	2023	2024	2025
Aconcagua 110/66/13,8 kV	19%	20%	23%	23%	23%	22%	23%
Agua Santa 220/110/60 kV T1	59%	31%	30%	30%	30%	35%	35%
Agua Santa 220/110/60 kV T2		31%	30%	30%	30%	35%	35%
Alto Melipilla 220/110 kV-150 MVA T1	77%	79%	41%	41%	38%	40%	39%
Alto Melipilla 220/110 kV-150 MVA T2	0%	0%	41%	41%	38%	40%	39%
CASABLANCA 66/12 kV 18,3 MVA 2	73%	75%	80%	58%	56%	60%	60%
CASABLANCA 66/12 kV 25 MVA 1	39%	40%	41%	22%	21%	22%	22%
Los Maquis 220/110/12 kV	11%	12%	13%	16%	24%	24%	23%

Transformador	2019	2020	2021	2022	2023	2024	2025
Ventanas 220/110/12 kV_300 MVA	33%	34%	24%	24%	38%	62%	60%

Tabla 6.4.22. Cargabilidad de transformadores AT/AT en escenario Invierno Día, Zona Quinta.

Transformador	2019	2020	2021	2022	2023	2024	2025
Aconcagua 110/66/13,8 kV	19%	20%	20%	20%	19%	19%	19%
Agua Santa 220/110/60 kV T1	57%	29%	29%	29%	29%	30%	30%
Agua Santa 220/110/60 kV T2		29%	29%	29%	29%	30%	30%
Alto Melipilla 220/110 kV-150 MVA	66%	68%	35%	35%	32%	31%	32%
Alto Melipilla 220/110 kV-150 MVA 2	0%	0%	35%	35%	32%	31%	32%
CASABLANCA 66/12 kV 18,3 MVA 2	50%	51%	54%	33%	33%	34%	34%
CASABLANCA 66/12 kV 25 MVA 1	8%	8%	8%	9%	9%	9%	9%
Los Maquis 220/110/12 kV	6%	6%	22%	24%	23%	19%	18%
Ventanas 220/110/12 kV_300 MVA	27%	28%	24%	24%	28%	51%	52%

Tabla 6.4.23. Cargabilidad de transformadores AT/AT en escenario Invierno Noche, Zona Quinta.

Transformador	2019	2020	2021	2022	2023	2024	2025
Aconcagua 110/66/13,8 kV	22%	22%	23%	23%	21%	21%	22%
Agua Santa 220/110/60 kV T1	64%	33%	33%	33%	33%	34%	35%
Agua Santa 220/110/60 kV T2	0%	33%	33%	33%	33%	34%	35%
Alto Melipilla 220/110 kV-150 MVA	75%	77%	39%	40%	36%	36%	36%
Alto Melipilla 220/110 kV-150 MVA 2	0%	0%	39%	40%	36%	36%	36%
CASABLANCA 66/12 kV 18,3MVA 2	56%	58%	61%	37%	37%	39%	39%
CASABLANCA 66/12 kV 25 MVA 1	9%	9%	10%	10%	10%	10%	11%
Los Maquis 220/110/12 kV	7%	7%	25%	27%	26%	21%	21%
Ventanas 220/110/12 kV 300 MVA	31%	32%	27%	27%	32%	58%	59%

6.4.3.3 Líneas de Transmisión

Tabla 6.4.24. Cargabilidad de líneas de transmisión en escenario Verano Día, Zona Norte Quinta.

Línea	2019	2020	2021	2022	2023	2024	2025
A.Santa – Torre 54 L1	35%	37%	37%	39%	27%	25%	25%
A.Santa – Torre 54 L2	35%	37%	37%	39%	27%	25%	25%
Aconcagua - Saladillo 66 kV L1	0%	0%	0%	0%	0%	0%	0%
Aconcagua - Saladillo 66 kV L2	0%	0%	0%	0%	0%	0%	0%
Agua Santa - Miraflores 110 kV C1	31%	32%	24%	26%	29%	49%	49%
Agua Santa - Miraflores 110 kV C2	31%	32%	24%	26%	29%	49%	49%
Agua Santa - Placilla 110 kV	19%	20%	21%	11%	12%	12%	12%
Algarrobo Norte - Litoral 66 kV L1	66%	69%	63%	68%	30%	29%	30%
Algarrobo Norte - Litoral 66 kV L2	68%	71%	64%	70%	31%	30%	31%
Alto Melipilla - Leyda 110 kV	40%	42%	46%	47%	43%	46%	46%
Alto Melipilla - San Antonio 110 kV	36%	38%	42%	43%	39%	42%	41%
Catemu - Los Angeles 44 kV	34%	36%	36%	38%	41%	45%	44%
Chagres - Catemu 44 kV	127%	134%	134%	140%	150%	167%	163%
Con Con - Bosquemar 110 kV	7%	7%	8%	8%	4%	5%	5%
El Melón - Túnel El Melón 44kV	1%	2%	2%	2%	2%	2%	2%
Esperanza - Chagres 110 kV L2	14%	14%	49%	47%	0%	0%	0%
Esperanza - Tap Chagres 110 kV L1	15%	15%	49%	47%	0%	0%	0%
FFCC Los Andes - Riecillos 44 kV C1	2%	2%	2%	2%	2%	2%	2%
FFCC Los Andes - Riecillos 44 kV C2	2%	2%	2%	2%	2%	2%	2%
Juncal 44 kV - Hnos. Clark 44 kV C1	0%	0%	0%	0%	0%	0%	0%
Juncal 44 kV - Hnos. Clark 44 kV C2	0%	0%	0%	0%	0%	0%	0%
L. Verde - Quintay 66 kV L1	70%	73%	67%	73%	35%	34%	35%

L. Verde - Quintay 66 kV L2	72%	76%	69%	75%	36%	35%	36%
LAS VEGAS - CRISTALERIA CHILE 110KV C1	19%	20%	19%	19%	20%	21%	20%
La Calera - El Cobre 110 kV	47%	49%	48%	48%	50%	52%	50%
La Calera - El Melón 44kV	41%	43%	44%	45%	48%	53%	52%
La Calera - La Calera Centro 62 kV	23%	24%	24%	24%	24%	26%	25%
La Calera - Tap Pachacama 44 kV C1	1%	1%	1%	1%	1%	1%	1%
La Calera - Tap Pachacama 44 kV C2	1%	1%	1%	1%	1%	1%	1%
La Calera Centro - Esperanza 66 kV L1	1%	1%	1%	1%	1%	1%	1%
La Calera Centro - Esperanza 66 kV L2	1%	1%	1%	1%	1%	1%	1%
Las Piñatas - Tap El Manzano 66 kV	42%	44%	47%	48%	49%	52%	52%
Las Vegas - Esperanza 110 kV	30%	31%	0%	0%	0%	0%	0%
Las Vegas - Tap Chagres 44 kV C1	66%	70%	70%	73%	55%	61%	60%
Las Vegas - Tap Chagres 44 kV C2	27%	29%	29%	30%	55%	61%	60%
Las Vegas - Tap Vichiculén 44 kV C1	5%	5%	5%	5%	5%	6%	6%
Las Vegas - Tap Vichiculén 44 kV C2	5%	5%	5%	5%	5%	6%	6%
Litoral - San Sebastian 66 kV L1	23%	24%	21%	19%	24%	22%	24%
Litoral - San Sebastian 66 kV L2	24%	25%	21%	19%	25%	24%	26%
Los Maquis - Cordillera 220 kV	24%	25%	27%	27%	28%	29%	28%
Los Maquis - Hornitos 220 kV	23%	25%	14%	14%	14%	16%	14%
Los Quilos - Aconcagua 66 kV	14%	15%	17%	17%	17%	17%	17%
Los Quilos - Los Maquis 110 kV	29%	31%	29%	29%	29%	29%	29%
Miraflores - Marga Marga 110 kV L1	42%	44%	46%	47%	50%	54%	53%
Miraflores - Marga Marga 110 kV L2	38%	40%	41%	43%	45%	48%	48%
Miraflores - Tap Quilpue 110 kV L1	55%	58%	37%	38%	48%	53%	50%
Miraflores - Tap Quilpue 110 kV L2	55%	58%	36%	37%	48%	53%	49%

Polpaico - Los Maquis 220 kV L1	4%	5%	11%	10%	9%	10%	9%
Quintay - Algarrobo Norte 66 kV L1	69%	73%	66%	72%	34%	33%	34%
Quintay - Algarrobo Norte 66 kV 2	69%	73%	66%	72%	34%	33%	34%
Riecillos - Río Blanco 44 kV C1	2%	2%	2%	3%	3%	3%	3%
Riecillos - Río Blanco 44 kV C2	1%	1%	1%	1%	1%	1%	1%
Río Blanco 44 kV - Juncal 44 kV C1	1%	1%	1%	1%	1%	1%	1%
Río Blanco 44 kV - Juncal 44 kV C2	1%	1%	1%	1%	1%	1%	1%
S/E Chagres - Tap San Felipe 44 kV C1	8%	9%	9%	9%	14%	16%	15%
S/E Chagres - Tap San Felipe 44 kV C2	36%	38%	38%	40%	40%	45%	43%
SAN PEDRO - PEÑABLANCA 110KV C2	18%	19%	20%	20%	17%	18%	19%
San Antonio - Leyda 110 kV	30%	32%	36%	36%	31%	34%	34%
Quillota - San Pedro 110 kV	29%	30%	12%	19%	43%	77%	75%
San Jerónimo - Las Piñatas 66 kV	46%	49%	51%	53%	53%	57%	57%
San Luis - Agua Santa 220 kV L1	21%	22%	18%	20%	29%	39%	42%
San Luis - Agua Santa 220 kV L2	21%	22%	18%	20%	29%	39%	42%
San Pedro - Pachacama 110 kV L1	28%	29%	15%	18%	34%	40%	35%
San Pedro - Pachacama 110 kV L2	31%	32%	18%	21%	38%	44%	40%
San Pedro - Tap Quilpue 110 kV L1	44%	46%	43%	43%	33%	33%	36%
San Sebastian - San Antonio 66 kV L1	27%	28%	31%	29%	22%	20%	22%
San Sebastian - San Antonio 66 kV L2	27%	28%	31%	29%	21%	20%	22%
TAP SAN FELIPE - SAN FELIPE 44KV C1	0%	0%	0%	0%	0%	0%	0%
TAP SAN FELIPE - SAN FELIPE 44KV C2	0%	0%	0%	0%	0%	0%	0%
TORQUEMADA - MAUCO 110KV C1	1%	1%	1%	1%	1%	1%	1%
TORQUEMADA - MAUCO 110KV C2	1%	1%	1%	1%	1%	1%	1%
Tap Achupallas - Miraflores 110 kV L2	53%	56%	46%	47%	42%	60%	61%

Tap Achupallas - Tap Reñaca 110 kV	41%	43%	51%	50%	50%	28%	33%
Tap Algarrobo - San Jeronimo	56%	59%	62%	64%	65%	70%	69%
Tap Caleu - Rungue 44 kV C1	5%	6%	6%	6%	6%	7%	7%
Tap Caleu - Rungue 44 kV C2	5%	6%	6%	6%	6%	7%	7%
Tap Casa Blanca - Casa Blanca 66 L1 kV	74%	77%	82%	83%	23%	27%	26%
Tap Casa Blanca - Casa Blanca 66 L2 kV	1%	1%	1%	1%	25%	29%	29%
Tap Chagres - Tap S. Felipe 110 kV L1	15%	16%	17%	20%	17%	17%	19%
Tap El Manzano - El Totoral 66 kV	15%	16%	17%	17%	18%	19%	19%
Tap El Manzano - Las Balandras 66 kV	26%	27%	28%	29%	30%	32%	32%
Tap Entel - Tap Caleu 44 kV C1	5%	5%	5%	5%	6%	6%	6%
Tap Entel - Tap Caleu 44 kV C2	5%	5%	5%	5%	5%	6%	6%
Tap Los Maquis - Aconcagua 110kV L1	36%	38%	25%	25%	25%	26%	25%
Tap Los Maquis - Aconcagua 110kV L2	36%	38%	24%	24%	24%	26%	24%
Tap Los Maquis - Los Maquis 110kV L1	21%	23%	12%	11%	5%	7%	6%
Tap Los Maquis - Los Maquis 110kV L2	11%	12%	5%	8%	14%	14%	13%
Tap Mayaca - Mayaca L1	11%	12%	12%	12%	13%	13%	13%
Tap Mayaca - Mayaca L2	7%	8%	7%	7%	7%	7%	7%
Tap Pachacama - Cerro Calera 110 kV L1	52%	55%	54%	55%	57%	61%	58%
Tap Pachacama - Cerro Calera 110 kV L2	65%	68%	68%	70%	73%	80%	78%
Tap Placeres - Placeres 110 kV L1	18%	19%	19%	20%	20%	22%	22%
Tap Placeres - Placeres 110 kV L2	16%	17%	18%	19%	20%	21%	21%
Tap Playa Ancha - L. Verde 110 kV L2	43%	46%	38%	42%	20%	20%	20%
Tap Playa Ancha - Playa Ancha 110 L1	6%	7%	7%	7%	8%	8%	8%
Tap Playa Ancha - Playa Ancha 110 kV L2	18%	19%	19%	20%	21%	23%	22%
Tap Quilpue - Quilpue 110 kV C1	52%	55%	57%	59%	62%	67%	67%

Tap Quilpue - Quilpue 110 kV C2	31%	33%	34%	35%	36%	39%	38%
Tap Quilpue - Tap Achupallas 110 kV L2	39%	41%	32%	33%	41%	45%	42%
Tap Quintay - Quintay L1	1%	1%	1%	1%	1%	1%	1%
Tap Quintay - Quintay L2	1%	1%	1%	1%	1%	1%	1%
Tap Reñaca - Con Con 110 kV	76%	80%	92%	91%	45%	28%	28%
Tap Reñaca - Reñaca 110 kV	48%	51%	53%	55%	57%	62%	62%
Tap S. Rafael - Tap Los Maquis 110 kV L1	52%	55%	34%	33%	28%	29%	28%
Tap S.Felipe - Tap S.Rafael 110kV L1	42%	44%	21%	19%	15%	13%	14%
Tap S.Felipe - Tap S.Rafael 110kV L2	34%	36%	14%	12%	10%	7%	9%
Tap San Felipe - San Felipe 110kV C1	52%	55%	56%	58%	59%	63%	63%
Tap San Felipe - San Felipe 110kV C2	29%	30%	30%	31%	32%	34%	34%
Tap San Felipe - Tap San Rafael 44 kV C1	8%	8%	8%	8%	13%	14%	14%
Tap San Felipe - Tap San Rafael 44 kV C2	8%	9%	9%	9%	11%	12%	12%
Tap San José - San José 110 kV L1	19%	20%	21%	22%	22%	27%	24%
Tap San José - San José 110 kV L2	11%	12%	12%	13%	13%	16%	14%
Tap San Rafael - FFCC Los Andes 44 kV C1	8%	8%	8%	9%	13%	14%	14%
Tap San Rafael - FFCC Los Andes 44 kV C2	8%	8%	8%	9%	11%	12%	12%
Tap San Rafael - San Rafael 110kV C1	61%	65%	66%	68%	70%	74%	75%
Tap San Rafael - San Rafael 110kV C2	23%	24%	25%	26%	26%	28%	28%
Tap San Rafael - Totoralillo 110 kV L2	82%	87%	53%	50%	43%	45%	44%
Tap San Sebastian-San Sebastian 66 kV L1	21%	22%	23%	24%	23%	25%	25%
Tap San Sebastian-San Sebastian 66 kV L2	21%	22%	22%	23%	25%	27%	27%
Tap Valparaiso - Valparaiso 110 kV C1	50%	53%	55%	57%	60%	64%	64%
Tap Valparaiso - Valparaiso 110 kV C2	28%	30%	31%	32%	34%	36%	36%
Torquemada - Miraflores 110 kV C1	23%	24%	28%	27%	19%	10%	11%

Torquemada - Miraflores 110 kV C2	23%	24%	28%	27%	19%	10%	11%
Torquemada - Con Con 110 kV L1	39%	42%	46%	46%	51%	40%	40%
Torquemada - Con Con 110 kV L2	39%	42%	46%	46%	51%	40%	40%
Torre 54-B - Placeres L1	65%	69%	68%	72%	50%	45%	46%
Torre 54-B - Placeres L2	55%	58%	56%	60%	40%	35%	35%
Totalillo - Tap Los Maquis 110kV L2	53%	56%	27%	24%	17%	19%	18%
VENTANAS - QUINTERO 110KV C1	16%	17%	18%	18%	19%	21%	21%
Ventanas - Torquemada 110 kV C1	43%	46%	52%	52%	46%	29%	29%
Ventanas - Torquemada 110 kV C2	43%	46%	52%	52%	46%	29%	29%
Ventanas - Nogales 220 kV C1	23%	24%	29%	29%	27%	25%	23%
Ventanas - Nogales 220 kV C2	23%	24%	29%	29%	27%	25%	23%
Ventanas - Tap ENAMI 110kV L1	35%	36%	38%	38%	36%	23%	22%
Ventanas - Tap ENAMI 110kV L2	35%	36%	38%	38%	36%	23%	22%

Tabla 6.4.25. Cargabilidad de líneas de transmisión en escenario Verano Noche, Zona Norte Quinta.

Líneas	2019	2020	2021	2022	2023	2024	2025
A.Santa - Torre 54-B 110 kV L1	33%	35%	35%	37%	26%	23%	23%
A.Santa - Torre 54-B 110 kV L2	33%	35%	35%	36%	25%	23%	23%
Aconcagua - Saladillo 66 kV L1	0%	0%	0%	0%	0%	0%	0%
Aconcagua - Saladillo 66 kV L2	0%	0%	0%	0%	0%	0%	0%
Agua Santa - Miraflores 110 kV C1	29%	30%	23%	24%	27%	46%	46%
Agua Santa - Miraflores 110 kV C2	29%	30%	23%	24%	27%	46%	46%
Agua Santa - Placilla 110 kV	18%	19%	20%	10%	11%	12%	12%
Algarrobo Norte - Litoral 66 kV L1	62%	65%	59%	64%	28%	27%	28%
Algarrobo Norte - Litoral 66 kV L2	64%	67%	60%	66%	29%	28%	29%
Alto Melipilla - Leyda 110 kV	38%	40%	44%	44%	40%	44%	43%
Alto Melipilla - San Antonio 110 kV	34%	36%	40%	40%	36%	39%	39%

Catemu - Los Angeles 44 kV	32%	34%	34%	36%	38%	43%	42%
Chagres - Catemu 44 kV	120%	126%	126%	131%	141%	157%	153%
Colmito - Torquemada 110kV	0%	0%	0%	0%	0%	0%	0%
Con Con - Bosquemar 110 kV	7%	7%	7%	8%	4%	4%	4%
El Melón - Túnel El Melón 44kV	1%	1%	1%	1%	1%	2%	1%
Esperanza - Chagres 110 kV L2	13%	14%	46%	45%	0%	0%	0%
Esperanza - Tap Chagres 110 kV L1	14%	14%	46%	45%	0%	0%	0%
FFCC Los Andes - Riecillos 44 kV C1	2%	2%	2%	2%	2%	2%	2%
FFCC Los Andes - Riecillos 44 kV C2	2%	2%	2%	2%	2%	2%	2%
L. Verde - Quintay 66 kV L1	66%	69%	63%	69%	32%	32%	33%
L. Verde - Quintay 66 kV L2	68%	71%	65%	71%	34%	33%	34%
LAS VEGAS - CRISTALERIA CHILE 110KV C1	18%	19%	18%	18%	19%	20%	19%
La Calera - El Cobre 110 kV	44%	46%	46%	45%	47%	49%	47%
La Calera - El Melón 44kV	39%	41%	41%	43%	45%	50%	49%
La Calera - La Calera Centro 62 kV	21%	23%	22%	22%	23%	24%	23%
Las Piñatas - Tap El Manzano 66 kV	40%	42%	44%	45%	46%	49%	49%
Las Vegas - Esperanza 110 kV	28%	30%	0	0%	0%	0%	0%
Las Vegas - Tap Chagres 44 kV C1	62%	66%	66%	69%	52%	58%	56%
Las Vegas - Tap Chagres 44 kV C2	26%	27%	27%	28%	52%	58%	56%
Litoral - San Sebastian 66 kV L1	22%	23%	20%	18%	22%	21%	23%
Litoral - San Sebastian 66 kV L2	22%	23%	20%	18%	24%	22%	25%
Los Maquis - Cordillera 220 kV	23%	24%	26%	26%	26%	27%	26%
Los Maquis - Hornitos 220 kV	22%	23%	13%	13%	13%	15%	13%
Los Quilos - Aconcagua 66 kV	13%	14%	16%	16%	16%	16%	16%
Los Quilos - Los Maquis 110 kV	28%	29%	27%	27%	28%	27%	28%
Miraflores - Marga Marga 110 kV L1	39%	41%	43%	45%	47%	50%	50%
Miraflores - Marga Marga 110 kV L2	36%	38%	39%	40%	42%	46%	45%
Miraflores - Tap Quilpue 110 kV L1	52%	55%	34%	35%	45%	50%	47%

Quintay - Algarrobo Norte 66 kV L1	65%	68%	62%	68%	32%	31%	32%
Quintay - Algarrobo Norte 66 kV L2	65%	68%	62%	68%	32%	31%	32%
Riecillos - Río Blanco 44 kV C1	2%	2%	2%	2%	3%	3%	3%
Riecillos - Río Blanco 44 kV C2	1%	1%	1%	1%	1%	1%	1%
Río Blanco 44 kV - Juncal 44 kV C1	1%	1%	1%	1%	1%	1%	1%
Río Blanco 44 kV - Juncal 44 kV C2	1%	1%	1%	1%	1%	1%	1%
S/E Chagres - Tap San Felipe 44 kV C1	8%	8%	8%	9%	13%	15%	14%
S/E Chagres - Tap San Felipe 44 kV C2	34%	36%	36%	38%	37%	42%	41%
SAN PEDRO - PEÑABLANCA 110KV C2	17%	17%	18%	19%	16%	17%	18%
San Antonio - Leyda 110 kV	28%	30%	33%	34%	30%	32%	32%
Quillota - San Pedro 110 kV	27%	29%	11%	18%	41%	72%	70%
San Jerónimo - Las Piñatas 66 kV	43%	46%	48%	49%	50%	54%	53%
San Luis - Agua Santa 220 kV L1	19%	21%	17%	18%	28%	37%	40%
San Luis - Agua Santa 220 kV L2	19%	21%	17%	18%	28%	37%	40%
San Pedro - Pachacama 110 kV L1	26%	27%	14%	17%	32%	37%	33%
San Pedro - Pachacama 110 kV L2	29%	30%	17%	20%	36%	41%	37%
San Pedro - Tap Quilpue 110 kV L1	41%	43%	40%	41%	31%	31%	34%
San Pedro Antigua - FFCC San Pedro 44 kV	0%	0%	0%	0%	0%	0%	0%
San Sebastian - San Antonio 66 kV L1	25%	27%	29%	27%	20%	19%	21%
San Sebastian - San Antonio 66 kV L2	25%	27%	29%	27%	20%	19%	21%
TAP SAN FELIPE - SAN FELIPE 44KV C1	0%	0%	0%	0%	0%	0%	0%
TAP SAN FELIPE - SAN FELIPE 44KV C2	0%	0%	0%	0%	0%	0%	0%
TORQUEMADA - MAUCO 110KV C1	1%	1%	1%	1%	1%	1%	1%
TORQUEMADA - MAUCO 110KV C2	1%	1%	1%	1%	1%	1%	1%
Tap Achupallas - Miraflores 110 kV L2	50%	52%	44%	44%	40%	56%	57%
Tap Achupallas - Tap Reñaca 110 kV	38%	40%	48%	47%	47%	27%	31%
Tap Algarrobo - San Jeronimo	53%	56%	58%	60%	61%	66%	65%
Tap Caleu - Rungue 44 kV C1	5%	5%	5%	5%	6%	6%	6%

Tap Caleu - Rungue 44 kV C2	5%	5%	5%	5%	6%	6%	6%
Tap Casa Blanca - Casa Blanca 66 L1 kV	69%	73%	77%	78%	22%	25%	24%
Tap Casa Blanca - Casa Blanca 66 L2 kV	1%	1%	1%	1%	24%	27%	27%
Tap Chagres - Chagres 110 kV	0%	0%	0%	0%	0%	0%	0%
Tap Chagres - Tap S. Felipe 110 kV L1	14%	15%	16%	19%	16%	16%	17%
Tap El Manzano - El Totoral 66 kV	14%	15%	16%	16%	16%	18%	18%
Tap El Manzano - Las Balandras 66 kV	24%	25%	27%	28%	28%	30%	30%
Tap Entel - Tap Caleu 44 kV C1	5%	5%	5%	5%	6%	6%	6%
Tap Entel - Tap Caleu 44 kV C2	4%	5%	5%	5%	5%	6%	6%
Tap Los Llanos - Los Maquis 220 kV	6%	6%	2%	2%	1%	4%	1%
Tap Los Maquis - Aconcagua 110kV L1	34%	36%	23%	23%	23%	25%	23%
Tap Los Maquis - Aconcagua 110kV L2	34%	35%	23%	23%	23%	24%	23%
Tap Los Maquis - Los Maquis 110kV L1	20%	21%	11%	10%	5%	7%	5%
Tap Los Maquis - Los Maquis 110kV L2	11%	11%	4%	7%	14%	13%	13%
Tap Mayaca - Mayaca L1	11%	11%	11%	11%	12%	13%	12%
Tap Mayaca - Mayaca L2	7%	7%	7%	7%	7%	7%	6%
Tap Pachacama - Cerro Calera 110 kV L1	49%	52%	51%	51%	53%	57%	55%
Tap Pachacama - Cerro Calera 110 kV L2	61%	64%	64%	66%	69%	75%	73%
Tap Peñablanca 1 - Peñablanca	9%	9%	10%	10%	9%	9%	10%
Tap Peñablanca 2 - Peñablanca	7%	7%	4%	4%	4%	5%	4%
Tap Placeres - Placeres 110 kV L1	17%	18%	18%	19%	19%	21%	21%
Tap Placeres - Placeres 110 kV L2	15%	16%	17%	18%	19%	20%	20%
Tap Playa Ancha - L. Verde 110 kV L2	41%	43%	36%	39%	19%	18%	19%
Tap Playa Ancha - Playa Ancha 110 kV L1	6%	6%	7%	7%	7%	8%	8%
Tap Playa Ancha - Playa Ancha 110 kV L2	17%	18%	18%	19%	20%	21%	21%
Tap Quilpue - Quilpue 110 kV C1	49%	52%	54%	56%	58%	63%	63%
Tap Quilpue - Quilpue 110 kV C2	29%	31%	32%	33%	34%	36%	36%
Tap Quilpue - Tap Achupallas 110 kV L2	37%	39%	30%	31%	39%	42%	40%

Tap Quintay - Quintay L1	1%	1%	1%	1%	1%	1%	1%
Tap Quintay - Quintay L2	1%	1%	1%	1%	1%	1%	1%
Tap Reñaca - Con Con 110 kV	72%	75%	86%	86%	43%	27%	27%
Tap Reñaca - Reñaca 110 kV	45%	48%	50%	52%	54%	58%	58%
Tap S. Rafael - Tap Los Maquis 110 kV L1	49%	52%	32%	31%	26%	28%	27%
Tap S.Felipe - Tap S.Rafael 110kV L1	40%	42%	20%	18%	14%	13%	13%
Tap S.Felipe - Tap S.Rafael 110kV L2	32%	34%	13%	11%	9%	6%	9%
Tap San Felipe - San Felipe 110kV C1	49%	52%	52%	54%	56%	59%	59%
Tap San Felipe - San Felipe 110kV C2	27%	28%	28%	30%	30%	32%	32%
Tap San Felipe - Tap San Rafael 44 kV C1	7%	8%	8%	8%	12%	13%	13%
Tap San Felipe - Tap San Rafael 44 kV C2	8%	8%	8%	9%	11%	12%	12%
Tap San Rafael - FFCC Los Andes 44 kV C1	7%	8%	8%	8%	12%	13%	13%
Tap San Rafael - FFCC Los Andes 44 kV C2	8%	8%	8%	8%	10%	11%	11%
Tap San Rafael - San Rafael 110kV C1	58%	61%	62%	64%	66%	70%	70%
Tap San Rafael - San Rafael 110kV C2	22%	23%	23%	24%	25%	26%	26%
Tap San Rafael - Totalillo 110 kV L2	78%	82%	50%	47%	41%	43%	42%
Tap San Sebastian-San Sebastian 66 kV L1	19%	20%	22%	23%	22%	24%	23%
Tap San Sebastian-San Sebastian 66 kV L2	19%	20%	21%	22%	23%	25%	25%
Tap Valparaiso - Valparaiso 110 kV C1	47%	50%	52%	54%	56%	60%	60%
Tap Valparaiso - Valparaiso 110 kV C2	27%	28%	29%	30%	32%	34%	34%
Torquemada - Miraflores 110 kV C1	21%	22%	26%	26%	18%	9%	10%
Torquemada - Miraflores 110 kV C2	21%	22%	26%	26%	18%	9%	10%
Torquemada - Con Con 110 kV L1	37%	39%	43%	44%	47%	38%	37%
Torquemada - Con Con 110 kV L2	37%	39%	43%	44%	47%	38%	37%
Torre 54-B – Placeres L1	61%	64%	64%	67%	47%	43%	43%
Torre 54-B – Placeres L2	52%	54%	53%	56%	37%	33%	33%
Totalillo - Tap Los Maquis 110kV L2	50%	53%	25%	22%	16%	18%	17%
VENTANAS - QUINTERO 110KV C1	15%	16%	17%	17%	18%	20%	20%

Ventanas - Torquemada 110 kV C1	41%	43%	49%	49%	43%	27%	27%
Ventanas - Torquemada 110 kV C2	41%	43%	49%	49%	43%	27%	27%
Ventanas - Nogales 220 kV C1	21%	23%	27%	27%	25%	23%	21%
Ventanas - Nogales 220 kV C2	21%	23%	27%	27%	25%	23%	21%
Ventanas - Tap ENAMI 110kV L1	32%	34%	36%	36%	34%	22%	20%
Ventanas - Tap ENAMI 110kV L2	32%	34%	36%	36%	34%	22%	20%

Tabla 6.4.26. Cargabilidad de líneas de transmisión en escenario Invierno Día, Zona Norte Quinta.

Líneas	2019	2020	2021	2022	2023	2024	2025
A.Santa - Torre 54-B 110 kV L1	31%	34%	35%	36%	21%	19%	19%
A.Santa - Torre 54-B 110 kV L2	32%	34%	34%	36%	20%	19%	19%
Aconcagua - Saladillo 66 kV L1	0%	0%	0%	0%	0%	0%	0%
Aconcagua - Saladillo 66 kV L2	0%	0%	0%	0%	0%	0%	0%
Agua Santa - Miraflores 110 kV C1	19%	20%	17%	19%	26%	39%	39%
Agua Santa - Miraflores 110 kV C2	19%	20%	17%	19%	26%	39%	39%
Agua Santa - Placilla 110 kV	22%	23%	24%	13%	13%	14%	14%
Algarrobo Norte - Litoral 66 kV L1	31%	33%	25%	28%	10%	6%	6%
Algarrobo Norte - Litoral 66 kV L2	31%	34%	25%	29%	10%	6%	6%
Alto Melipilla - Leyda 110 kV	31%	33%	36%	36%	30%	32%	32%
Alto Melipilla - San Antonio 110 kV	30%	33%	35%	35%	29%	31%	32%
Catemu - Los Angeles 44 kV	19%	20%	20%	21%	22%	23%	23%
Chagres - Catemu 44 kV	50%	54%	54%	56%	58%	60%	61%
Colmito - Torquemada 110kV	0%	0%	0%	0%	0%	0%	0%
Con Con - Bosquemar 110 kV	10%	11%	11%	11%	6%	6%	6%
El Melón - Túnel El Melón 44kV	1%	1%	1%	1%	2%	2%	2%
Esperanza - Chagres 110 kV L2	11%	12%	54%	54%	56%	64%	66%
Esperanza - Tap Chagres 110 kV L1	20%	22%	54%	54%	56%	64%	66%
FFCC Los Andes - Riecillos 44 kV C1	3%	3%	3%	3%	3%	3%	3%

FFCC Los Andes - Riecillos 44 kV C2	3%	3%	3%	3%	3%	3%	3%
Juncal 44 kV - Hnos. Clark 44 kV C1	0%	0%	0%	0%	0%	0%	0%
Juncal 44 kV - Hnos. Clark 44 kV C2	0%	0%	0%	0%	0%	0%	0%
L. Verde - Quintay 66 kV L1	33%	36%	28%	31%	13%	9%	10%
L. Verde - Quintay 66 kV L2	34%	37%	29%	32%	13%	10%	10%
LAS VEGAS - CRISTALERIA CHILE 110KV C1	17%	18%	18%	19%	20%	20%	21%
La Calera - El Cobre 110 kV	20%	21%	21%	22%	23%	24%	24%
La Calera - El Melón 44kV	26%	28%	28%	29%	30%	31%	32%
La Calera - La Calera Centro 62 kV	13%	13%	14%	14%	15%	15%	15%
La Calera - Tap Pachacama 44 kV C1	1%	1%	1%	1%	1%	1%	1%
La Calera - Tap Pachacama 44 kV C2	1%	1%	1%	1%	1%	1%	1%
La Calera Centro - Esperanza 66 kV L1	1%	1%	1%	1%	1%	1%	1%
La Calera Centro - Esperanza 66 kV L2	1%	1%	1%	1%	1%	1%	1%
Las Piñatas - Tap El Manzano 66 kV	31%	34%	36%	37%	38%	39%	40%
Las Vegas - Esperanza 110 kV	29%	31%	0%	0%	0%	0%	0%
Las Vegas - Tap Chagres 44 kV C1	26%	28%	28%	29%	19%	20%	20%
Las Vegas - Tap Chagres 44 kV C2	7%	8%	8%	8%	19%	20%	20%
Las Vegas - Tap Vichiculén 44 kV C1	6%	7%	7%	7%	7%	8%	8%
Las Vegas - Tap Vichiculén 44 kV C2	6%	7%	7%	7%	7%	7%	7%
Litoral - San Sebastian 66 kV L1	27%	29%	23%	21%	13%	12%	11%
Litoral - San Sebastian 66 kV L2	27%	29%	22%	20%	14%	12%	12%
Los Maquis - Cordillera 220 kV	23%	25%	26%	26%	26%	26%	26%
Los Maquis - Hornitos 220 kV	21%	23%	23%	23%	23%	23%	23%
Los Quilos - Aconcagua 66 kV	13%	14%	14%	14%	13%	13%	13%
Los Quilos - Los Maquis 110 kV	27%	29%	29%	29%	28%	28%	28%
Miraflores - Marga Marga 110 kV L1	43%	47%	48%	50%	52%	54%	54%
Miraflores - Marga Marga 110 kV L2	39%	42%	44%	45%	47%	49%	49%
Miraflores - Tap Quilpue 110 kV L1	25%	27%	17%	18%	20%	20%	21%

Miraflores - Tap Quilpue 110 kV L1_a	25%	27%	17%	17%	20%	20%	20%
Quintay - Algarrobo Norte 66 kV L1	32%	35%	27%	31%	12%	9%	9%
Quintay - Algarrobo Norte 66 kV L1	32%	35%	27%	31%	12%	9%	9%
Quintero - GNL Quintero 110 kV	0%	0%	0%	0%	0%	0%	0%
Riecillos - Río Blanco 44 kV C1	3%	3%	3%	3%	4%	4%	4%
Riecillos - Río Blanco 44 kV C2	2%	2%	2%	2%	2%	2%	2%
Río Blanco 44 kV - Juncal 44 kV C1	1%	1%	1%	1%	1%	1%	1%
Río Blanco 44 kV - Juncal 44 kV C2	2%	2%	2%	2%	2%	2%	2%
S/E Chagres - Tap San Felipe 44 kV C1	3%	3%	3%	3%	5%	6%	6%
S/E Chagres - Tap San Felipe 44 kV C2	9%	10%	10%	11%	9%	9%	9%
SAN PEDRO - PEÑABLANCA 110KV C2	19%	21%	26%	26%	24%	26%	26%
San Antonio - Leyda 110 kV	29%	31%	33%	34%	28%	30%	30%
Quillota - San Pedro 110 kV	25%	27%	16%	20%	24%	43%	44%
San Jerónimo - Las Piñatas 66 kV	35%	37%	39%	41%	42%	43%	44%
San Luis - Agua Santa 220 kV L1	17%	18%	17%	19%	13%	16%	17%
San Luis - Agua Santa 220 kV L2	17%	18%	17%	19%	13%	16%	17%
San Pedro - Pachacama 110 kV L1	20%	22%	9%	10%	10%	6%	6%
San Pedro - Pachacama 110 kV L2	23%	25%	10%	12%	12%	7%	7%
San Pedro - Tap Quilpue 110 kV L1	37%	40%	54%	55%	46%	52%	52%
San Pedro Antigua - FFCC San Pedro 44 kV	0%	0%	0%	0%	0%	0%	0%
San Sebastian - San Antonio 66 kV L1	35%	37%	35%	33%	16%	17%	17%
San Sebastian - San Antonio 66 kV L2	34%	37%	34%	33%	16%	18%	18%
TAP SAN FELIPE - SAN FELIPE 44KV C1	0%	0%	0%	0%	0%	0%	0%
TAP SAN FELIPE - SAN FELIPE 44KV C2	0%	0%	0%	0%	0%	0%	0%
TORQUEMADA - MAUCO 110KV C1	1%	1%	1%	1%	1%	1%	1%
TORQUEMADA - MAUCO 110KV C2	1%	1%	1%	1%	1%	1%	1%
Tap Achupallas - Miraflores 110 kV L2	32%	35%	28%	29%	35%	35%	35%
Tap Achupallas - Tap Reñaca 110 kV	0%	0%	0%	0%	0%	0%	0%

Tap Algarrobo - San Jeronimo	41%	44%	46%	48%	49%	51%	52%
Tap Caleu - Rungue 44 kV C1	6%	6%	6%	6%	6%	7%	7%
Tap Caleu - Rungue 44 kV C2	6%	6%	6%	7%	7%	7%	7%
Tap Casa Blanca - Casa Blanca 66 L1 kV	35%	38%	40%	41%	36%	40%	40%
Tap Casa Blanca - Casa Blanca 66 L2 kV	1%	1%	1%	1%	1%	1%	1%
Tap Chagres - Chagres 110 kV	0%	0%	0%	0%	0%	0%	0%
Tap Chagres - Tap S. Felipe 110 kV L1	20%	22%	14%	14%	8%	9%	8%
Tap El Manzano - El Totoral 66 kV	8%	9%	9%	9%	10%	10%	10%
Tap El Manzano - Las Balandras 66 kV	23%	24%	26%	27%	27%	29%	29%
Tap Entel - Tap Caleu 44 kV C1	6%	6%	6%	6%	6%	7%	7%
Tap Entel - Tap Caleu 44 kV C2	6%	6%	6%	7%	7%	7%	7%
Tap Los Maquis - Aconcagua 110kV L1	32%	35%	35%	35%	35%	35%	35%
Tap Los Maquis - Aconcagua 110kV L2	32%	35%	34%	34%	34%	34%	35%
Tap Los Maquis - Los Maquis 110kV L1	10%	11%	7%	6%	7%	10%	11%
Tap Los Maquis - Los Maquis 110kV L2	11%	12%	12%	15%	14%	11%	10%
Tap Mayaca - Mayaca L1	11%	12%	12%	12%	12%	12%	12%
Tap Mayaca - Mayaca L2	6%	6%	6%	6%	6%	6%	6%
Tap Pachacama - Cerro Calera 110 kV L1	25%	26%	27%	28%	29%	30%	30%
Tap Pachacama - Cerro Calera 110 kV L2	38%	41%	42%	43%	45%	46%	47%
Tap Peñablanca 1 - Peñablanca	11%	11%	14%	15%	13%	14%	15%
Tap Peñablanca 2 - Peñablanca	3%	3%	4%	4%	3%	3%	3%
Tap Placeres - Placeres 110 kV L1	33%	35%	35%	37%	38%	39%	40%
Tap Placeres - Placeres 110 kV L2	30%	33%	35%	36%	37%	39%	39%
Tap Playa Ancha - L. Verde 110 kV L2	24%	25%	16%	18%	8%	6%	6%
Tap Playa Ancha - Playa Ancha 110 L1	15%	16%	17%	18%	18%	19%	19%
Tap Playa Ancha - Playa Ancha 110 kV L2	21%	22%	23%	24%	25%	26%	26%
Tap Quilpue - Quilpue 110 kV C1	49%	52%	54%	56%	58%	60%	61%
Tap Quilpue - Quilpue 110 kV C2	35%	37%	39%	40%	41%	43%	44%

Tap Quilpue - Tap Achupallas 110 kV L2	32%	35%	28%	29%	35%	35%	35%
Tap Quintay - Quintay L1	0%	1%	1%	1%	1%	1%	1%
Tap Quintay - Quintay L2	1%	1%	1%	1%	1%	1%	1%
Tap Reñaca - Con Con 110 kV	57%	61%	63%	66%	31%	32%	33%
Tap Reñaca - Reñaca 110 kV	57%	61%	63%	66%	68%	71%	72%
Tap S. Rafael - Tap Los Maquis 110 kV L1	40%	43%	39%	39%	40%	43%	43%
Tap S.Felipe - Tap S.Rafael 110kV L1	33%	36%	24%	22%	22%	24%	24%
Tap S.Felipe - Tap S.Rafael 110kV L2	32%	34%	26%	24%	24%	26%	26%
Tap San Felipe - San Felipe 110kV C1	25%	27%	27%	28%	29%	30%	30%
Tap San Felipe - San Felipe 110kV C2	30%	32%	32%	34%	35%	36%	36%
Tap San Felipe - Tap San Rafael 44 kV C1	2%	2%	2%	3%	4%	5%	5%
Tap San Felipe - Tap San Rafael 44 kV C2	3%	4%	4%	4%	2%	2%	2%
Tap San Rafael - FFCC Los Andes 44 kV C1	2%	2%	2%	2%	4%	5%	5%
Tap San Rafael - FFCC Los Andes 44 kV C2	3%	3%	3%	3%	2%	2%	2%
Tap San Rafael - San Rafael 110kV C1	60%	64%	65%	67%	69%	72%	73%
Tap San Rafael - San Rafael 110kV C2	14%	15%	15%	16%	16%	17%	17%
Tap San Rafael - Totalillo 110 kV L2	78%	84%	61%	58%	59%	62%	63%
Tap San Sebastian-San Sebastian 66 kV L1	18%	19%	20%	21%	20%	21%	21%
Tap San Sebastian-San Sebastian 66 kV L2	15%	17%	17%	18%	20%	21%	21%
Tap Valparaiso - Valparaiso 110 kV C1	41%	44%	46%	48%	49%	51%	52%
Tap Valparaiso - Valparaiso 110 kV C2	22%	24%	24%	25%	26%	27%	28%
Torquemada - Miraflores 110 kV C1	28%	30%	30%	29%	23%	9%	9%
Torquemada - Miraflores 110 kV C2	28%	30%	30%	29%	23%	9%	9%
Torquemada - Con Con 110 kV L1	30%	32%	34%	35%	36%	37%	38%
Torquemada - Con Con 110 kV L2	30%	32%	34%	35%	36%	37%	38%
Totalillo - Tap Los Maquis 110kV L2	52%	56%	33%	30%	31%	34%	35%
VENTANAS - QUINTERO 110KV C1	10%	11%	11%	12%	12%	13%	13%
Ventanas - Torquemada 110 kV C1	43%	46%	47%	47%	41%	27%	27%

Ventanas - Torquemada 110 kV C2	43%	46%	47%	47%	41%	27%	27%
Ventanas - Nogales 220 kV C1	23%	24%	26%	25%	26%	21%	21%
Ventanas - Nogales 220 kV C2	23%	24%	26%	25%	26%	21%	21%
Ventanas - Tap ENAMI 110kV L1	33%	36%	32%	32%	29%	15%	16%
Ventanas - Tap ENAMI 110kV L2	33%	36%	32%	32%	29%	15%	16%

Tabla 6.4.27. Cargabilidad de líneas de transmisión en escenario Invierno Noche, Zona Norte Quinta.

Línea	2019	2020	2021	2022	2023	2024	2025
A.Santa - Torre 54-B 110 kV L1	34%	37%	38%	40%	22%	20%	21%
A.Santa - Torre 54-B 110 kV L2	34%	37%	37%	39%	22%	20%	21%
Aconcagua - Saladillo 66 kV L1	0%	0%	0%	0%	0%	0%	0%
Aconcagua - Saladillo 66 kV L2	0%	0%	0%	0%	0%	0%	0%
Agua Santa - Miraflores 110 kV C1	20%	22%	18%	20%	28%	42%	42%
Agua Santa - Miraflores 110 kV C2	20%	22%	18%	20%	28%	42%	42%
Agua Santa - Placilla 110 kV	24%	25%	26%	14%	14%	15%	15%
Algarrobo Norte - Litoral 66 kV L1	33%	36%	27%	30%	11%	6%	7%
Algarrobo Norte - Litoral 66 kV L2	34%	37%	28%	31%	11%	7%	7%
Alto Melipilla - Leyda 110 kV	34%	36%	39%	39%	33%	35%	35%
Alto Melipilla - San Antonio 110 kV	33%	35%	38%	38%	32%	34%	34%
Catemu - Los Angeles 44 kV	20%	22%	22%	23%	24%	25%	25%
Chagres - Catemu 44 kV	55%	59%	59%	61%	63%	66%	67%
Colmito - Torquemada 110kV	0%	0%	0%	0%	0%	0%	0%
Con Con - Bosquemar 110 kV	11%	11%	12%	12%	6%	7%	7%
El Melón - Túnel El Melón 44kV	1%	2%	2%	2%	2%	2%	2%
Esperanza - Chagres 110 kV L2	12%	13%	59%	58%	60%	70%	72%
Esperanza - Tap Chagres 110 kV L1	22%	23%	59%	58%	60%	70%	72%
FFCC Los Andes - Riecillos 44 kV C1	3%	3%	3%	3%	3%	3%	3%
FFCC Los Andes - Riecillos 44 kV C2	3%	3%	3%	3%	3%	3%	3%

Juncal 44 kV - Hnos. Clark 44 kV C1	0%	0%	0%	0%	0%	0%	0%
Juncal 44 kV - Hnos. Clark 44 kV C2	0%	0%	0%	0%	0%	0%	0%
L. Verde - Quintay 66 kV L1	36%	39%	30%	34%	14%	10%	11%
L. Verde - Quintay 66 kV L2	37%	40%	31%	35%	15%	11%	11%
LAS VEGAS - CRISTALERIA CHILE 110KV C1	18%	20%	20%	21%	21%	22%	22%
La Calera - El Cobre 110 kV	21%	23%	23%	24%	25%	26%	26%
La Calera - El Melón 44kV	28%	30%	31%	32%	33%	34%	35%
La Calera - La Calera Centro 62 kV	14%	15%	15%	15%	16%	17%	17%
La Calera - Tap Pachacama 44 kV C1	1%	1%	1%	1%	1%	1%	1%
La Calera - Tap Pachacama 44 kV C2	1%	1%	1%	1%	1%	1%	1%
La Calera Centro - Esperanza 66 kV L1	1%	1%	1%	1%	1%	1%	1%
La Calera Centro - Esperanza 66 kV L2	1%	1%	1%	1%	1%	1%	1%
Las Piñatas - Tap El Manzano 66 kV	34%	37%	39%	40%	41%	43%	43%
Las Vegas - Esperanza 110 kV	31%	34%	0	0	0	0	0%
Las Vegas - Tap Chagres 44 kV C1	28%	30%	30%	31%	21%	22%	22%
Las Vegas - Tap Chagres 44 kV C2	8%	8%	8%	9%	21%	22%	22%
Litoral - San Sebastian 66 kV L1	29%	31%	24%	23%	14%	13%	12%
Litoral - San Sebastian 66 kV L2	30%	32%	24%	22%	15%	13%	13%
Los Maquis - Cordillera 220 kV	25%	27%	28%	28%	28%	28%	29%
Los Maquis - Hornitos 220 kV	23%	25%	25%	25%	25%	25%	25%
Los Quilos - Aconcagua 66 kV	14%	15%	15%	15%	14%	15%	15%
Los Quilos - Los Maquis 110 kV	29%	31%	31%	31%	31%	31%	31%
Miraflores - Marga Marga 110 kV L1	47%	51%	52%	54%	56%	58%	59%
Miraflores - Marga Marga 110 kV L2	43%	46%	47%	49%	51%	53%	54%
Miraflores - Tap Quilpue 110 kV L1	27%	29%	19%	19%	22%	22%	22%
Miraflores - Tap Quilpue 110 kV L2	27%	29%	18%	19%	22%	22%	22%
Quintay - Algarrobo Norte 66 kV L1	35%	38%	30%	33%	13%	9%	10%
Quintay - Algarrobo Norte 66 kV L1	35%	38%	30%	33%	13%	9%	10%

Riecillos - Río Blanco 44 kV C1	3%	4%	4%	4%	4%	4%	4%
Riecillos - Río Blanco 44 kV C2	2%	2%	2%	2%	2%	2%	2%
Río Blanco 44 kV - Juncal 44 kV C1	1%	1%	1%	1%	2%	2%	2%
Río Blanco 44 kV - Juncal 44 kV C2	2%	2%	2%	2%	2%	2%	2%
S/E Chagres - Tap San Felipe 44 kV C1	3%	3%	4%	4%	6%	6%	6%
S/E Chagres - Tap San Felipe 44 kV C2	10%	11%	11%	11%	9%	10%	10%
SAN PEDRO - PEÑABLANCA 110KV C2	21%	23%	28%	29%	26%	28%	29%
San Antonio - Leyda 110 kV	32%	34%	36%	37%	30%	32%	33%
Quillota - San Pedro 110 kV	28%	30%	17%	22%	26%	46%	47%
San Jerónimo - Las Piñatas 66 kV	38%	41%	43%	44%	45%	47%	48%
San Luis - Agua Santa 220 kV L1	18%	20%	19%	21%	15%	17%	18%
San Luis - Agua Santa 220 kV L2	18%	20%	19%	21%	15%	17%	18%
San Pedro - Pachacama 110 kV L1	22%	23%	10%	11%	11%	7%	7%
San Pedro - Pachacama 110 kV L2	25%	27%	11%	13%	13%	7%	8%
San Pedro - Tap Quilpue 110 kV L1	41%	44%	58%	60%	50%	56%	57%
San Sebastian - San Antonio 66 kV L1	38%	41%	38%	36%	17%	19%	18%
San Sebastian - San Antonio 66 kV L2	37%	40%	37%	36%	18%	19%	19%
TAP SAN FELIPE - SAN FELIPE 44KV C1	0%	0%	0%	0%	0%	0%	0%
TAP SAN FELIPE - SAN FELIPE 44KV C2	0%	0%	0%	0%	0%	0%	0%
TORQUEMADA - MAUCO 110KV C1	1%	1%	1%	1%	1%	1%	1%
TORQUEMADA - MAUCO 110KV C2	1%	1%	1%	1%	1%	1%	1%
Tap Achupallas - Miraflores 110 kV L2	35%	38%	30%	32%	38%	38%	38%
Tap Algarrobo - San Jeronimo	44%	47%	50%	52%	53%	55%	56%
Tap Caleu - Rungue 44 kV C1	6%	6%	6%	7%	7%	7%	7%
Tap Caleu - Rungue 44 kV C2	7%	7%	7%	7%	8%	8%	8%
Tap Casa Blanca - Casa Blanca 66 L1 kV	38%	41%	43%	45%	40%	43%	43%
Tap Casa Blanca - Casa Blanca 66 L2 kV	1%	1%	1%	1%	1%	1%	1%
Tap Chagres - Chagres 110 kV	0%	0%	0%	0%	0%	0%	0%

Tap Chagres - Tap S. Felipe 110 kV L1	22%	24%	15%	15%	9%	9%	9%
Tap El Manzano - El Totoral 66 kV	9%	9%	10%	10%	10%	11%	11%
Tap El Manzano - Las Balandras 66 kV	25%	27%	28%	29%	30%	31%	31%
Tap Entel - Tap Caleu 44 kV C1	6%	6%	6%	7%	7%	7%	7%
Tap Entel - Tap Caleu 44 kV C2	7%	7%	7%	7%	8%	8%	8%
Tap Los Maquis - Aconcagua 110kV L1	35%	38%	38%	38%	38%	38%	38%
Tap Los Maquis - Aconcagua 110kV L2	35%	38%	37%	37%	37%	37%	38%
Tap Los Maquis - Los Maquis 110kV L1	11%	12%	7%	7%	8%	11%	12%
Tap Los Maquis - Los Maquis 110kV L2	12%	13%	13%	16%	15%	12%	11%
Tap Mayaca - Mayaca L1	12%	13%	13%	13%	13%	13%	13%
Tap Mayaca - Mayaca L2	6%	7%	7%	7%	7%	7%	7%
Tap Pachacama - Cerro Calera 110 kV L1	27%	29%	29%	30%	31%	32%	33%
Tap Pachacama - Cerro Calera 110 kV L2	42%	45%	45%	47%	48%	51%	51%
Tap Peñablanca 1 - Peñablanca	11%	12%	15%	16%	14%	16%	16%
Tap Peñablanca 2 - Peñablanca	3%	3%	5%	5%	3%	4%	4%
Tap Placeres - Arr. Valpara 110 kV L2	41%	44%	45%	48%	16%	13%	14%
Tap Placeres - Placeres 110 kV L1	36%	38%	39%	40%	41%	43%	43%
Tap Placeres - Placeres 110 kV L2	33%	35%	38%	39%	41%	42%	43%
Tap Playa Ancha - L. Verde 110 kV L2	26%	28%	18%	20%	9%	6%	7%
Tap Playa Ancha - Playa Ancha 110 kV L1	16%	18%	18%	19%	20%	20%	21%
Tap Playa Ancha - Playa Ancha 110 kV L2	23%	24%	25%	26%	27%	28%	28%
Tap Quilpue - Quilpue 110 kV C1	53%	57%	59%	61%	63%	66%	67%
Tap Quilpue - Quilpue 110 kV C2	38%	41%	42%	43%	45%	47%	48%
Tap Quilpue - Tap Achupallas 110 kV L2	35%	38%	31%	32%	38%	38%	38%
Tap Quintay - Quintay L1	1%	1%	1%	1%	1%	1%	1%
Tap Quintay - Quintay L2	1%	1%	1%	1%	1%	1%	1%
Tap Reñaca - Con Con 110 kV	62%	67%	69%	71%	34%	35%	36%
Tap Reñaca - Reñaca 110 kV	62%	67%	69%	72%	74%	77%	78%

Tap S. Rafael - Tap Los Maquis 110 kV L1	44%	47%	43%	43%	43%	46%	47%
Tap S.Felipe - Tap S.Rafael 110kV L1	36%	39%	26%	24%	24%	26%	26%
Tap S.Felipe - Tap S.Rafael 110kV L2	34%	37%	28%	26%	26%	28%	28%
Tap San Felipe - San Felipe 110kV C1	27%	29%	29%	30%	31%	32%	33%
Tap San Felipe - San Felipe 110kV C2	33%	35%	35%	36%	38%	39%	40%
Tap San Felipe - Tap San Rafael 44 kV C1	2%	3%	3%	3%	5%	5%	5%
Tap San Felipe - Tap San Rafael 44 kV C2	4%	4%	4%	4%	2%	3%	3%
Tap San Rafael - San Rafael 110kV C1	65%	70%	70%	73%	76%	79%	80%
Tap San Rafael - San Rafael 110kV C2	15%	16%	17%	17%	18%	19%	19%
Tap San Rafael - Totoralillo 110 kV L2	85%	91%	66%	63%	64%	67%	68%
Tap San Sebastian-San Sebastian 66 kV L1	19%	21%	22%	23%	22%	23%	23%
Tap San Sebastian-San Sebastian 66 kV L2	17%	18%	19%	20%	22%	23%	23%
Tap Valparaiso - Valparaiso 110 kV C1	45%	48%	50%	52%	53%	55%	56%
Tap Valparaiso - Valparaiso 110 kV C2	24%	26%	27%	28%	28%	29%	30%
Torquemada - Miraflores 110 kV C1	31%	33%	33%	32%	25%	9%	9%
Torquemada - Miraflores 110 kV C2	31%	33%	33%	32%	25%	9%	9%
Torquemada - Con Con 110 kV L1	33%	35%	36%	38%	39%	41%	41%
Torquemada - Con Con 110 kV L2	33%	35%	36%	38%	39%	41%	41%
Torre 54-B - Placeres 110kV L1	63%	68%	69%	73%	41%	37%	38%
Torre 54-B - Placeres 110 kV L2	43%	46%	45%	48%	16%	13%	14%
Totoralillo - Tap Los Maquis 110kV L2	56%	60%	36%	33%	34%	37%	38%
VENTANAS - QUINTERO 110KV C1	11%	12%	12%	13%	13%	14%	14%
Ventanas - Torquemada 110 kV C1	47%	51%	51%	51%	44%	29%	29%
Ventanas - Torquemada 110 kV C2	47%	51%	51%	51%	44%	29%	29%
Ventanas - Nogales 220 kV C1	25%	26%	28%	28%	28%	23%	23%
Ventanas - Nogales 220 kV C2	25%	26%	28%	28%	28%	23%	23%
Ventanas - Tap ENAMI 110kV L1	36%	39%	35%	34%	32%	17%	17%
Ventanas - Tap ENAMI 110kV L2	36%	39%	35%	34%	32%	17%	17%

6.4.4 ZONA REGIÓN METROPOLITANA

6.4.4.1 Transformadores AT/MT

Tabla 6.4.28. Cargabilidad de transformadores AT/MT, Zona Región Metropolitana.

Transformador	2019	2020	2021	2022	2023	2024	2025
A. DE CORDOVA 110/12.5KV 20MVA 4R	0%	0%	0%	0%	0%	0%	0%
A. DE CORDOVA 110/12.5KV 50MVA 1	86%	88%	90%	93%	96%	99%	101%
A. DE CORDOVA 110/12.5KV 50MVA 2	73%	75%	77%	79%	81%	84%	86%
A. DE CORDOVA 110/12.5KV 50MVA 3	77%	79%	81%	84%	86%	89%	91%
A. DE CORDOVA 110/12.5KV 50 MVA Nuevo	35%	36%	37%	38%	39%	40%	41%
ALTAMIRANO 110/12.5KV 50MVA 1	76%	47%	49%	50%	51%	53%	54%
ALTAMIRANO 110/12.5KV 50MVA 2	93%	67%	69%	71%	73%	75%	77%
ALTAMIRANO 110/12.5KV 50MVA 1	58%	60%	62%	64%	65%	67%	69%
ALTAMIRANO 110/12KV 25MVA 3 Reserva	0%	0%	0%	0%	0%	0%	0%
ANDES 110/12.5KV 25MVA 2	87%	89%	92%	94%	97%	100%	102%
ANDES 110/12.5KV 50MVA 1	48%	50%	51%	53%	54%	56%	57%
ANDES 110/12.5KV 22,4MVA 4	0%	0%	0%	0%	0%	0%	0%
APOQUINDO 110/12.5KV 22.4MVA 4R	89%	92%	95%	98%	100%	103%	106%
APOQUINDO 110/12.5KV 50MVA 1	89%	91%	94%	97%	99%	102%	105%
APOQUINDO 110/12.5KV 50MVA 2	91%	93%	96%	99%	102%	105%	107%
APOQUINDO 110/12.5KV 50MVA 3	82%	85%	87%	90%	92%	95%	98%
BATUCO 110/23.5KV 37.5MVA 1	65%	66%	68%	70%	72%	74%	76%
BATUCO 110/23.5KV 50MVA 2	91%	93%	96%	99%	102%	105%	107%
BATUCO 110/23.5KV 50MVA 3	62%	64%	65%	67%	69%	71%	73%
BICENTENARIO 110/12.5KV 25MVA 1	92%	57%	58%	60%	62%	63%	65%
BICENTENARIO 110/12.5KV 25MVA 2	88%	91%	94%	97%	99%	102%	105%
BICENTENARIO 110/12.5KV 50 MVA Nuevo	0%	74%	76%	78%	80%	83%	85%

BRASIL 110/12.5KV 50MVA 1	84%	61%	63%	65%	66%	68%	70%
BRASIL 110/12.5KV 50MVA 2	62%	46%	47%	48%	50%	51%	52%
BRASIL 110/12.5KV 50MVA Nuevo	0%	44%	45%	47%	48%	49%	51%
BRASIL 110/12.5KV 50MVA 3R	0%	0%	0%	0%	0%	0%	0%
CALEU 44/12.5KV 0.5MVA 1	45%	47%	48%	49%	51%	52%	54%
CARRASCAL 110/12.5KV 22.4MVA 1	82%	85%	87%	90%	92%	95%	97%
CARRASCAL 110/12.5KV 22.4MVA 2	74%	76%	78%	80%	83%	85%	87%
CARRASCAL 110/12.5KV 22.4MVA 3R	0%	0%	0%	0%	0%	0%	0%
CHACABUCO 110/12.5KV 22.4MVA 4R	0%	0%	0%	0%	0%	0%	0%
CHACABUCO 110/12.5KV 50MVA 1	57%	58%	60%	62%	64%	65%	67%
CHACABUCO 110/23.5KV 37.5MVA 2	77%	79%	81%	84%	86%	89%	91%
CHACABUCO 110/23.5KV 50MVA 3	62%	64%	65%	67%	69%	71%	73%
CHACABUCO 110/23.5KV 50MVA 7	12%	12%	12%	13%	13%	13%	14%
CHACABUCO 110/23.5KV 50MVA 8	56%	57%	59%	61%	62%	64%	66%
CHACABUCO 110/23,5KV 25 MVA 6 -	0%	0%	0%	0%	0%	0%	0%
CHACABUCO 110/12.5KV 50MVA 1 Nuevo	24%	25%	26%	27%	27%	28%	29%
CHICUREO 220/23.5KV 25MVA TR1	45%	47%	48%	49%	51%	52%	54%
CHICUREO 220/23.5KV 25MVA Nuevo	23%	23%	24%	25%	25%	26%	27%
CLUB HIPICO 110/12.5KV 22.4MVA 1	0%	0%	0%	0%	0%	0%	0%
CLUB HIPICO 110/12.5KV 25MVA 6	68%	70%	72%	74%	76%	78%	80%
CLUB HIPICO 110/12.5KV 50MVA 3	80%	83%	85%	88%	90%	93%	95%
CLUB HIPICO 110/12.5KV 50MVA 4	60%	61%	63%	65%	67%	69%	71%
COSTANERA 110/12.5KV 25MVA	82%	85%	87%	90%	92%	95%	98%
CURACAVI 44/12.15KV 10MVA 3	0%	0%	0%	0%	0%	0%	0%
CURACAVI 44/12.15KV 4MVA 1	98%	101%	104%	107%	110%	113%	116%
CURACAVI 44/12KV 10MVA 2	84%	87%	89%	92%	95%	97%	100%
EL MANZANO 230/25KV 20MVA 1	72%	74%	76%	79%	81%	83%	85%
EL MANZANO 230/25KV 20MVA 2	43%	44%	45%	46%	48%	49%	50%

EL MANZANO 230/25KV 20MVA 3R	26%	27%	27%	28%	29%	30%	30%
EL MANZANO 230/25KV 20MVA 4	23%	24%	24%	25%	26%	27%	27%
FLORIDA 2 110/12.5KV 25MVA	62%	64%	65%	67%	69%	71%	73%
LA CISTERNA 110/13.2KV 25MVA 1	82%	85%	87%	90%	92%	95%	98%
LA CISTERNA 110/13.2KV 35MVA 2	79%	82%	84%	87%	89%	92%	94%
LA CISTERNA 110/12.5KV 50MVA 3	71%	73%	75%	77%	79%	82%	84%
LA CISTERNA 110/12 kV 50 MVA Nuevo	0	0	0	0	0	0	0
LA DEHESA 110/13.2KV 25MVA 1	91%	61%	62%	64%	66%	68%	70%
LA DEHESA 110/12.5KV 50MVA 2	28%	29%	29%	30%	31%	32%	33%
LA DEHESA 110/23.5KV 50MVA 3	30%	30%	31%	32%	33%	34%	35%
LA DEHESA 110/12 kV 50 MVA Nuevo	0%	19%	19%	20%	20%	21%	21%
LA DEHESA 110/23KV 20MVA 4R	0%	0%	0%	0%	0%	0%	0%
LA PINTANA 110/12.5KV 20MVA 3R	0%	0%	0%	0%	0%	0%	0%
LA PINTANA 110/12.5KV 25MVA 1	80%	83%	85%	88%	90%	93%	95%
LA PINTANA 110/12.5KV 25MVA 2	62%	64%	65%	67%	69%	71%	73%
LA PINTANA 110KV/12.5KV 25MVA 3	83%	85%	88%	90%	93%	96%	98%
LA REINA 110/12.5KV 20MVA 1	0%	0%	0%	0%	0%	0%	0%
LA REINA 110/12.5KV 50MVA 2	84%	87%	89%	92%	95%	97%	100%
LA REINA 110/12.5KV 50MVA 3	92%	94%	97%	100%	103%	106%	109%
LA REINA 110/12.5KV 50MVA 4	91%	93%	96%	99%	102%	105%	107%
LAS ACACIAS 110/23.5KV 37.5MVA 1	84%	86%	89%	91%	94%	97%	99%
LAS ACACIAS 110/23.5KV 37.5MVA 2	49%	51%	52%	54%	55%	57%	59%
LAS ACACIAS 110/23.5KV/12.5KV 50MVA 3	34%	35%	36%	37%	38%	39%	40%
LO AGUIRRE 110/12.5KV 10.5MVA 1	74%	76%	78%	80%	83%	85%	87%
LO AGUIRRE 110/12.5KV 10.5MVA 2R	0%	0%	0%	0%	0%	0%	0%
LO BOZA 110/12.5KV 12.5MVA 5R	0%	0%	0%	0%	0%	0%	0%
LO BOZA 110/12.5KV 22.4MVA 5R	0%	0%	0%	0%	0%	0%	0%
LO BOZA 110/12.5KV 25MVA 1	87%	89%	92%	94%	97%	100%	102%

LO BOZA 110/12.5KV 25MVA 2	58%	59%	61%	63%	65%	67%	68%
LO BOZA 110/12.5KV 50MVA 4	124%	127%	131%	135%	139%	143%	146%
LO BOZA 110/23.5KV 50MVA 3	72%	74%	76%	79%	81%	83%	85%
LO BOZA 110/23.5KV 50MVA 6	0%	0%	0%	0%	0%	0%	0%
LO PRADO 110/46KV 28MVA 1	50%	51%	53%	54%	56%	57%	59%
LO PRADO 44/12.15KV 3.5MVA 2	47%	48%	50%	51%	53%	54%	56%
LO VALLEDOR 110/13.2KV 25MVA 1	66%	68%	70%	72%	74%	76%	78%
LO VALLEDOR 110/12.5KV 50MVA 3	80%	83%	85%	88%	90%	93%	95%
LO VALLEDOR 110/12.5KV 50MVA 4	28%	29%	30%	31%	31%	32%	33%
LO VALLEDOR 110/12.5KV 25MVA 2	0%	0%	0%	0%	0%	0%	0%
LORD COCHRANE 110/12.5KV 44.7MVA 1	60%	62%	63%	65%	67%	69%	71%
LORD COCHRANE 110/12.5KV 44.7MVA 2	71%	74%	76%	78%	80%	82%	85%
LORD COCHRANE 110/12.5KV 50MVA 3R	0%	0%	0%	0%	0%	0%	0%
LOS DOMINICOS 110/12.5KV 22.4MVA 1R	0%	0%	0%	0%	0%	0%	0%
LOS DOMINICOS 110/12.5KV 25MVA 2R	82%	85%	87%	90%	92%	95%	98%
LOS DOMINICOS 110/12.5KV 50MVA 3	84%	87%	89%	92%	95%	97%	100%
LOS DOMINICOS 110/12 kv 50 MVA Nuevo	38%	39%	40%	41%	42%	44%	45%
MACUL 110/12.5KV 20MVA 1R	0%	0%	0%	0%	0%	0%	0%
MACUL 110/12.5KV 50MVA 3	78%	60%	62%	64%	66%	68%	70%
MACUL 110/12.5KV 50MVA 4	91%	68%	70%	72%	74%	76%	78%
MACUL 110/12.5KV 50MVA Nuevo	0%	46%	48%	49%	51%	52%	53%
MAIPU 110/12.5KV 22.4MVA 2	74%	76%	78%	80%	83%	85%	87%
MAIPU 110/12.5KV 22.4MVA 3	78%	80%	83%	85%	88%	90%	93%
MAIPU 110/13.2KV 25MVA 1	58%	59%	61%	63%	65%	67%	68%
MALLOCO 110/12.5KV 22.4MVA	0%	0%	0%	0%	0%	0%	0%
MALLOCO 110/12.5KV 22.4MVA 2	78%	80%	83%	85%	88%	90%	93%
MALLOCO 110/12.5KV 50MVA	52%	53%	55%	56%	58%	59%	61%
MALLOCO 110/23.5KV 37.5MVA 3	63%	65%	67%	69%	71%	73%	75%

MALLOCO 110/23.5KV 50MVA 4	0%	0%	0%	0%	0%	0%	0%
MOVIL 110/12.5KV 22.4MVA	0%	0%	0%	0%	0%	0%	0%
OCHAGAVIA 105/12KV 40MVA 1R	0%	0%	0%	0%	0%	0%	0%
OCHAGAVIA 110/12.5KV 50MVA 2	91%	93%	96%	99%	102%	105%	107%
PAJARITOS 110/12.5KV 22.4MVA 4R	86%	88%	91%	94%	96%	99%	101%
PAJARITOS 110/12.5KV 50MVA 1	93%	95%	98%	101%	104%	107%	110%
PAJARITOS 110/12.5KV 50MVA 2	89%	91%	94%	97%	99%	102%	105%
PAJARITOS 110/23.5KV 50MVA 3	37%	38%	39%	40%	42%	43%	44%
PANAMERICANA 110/12.5KV 22.4MVA 4R	0%	0%	0%	0%	0%	0%	0%
PANAMERICANA 110/13.2KV 25MVA 1	68%	70%	72%	74%	76%	78%	80%
PANAMERICANA 110/12.5KV 25MVA 2	65%	67%	69%	71%	73%	75%	77%
PANAMERICANA 110/12.5KV 50 MVA Nuevo	27%	27%	28%	29%	30%	31%	31%
POLPAICO 110/23KV 20MVA 1	41%	42%	44%	45%	46%	48%	49%
PUDAHUEL 110/12.5KV 20MVA 3R	0%	0%	0%	0%	0%	0%	0%
PUDAHUEL 110/12.5KV 22.4MVA 1	85%	88%	90%	93%	95%	98%	101%
PUDAHUEL 110/12.5KV 22.4MVA 2	87%	45%	46%	48%	49%	50%	52%
PUDAHUEL 110/12 kV 50 MVA Nuevo	0%	20%	20%	21%	22%	22%	23%
PUENTE ALTO 110/12.5KV 10/25MVA 2	79%	81%	83%	86%	88%	91%	93%
PUENTE ALTO 110/12.5KV 25MVA 1	72%	74%	76%	79%	81%	83%	85%
QUILICURA 110/12.5KV 22.4MVA 4	0%	0%	0%	0%	0%	0%	0%
QUILICURA 110/12.5KV 25MVA 2	33%	34%	35%	36%	37%	38%	39%
QUILICURA 110/13.2KV 25MVA 3	80%	83%	85%	88%	90%	93%	95%
QUILICURA 110/23.5KV 50MVA 1	38%	39%	40%	42%	43%	44%	45%
QUILICURA 110/12 kV 50 MVA Nuevo	64%	66%	68%	70%	72%	74%	76%
RECOLETA 110/12.5KV 22.4MVA 2R	0%	0%	0%	0%	0%	0%	0%
RECOLETA 110/12.5KV 50MVA 3	60%	61%	63%	65%	67%	69%	71%
RECOLETA 110/12.5KV 50MVA 4	78%	81%	83%	85%	88%	90%	93%
RECOLETA 110/13.2KV 25MVA 1	41%	42%	44%	45%	46%	48%	49%

RUNGUE 44/23KV 3.5MVA 1	59%	61%	62%	64%	66%	68%	70%
SAN BERNARDO 110/12.5KV 22.4MVA 1	72%	74%	77%	79%	81%	83%	86%
SAN BERNARDO 110/12.5KV 22.4MVA 2	56%	58%	60%	62%	63%	65%	67%
SAN BERNARDO 110/12.5KV 50MVA 3	74%	76%	78%	81%	83%	86%	88%
SAN BERNARDO 110/12.5KV 22.4MVA 4R	37%	38%	39%	40%	41%	42%	44%
SAN BERNARDO 110/12 kV 50 MVA Nuevo	28%	29%	30%	31%	32%	33%	34%
SAN CRISTOBAL 105/12KV 40MVA 1	0%	0%	0%	0%	0%	0%	0%
SAN CRISTOBAL 105/12KV 40MVA 2	59%	61%	63%	65%	66%	68%	70%
SAN CRISTOBAL 110/13.9KV 50MVA 3	72%	74%	76%	79%	81%	83%	85%
SAN CRISTOBAL 110/12.5KV 50MVA 5	87%	89%	92%	94%	97%	100%	102%
SAN CRISTOBAL 110/12.5KV 50MVA 4R	58%	59%	61%	63%	65%	67%	68%
SAN JOAQUIN 110/12.5KV 50MVA 1	87%	67%	69%	71%	73%	75%	77%
SAN JOAQUIN 110/12.5KV 25MVA 2	40%	21%	21%	22%	23%	23%	24%
SAN JOAQUIN 110/12.5KV 50MVA 3	91%	75%	77%	79%	81%	84%	86%
SAN JOAQUIN 110/12.5KV 22.4MVA 4	57%	0%	0%	0%	0%	0%	0%
SAN JOAQUIN 110/12 kV 50 MVA Nuevo	75%	77%	79%	82%	84%	86%	89%
SAN JOSE 110/12.5KV 22.4MVA 1	0%	0%	0%	0%	0%	0%	0%
SAN JOSE 110/13.2KV 25MVA 2	103%	106%	109%	112%	116%	119%	122%
SAN JOSE 110/12.5KV 50MVA 4	65%	67%	69%	71%	73%	75%	77%
SAN JOSE 110/12 kV 50 MVA Nuevo	60%	62%	63%	66%	67%	69%	71%
SAN PABLO 110/23.5KV 37.5MVA 1	61%	50%	51%	53%	54%	56%	57%
SAN PABLO 110/23.5KV 37.5MVA 2	74%	57%	59%	61%	62%	64%	66%
SAN PABLO 110/23.5KV 50MVA Nuevo	22%	23%	24%	25%	25%	26%	27%
SANTA ELENA 110/12.5KV 50MVA 2	61%	63%	64%	66%	68%	70%	72%
SANTA ELENA 110/12.5KV 50MVA 3	76%	78%	81%	83%	85%	88%	90%
SANTA ELENA 110/12.5KV 50MVA 4	88%	90%	93%	96%	98%	101%	104%
SANTA ELENA 110/12.5KV 22.4MVA 1	0%	0%	0%	0%	0%	0%	0%
SANTA ELENA 110/13.2KV 25MVA 3	0%	0%	0%	0%	0%	0%	0%

SANTA MARTA 110/12.5KV 50MVA 1	79%	82%	84%	87%	89%	92%	94%
SANTA MARTA 110/12.5KV 50MVA 2	65%	67%	69%	71%	73%	75%	77%
SANTA MARTA 110/23.5KV 37.5MVA 4	85%	87%	90%	93%	95%	98%	101%
SANTA MARTA 110/23KV 20MVA 3	0%	0%	0%	0%	0%	0%	0%
SANTA RAQUEL 110/12.5KV 50MVA 1	97%	100%	102%	106%	109%	112%	115%
SANTA RAQUEL 110/12.5KV 25MVA 2	87%	89%	92%	94%	97%	100%	102%
SANTA RAQUEL 110/12.5KV 22.4MVA 4	64%	66%	68%	70%	72%	74%	76%
SANTA RAQUEL 110/20,4 kV 50MVA 5	0%	0%	0%	0%	0%	0%	0%
SANTA ROSA SUR 110/12.5KV 25MVA 1	57%	59%	60%	62%	64%	66%	67%
SANTA ROSA SUR 110/12.5KV 25MVA 2	73%	75%	77%	79%	81%	84%	86%
SANTA ROSA SUR 110/13.2KV 25MVA 3	71%	73%	75%	77%	79%	82%	84%
SANTA ROSA SUR 110/12.5KV 22.4MVA 4	50%	51%	53%	55%	56%	58%	59%
SANTA ROSA SUR 110/12 kV 50 MVA Nuevo	54%	55%	57%	59%	60%	62%	64%
VITACURA 110/12.5KV 50MVA 1	83%	86%	88%	91%	94%	96%	99%
VITACURA 110/12.5KV 50MVA 2	66%	68%	70%	72%	74%	76%	78%
VITACURA 110/12.5KV 50MVA 3	87%	89%	92%	94%	97%	100%	102%
VITACURA 110/12.5KV 50MVA 4	84%	87%	89%	92%	95%	97%	100%
MARISCAL 110/12kV 30MVA T1	52%	54%	55%	57%	58%	60%	62%
MARISCAL 110/23kV 30MVA T2	19%	19%	20%	21%	21%	22%	22%
PIRQUE 110/13.2KV 5.25MVA	51%	53%	54%	56%	57%	59%	60%
PIRQUE 110/13.2KV 5MVA	64%	66%	68%	70%	72%	74%	76%

6.4.4.2 Transformadores AT/AT

Tabla 6.4.29. Cargabilidad de transformadores AT/AT en escenario Verano Día, Zona Región Metropolitana.

Transformador	2019	2020	2021	2022	2023	2024	2025
AJahuel 220/110kV-390MVA	65%	67%	74%	76%	79%	83%	91%
Alto Jahuel 110/66 kV	82%	42%	43%	43%	42%	43%	44%

Alto Jahuel 220/154kV-300MVA	30%	30%	29%	28%	30%	31%	32%
Buin 220/110kV-400MVA	66%	68%	74%	76%	75%	79%	92%
Cerro Navia 220/110 kV 400 MVA T1	73%	75%	67%	69%	78%	84%	88%
Cerro Navia 220/110 kV 400 MVA T2	73%	75%	66%	69%	78%	83%	88%
Cerro Navia 220/110 kV 400 MVA T3	65%	67%	67%	69%	78%	84%	88%
Chena 220/110kV-400MVA T1	65%	67%	69%	71%	75%	80%	88%
Chena 220/110kV-400MVA T2	65%	67%	69%	71%	75%	80%	88%
El Salto 220/110kV-400MVA T1	47%	48%	50%	54%	53%	58%	66%
El Salto 220/110kV-400MVA T2	47%	48%	50%	54%	53%	58%	66%
Los Almendros 220/110kV 400MVA T1	92%	94%	102%	104%	105%	110%	124%

Tabla 6.4.30. Cargabilidad de transformadores AT/AT en escenario Verano Noche, Zona Región Metropolitana.

Transformador	2019	2020	2021	2022	2023	2024	2025
AJahuel 220/110kV-390MVA	58%	60%	66%	67%	70%	74%	81%
Alto Jahuel 110/66 kV	73%	38%	38%	38%	38%	38%	39%
Alto Jahuel 220/154kV-300MVA	27%	27%	25%	25%	27%	28%	28%
Buin 220/110kV-400MVA	59%	60%	66%	67%	67%	70%	82%
Cerro Navia 220/110 kV 400 MVA T1	65%	66%	59%	62%	69%	74%	78%
Cerro Navia 220/110 kV 400 MVA T2	65%	66%	59%	62%	69%	74%	78%
Cerro Navia 220/110 kV 400 MVA T3	58%	59%	59%	62%	69%	74%	78%
Chena 220/110kV-400MVA T1	58%	59%	61%	64%	67%	71%	78%
Chena 220/110kV-400MVA T2	58%	59%	61%	64%	67%	71%	78%
El Salto 220/110kV-400MVA T1	42%	43%	45%	48%	48%	52%	59%
El Salto 220/110kV-400MVA T2	42%	43%	45%	48%	48%	52%	59%
Los Almendros 220/110kV 400MVA T1	82%	84%	91%	92%	94%	98%	110%

Tabla 6.4.31. Cargabilidad de transformadores AT/AT en escenario Invierno Día, Zona Región Metropolitana.

Transformador	2019	2020	2021	2022	2023	2024	2025
AJahuel 220/110kV-390MVA	69%	71%	73%	74%	78%	81%	85%

Alto Jahuel 110/66 kV	72%	37%	37%	38%	38%	37%	38%
Alto Jahuel 220/154kV-300MVA	36%	36%	36%	34%	37%	48%	49%
Buin 220/110kV-400MVA	65%	67%	69%	71%	74%	78%	82%
Cerro Navia 220/110 kV 400 MVA T1	60%	62%	63%	65%	67%	70%	74%
Cerro Navia 220/110 kV 400 MVA T2	60%	62%	63%	65%	67%	69%	73%
Cerro Navia 220/110 kV 400 MVA T3	60%	62%	63%	65%	67%	70%	74%
Chena 220/110kV-400MVA T1	64%	66%	67%	70%	72%	75%	79%
Chena 220/110kV-400MVA T2	64%	66%	67%	70%	72%	75%	79%
El Salto 220/110kV-400MVA T1	34%	34%	35%	37%	40%	40%	43%
El Salto 220/110kV-400MVA T2	34%	34%	35%	37%	40%	40%	43%
Los Almendros 220/110kV 400MVA T1	86%	88%	91%	93%	96%	101%	106%

Tabla 6.4.32. Cargabilidad de transformadores AT/AT en escenario Invierno Noche, Zona Región Metropolitana.

Transformador	2019	2020	2021	2022	2023	2024	2025
AJahuel 220/110kV-390MVA	79%	81%	83%	84%	89%	93%	97%
Alto Jahuel 110/66 kV	82%	42%	42%	43%	43%	42%	43%
Alto Jahuel 220/154kV-300MVA	0%	40%	41%	39%	42%	55%	56%
Buin 220/110kV-400MVA	74%	76%	79%	81%	84%	89%	93%
Cerro Navia 220/110 kV 400 MVA T1	68%	70%	71%	74%	76%	79%	84%
Cerro Navia 220/110 kV 400 MVA T2	68%	70%	71%	74%	76%	79%	83%
Cerro Navia 220/110 kV 400 MVA T3	68%	70%	71%	74%	76%	79%	84%
Chena 220/110kV-400MVA T1	73%	74%	77%	79%	82%	86%	90%
Chena 220/110kV-400MVA T2	73%	74%	77%	79%	82%	86%	90%
El Salto 220/110kV-400MVA T1	38%	39%	40%	43%	45%	46%	49%
El Salto 220/110kV-400MVA T2	38%	39%	40%	43%	45%	46%	49%
Los Almendros 220/110kV 400MVA T1	98%	100%	103%	106%	109%	115%	120%

6.4.4.3 Líneas de Transmisión

Tabla 6.4.33. Cargabilidad de líneas de transmisión en escenario Verano Día, Zona Región Metropolitana.

Línea	2019	2020	2021	2022	2023	2024	2025
Acacias - Sn Bernardo 110kV L1	51%	53%	61%	62%	60%	76%	63%
Acacias - Sn Bernardo 110kV L2	51%	54%	61%	62%	60%	76%	63%
Alfalfal - Maitenes	39%	41%	39%	40%	40%	47%	42%
Alto Jahuel - Buin 220kV	62%	65%	71%	73%	72%	89%	76%
Alto Jahuel - Los Almendros 220kV - L1	19%	20%	11%	12%	13%	23%	15%
Alto Jahuel - Los Almendros 220kV - L2	19%	20%	11%	12%	13%	23%	15%
Alto Jahuel - Tap Buin 110kV L1	48%	51%	50%	52%	52%	62%	55%
Alto Jahuel - Tap Buin 110kV L2	38%	40%	39%	40%	39%	48%	42%
Andes - Tap La Reina 110 kV L1	27%	28%	7%	7%	7%	6%	7%
Andes - Tap La Reina 110 kV L2	36%	38%	23%	25%	25%	28%	27%
Apoquindo - T14 110kV L1	31%	33%	38%	38%	39%	45%	40%
Apoquindo - T14 110kV L2	26%	27%	31%	31%	31%	36%	32%
Buin - Tap Buin 110 kV L1	0%	0%	0%	0%	0%	0%	0%
Buin - Tap Buin 110 kV L2	0%	0%	0%	0%	0%	0%	0%
C.Navía - Tap Batuco 110 KV L1	16%	17%	5%	5%	17%	22%	21%
C.Navía - Tap Batuco 110 KV L2	16%	17%	6%	7%	17%	23%	21%
C.Navía - Tap Lo Boza 110 KV L1	31%	33%	32%	33%	37%	41%	40%
C.Navía - Tap Lo Boza 110kV L2	39%	41%	41%	42%	47%	53%	50%
C.Navía - Tap Los Libertadores 110 KV L1	38%	40%	29%	28%	42%	48%	46%
C.Navía - Tap Los Libertadores 110 KV L2	39%	41%	29%	29%	42%	50%	47%
C.Navía - Tap Pudahuel 110kV L1	20%	21%	16%	18%	21%	21%	22%
C.Navía - Tap Pudahuel 110kV L2	10%	10%	4%	5%	7%	5%	8%
Carena - Lo Prado 44 kV C1	0%	0%	0%	0%	0%	0%	0%

Carena - Lo Prado 44 kV C2	0%	0%	0%	0%	0%	0%	0%
Cerro Navia - Arra. Chena 220 kV -L1	18%	19%	36%	34%	20%	40%	18%
Cerro Navia - Arra. Chena 220 kV -L1_a	25%	26%	39%	37%	22%	43%	21%
Cerro Navia - San Pablo 110 kV	37%	39%	41%	43%	44%	52%	46%
Cerro Navia - Tap Altamirano 110 KV L1	27%	28%	30%	31%	32%	38%	34%
Cerro Navia - Tap Altamirano 110 KV L2	27%	28%	30%	31%	32%	38%	34%
Chena - Lo Espejo 110 kV L1	35%	37%	34%	37%	42%	45%	46%
Chena - Lo Espejo 110 kV L2	29%	30%	27%	29%	34%	36%	38%
Chena - Tap Sta Marta 110kV L1	37%	39%	43%	44%	43%	54%	45%
Chena - Tap Sta Marta 110kV L2	38%	39%	45%	45%	45%	57%	47%
El Salto - San Cristobal 110 kV L11	26%	27%	31%	33%	31%	40%	33%
El Salto - San Cristobal 110 kV L21	27%	28%	32%	34%	32%	42%	34%
El Salto - T18b 110kV L1	19%	20%	19%	21%	22%	25%	25%
El Salto - T18b 110kV L2	19%	20%	18%	20%	22%	24%	24%
FFCC - Tap Cisterna 110kV L1	30%	31%	31%	33%	36%	41%	39%
FFCC - Tap Cisterna 110kV L2	33%	35%	35%	37%	40%	46%	43%
Florida - Tap La Laja 110 kV L1	101%	106%	116%	118%	119%	131%	122%
Florida - Tap La Laja 110 kV L1_b	101%	106%	116%	118%	119%	132%	122%
Florida - Tap Las Vizcachas 110 kV L2	93%	98%	103%	104%	103%	111%	104%
Florida - Tap Sta Raquel 110 kV L1	13%	13%	12%	10%	9%	3%	8%
Florida - Tap Sta Raquel 110 kV L2	40%	43%	39%	40%	37%	47%	40%
L. Almendros - Alfalfa 220 kV	31%	33%	25%	25%	25%	25%	24%
La Laja - Guayacán	28%	29%	29%	29%	29%	30%	29%
Lo Aguirre - Lo Prado 110 kV	19%	20%	22%	23%	23%	29%	25%
Lo Prado - Curacavi 44 kV	18%	19%	20%	21%	22%	27%	24%
Lo Prado - Curacavi 44 kV 2	28%	29%	31%	33%	34%	41%	36%

Los Almendros - T82 110 kV L1	23%	24%	14%	15%	16%	18%	17%
Los Almendros - T82 110 kV L2	34%	35%	29%	31%	32%	36%	34%
Ochagavía - FFCC 110kV L1	29%	31%	30%	32%	35%	41%	38%
Ochagavía - FFCC 110kV L2	33%	35%	35%	37%	40%	46%	43%
Ochagavía_L.Cochrane - Metro 110 kV	21%	22%	23%	24%	24%	28%	26%
Ochagavía - Metro 110 kV	52%	55%	57%	59%	58%	63%	59%
Ochagavía - Tap Club Hípico 110 kV L1	11%	12%	7%	7%	8%	4%	9%
Ochagavía - Tap Club Hípico 110 kV L2	29%	31%	28%	30%	33%	37%	37%
Pachacama - Las Vegas 110 kV L2	5%	5%	11%	8%	8%	11%	7%
Panamericana - Acacias 110kV L1	35%	37%	42%	43%	41%	53%	42%
Polpaico - El Manzano 220kV C1	25%	27%	28%	30%	30%	37%	32%
Polpaico - El Manzano 220kV C2	23%	25%	26%	28%	28%	34%	30%
Polpaico - El Manzano+Tortolas 220 kV	0%	0%	0%	0%	0%	0%	0%
Polpaico - El Manzano+Tortolas 220(1)	0%	0%	0%	0%	0%	0%	0%
Punta Peuco - Las Vegas 110 KV L1	40%	43%	52%	54%	43%	47%	43%
Punta Peuco - Las Vegas 110 KV L2	11%	11%	19%	21%	9%	12%	9%
Quilicura - Tap Chacabuco 110 KV L2	20%	21%	18%	19%	23%	23%	24%
Renca - Metro 110 kV	20%	21%	22%	22%	22%	25%	23%
Renca - Tap Brasil 110kV L1	20%	21%	22%	23%	24%	28%	25%
Renca - Tap Brasil 110kV L2	11%	11%	12%	13%	13%	15%	14%
Renca_L.Cochrane - Metro 110 kV	17%	18%	18%	19%	19%	23%	21%
San Bernardo - Malloco 110kV	64%	67%	71%	74%	76%	90%	81%
San Pablo - Lo Aguirre 110 kV	25%	27%	29%	30%	31%	37%	33%
Sn Bernardo - Buin 110kV L1	31%	33%	37%	38%	37%	46%	39%
Sn Bernardo - Buin 110kV L2	31%	33%	36%	37%	37%	45%	39%
Sn Joaquin - Tap Sta Elena 110 kV L1	51%	54%	60%	60%	55%	68%	55%

Sn Joaquin - Tap Sta Elena 110 kV L2	27%	28%	31%	30%	24%	32%	22%
Sta Raquel - VV. Martinez 110 kV	0%	0%	0%	0%	0%	0%	0%
Sta. Marta - Padre Hurtado 110kV(1)	7%	7%	8%	8%	8%	9%	9%
T.Los Libertadores - Los Libertadores 1	16%	17%	18%	18%	18%	19%	18%
T.Los Libertadores - Los Libertadores 2	16%	17%	18%	18%	18%	19%	18%
T14 - Tap Dominicos 110kV L1	31%	33%	38%	38%	39%	45%	40%
T14 - Tap Dominicos 110kV L2	26%	27%	31%	31%	31%	36%	32%
T41 - Tap Apoquindo 110kV L2	27%	29%	35%	34%	34%	39%	34%
T41 - Tap Apoquindo 110kV L1	25%	27%	32%	31%	31%	34%	31%
T82 - Tap Andes 110 kV L1	32%	33%	19%	21%	21%	24%	23%
T82 - Tap Andes 110 kV L2	47%	49%	40%	42%	44%	50%	47%
TAP CODELCO VENTANAS - CODELCO VENTANAS	67%	70%	70%	70%	71%	74%	73%
Tap A. Norte - Algarrobo Norte C1 66 kV	1%	1%	2%	2%	2%	2%	2%
Tap A. Norte - Algarrobo Norte C2 66 kV	1%	1%	1%	1%	1%	1%	1%
Tap A. de Cordova - T41 110kV L1	25%	27%	32%	31%	31%	34%	31%
Tap A. de Cordova - T41 110kV L2	27%	29%	35%	34%	34%	39%	34%
Tap A.Córdova - A.Córdova 110kV L1a	64%	67%	71%	74%	76%	89%	81%
Tap A.Córdova - A.Córdova 110kV L2a	75%	79%	83%	86%	89%	104%	94%
Tap Altamirano - Altamirano 110kV L1	48%	51%	54%	56%	58%	68%	61%
Tap Altamirano - Altamirano 110kV L2	58%	61%	65%	67%	69%	82%	74%
Tap Altamirano - Renca 110 kV L1	19%	20%	21%	22%	22%	27%	24%
Tap Altamirano - Renca 110kV L2	18%	19%	20%	20%	21%	24%	22%
Tap Andes - Andes 110 kV L1	12%	13%	13%	14%	14%	17%	15%
Tap Andes - Andes 110 kV L2	14%	15%	15%	16%	16%	19%	18%
Tap Apoquindo - Apoquindo 110kV L1	102%	107%	114%	119%	122%	146%	131%
Tap Apoquindo - Apoquindo 110kV L2	46%	49%	52%	53%	55%	64%	59%

Tap Batuco - Batuco 110 kV C1	22%	23%	25%	26%	26%	31%	28%
Tap Batuco - Batuco 110 kV C2	22%	23%	25%	26%	27%	33%	29%
Tap Batuco - Punta Peuco 110 KV L1	19%	20%	33%	36%	23%	26%	22%
Tap Batuco - Punta Peuco 110kV L2	19%	20%	33%	35%	22%	26%	21%
Tap Bicentenario-Bicentenario 110 kV L1	3%	3%	4%	4%	4%	5%	4%
Tap Bicentenario-Bicentenario 110 kV L2	7%	7%	8%	8%	8%	10%	9%
Tap Brasil - Brasil 110kV L1	25%	27%	29%	30%	31%	37%	33%
Tap Brasil - Brasil 110kV L2	11%	12%	13%	13%	13%	16%	14%
Tap Carrascal - Carrascal 110kV L1	23%	25%	26%	27%	28%	32%	29%
Tap Carrascal - Carrascal 110kV L2	22%	23%	24%	25%	26%	30%	27%
Tap Chacabuco - Chacabuco 110kV L1	13%	14%	14%	15%	15%	18%	16%
Tap Chacabuco - Chacabuco 110kV L2	23%	24%	26%	27%	28%	33%	30%
Tap Chacabuco-Tap Recoleta 110 KV L1	3%	4%	2%	2%	4%	4%	4%
Tap Chacabuco-Tap Recoleta 110 KV L2	7%	7%	11%	11%	8%	14%	8%
Tap Chicureo - Chicureo 220kV L1	4%	4%	4%	4%	4%	5%	4%
Tap Chicureo - Chicureo 220kV L2	4%	4%	4%	4%	4%	5%	4%
Tap Chicureo - El Salto 220kV C1	22%	23%	24%	26%	26%	32%	28%
Tap Chicureo - El Salto 220kV C2	22%	24%	25%	27%	26%	33%	29%
Tap Cisterna - Cisterna 110kV L1	20%	21%	22%	22%	23%	27%	24%
Tap Cisterna - Cisterna 110kV L2	10%	11%	12%	12%	12%	14%	13%
Tap Cisterna - Lo Espejo 110 kV L2	40%	42%	42%	44%	48%	55%	52%
Tap Cisterna - Lo Espejo 110kV L1	43%	45%	45%	48%	51%	59%	55%
Tap Club Hípico - Club Hípico 110kV L1	9%	9%	10%	10%	10%	12%	11%
Tap Club Hípico - Club Hípico 110kV L2	37%	39%	41%	43%	44%	53%	47%
Tap Club Hípico-Tap San Joaquin 110kV L1	11%	11%	9%	8%	6%	4%	5%
Tap Club Hípico-Tap San Joaquin 110kV L2	8%	8%	3%	3%	5%	7%	7%

Tap ENAMI - San Pedro 110kV L1	25%	27%	29%	28%	26%	13%	11%
Tap ENAMI - San Pedro 110kV L2	25%	27%	29%	28%	26%	13%	11%
Tap El Manzano - El Manzano 220kV L1	11%	12%	12%	12%	12%	13%	12%
Tap El Manzano - El Manzano 220kV L2	0%	0%	0%	0%	0%	0%	0%
Tap El Manzano - Tap Chicureo 220kV C1	23%	25%	26%	28%	27%	34%	30%
Tap El Manzano - Tap Chicureo 220kV C2	24%	25%	26%	28%	28%	34%	30%
Tap FFCC L.Espejo-FFCC L.Espejo 110kV C1	1%	1%	1%	1%	1%	1%	1%
Tap FFCC L.Espejo-FFCC L.Espejo 110kV C2	0%	0%	0%	0%	0%	0%	0%
Tap La Dehesa - Tap Vitacura L1	15%	16%	14%	16%	18%	19%	20%
Tap La Dehesa - Tap Vitacura L2	13%	13%	12%	13%	14%	15%	16%
Tap La Laja - La Laja L1	0%	0%	0%	0%	0%	0%	0%
Tap La Laja - La Laja L2	6%	6%	6%	6%	6%	6%	6%
Tap La Laja - Maitenes 110 kV L1	75%	79%	80%	82%	83%	94%	85%
Tap La Laja - Maitenes 110 kV L1_a	74%	78%	79%	81%	82%	94%	85%
Tap La Laja - Maitenes 110 kV L2	72%	76%	78%	80%	81%	93%	84%
Tap La Laja - Maitenes 110 kV L2_a	74%	78%	79%	81%	82%	94%	85%
Tap La Laja - Queltehues 110 kV L1	36%	38%	37%	37%	37%	39%	37%
Tap La Laja - Queltehues 110 kV L2	35%	37%	37%	37%	37%	39%	37%
Tap La Reina - La Florida 110 kV L1	34%	36%	25%	24%	25%	28%	25%
Tap La Reina - La Florida 110 kV L2	41%	44%	38%	38%	39%	46%	41%
Tap La Reina - La Reina 110 kV L1	13%	14%	15%	15%	16%	18%	17%
Tap La Reina 110 kV L2	30%	31%	33%	34%	35%	41%	38%
Tap Lampa - Lampa 220kV L2	1%	1%	1%	1%	1%	1%	1%
Tap Las Acacias - Las Acacias 110kV L1	14%	15%	15%	16%	16%	19%	17%
Tap Las Acacias - Las Acacias 110kV L2	15%	16%	17%	18%	18%	22%	20%
Tap Las Vizcachas - P. Alto 110 kV	26%	27%	28%	30%	32%	40%	35%

Tap Las Vízcachas - Tap La Laja 110kV L2	112%	117%	129%	131%	132%	147%	136%
Tap Lo Boza - Lo Boza 110kV L1	27%	29%	30%	32%	33%	39%	35%
Tap Lo Boza - Lo Boza 110kV L2	30%	32%	34%	36%	37%	46%	40%
Tap Lo Boza - Quilicura 110KV L2	34%	35%	34%	35%	40%	43%	43%
Tap Lo Valledor - Lo Valledor 110 kV L2	15%	16%	17%	17%	18%	21%	19%
Tap Lo Valledor - Lo Valledor 110kV L1	59%	62%	65%	68%	70%	83%	74%
Tap LoBoza - Quilicura 110 KV L1	25%	26%	24%	25%	29%	31%	31%
Tap Los Dominicos-Los Almendros 110kV L1	28%	29%	33%	33%	34%	40%	35%
Tap Los Dominicos-Los Almendros 110kV L2	21%	22%	26%	26%	26%	30%	26%
Tap Los Dominicos-Los Dominicos 110kV L1	39%	41%	44%	45%	47%	55%	50%
Tap Los Dominicos-Los Dominicos 110kV L2	21%	22%	23%	24%	25%	29%	26%
Tap Macul - Florida 110 kV L1	26%	28%	30%	31%	30%	36%	30%
Tap Macul - Florida 110 kV L2	36%	37%	41%	42%	41%	49%	42%
Tap Macul - Macul 110 kV L1	8%	8%	9%	9%	9%	10%	9%
Tap Macul - Macul 110 kV L2	27%	29%	30%	31%	32%	37%	34%
Tap Maipu - Tap Sta Marta 110kV L1	29%	30%	34%	34%	34%	43%	35%
Tap Maipu - Tap Sta Marta 110kV L2	23%	24%	27%	27%	26%	34%	27%
Tap Maipú -Tap Maipú 110 kV L1	17%	18%	19%	19%	20%	23%	21%
Tap Maipú -Tap Maipú 110 kV L2	45%	47%	50%	51%	53%	62%	56%
Tap Mariscal - Mariscal 110kV L1	4%	4%	4%	5%	5%	5%	5%
Tap Mariscal - Mariscal 110kV L2	3%	3%	3%	3%	3%	4%	3%
Tap Pajaritos - Pajaritos 110 kV L1	61%	65%	68%	71%	73%	87%	78%
Tap Pajaritos - Pajaritos 110 kV L2	38%	40%	42%	44%	45%	55%	49%
Tap Pajaritos - Tap Valledor 110kV L1	14%	15%	17%	17%	16%	21%	16%
Tap Pajaritos - Tap Valledor 110kV L2	13%	14%	15%	15%	14%	19%	14%
Tap Panamericana - Tap Acacias 110kV L2	33%	35%	41%	41%	40%	51%	41%

Tap Panamericana-Panamericana 110 kV L1	24%	25%	26%	27%	28%	33%	30%
Tap Panamericana-Panamericana 110 kV L2	13%	14%	14%	15%	15%	18%	16%
Tap Pintana - Pintana 110kV L1	24%	26%	27%	28%	29%	33%	30%
Tap Pintana - Pintana 110kV L2	8%	8%	8%	9%	9%	10%	9%
Tap Pintana - Torre1 110kV L1	47%	49%	49%	51%	50%	60%	54%
Tap Pintana - Torre1 110kV L2	37%	39%	38%	39%	38%	47%	41%
Tap Pudahuel - Pudahuel 110 kV L1	44%	47%	50%	52%	53%	63%	56%
Tap Pudahuel - Pudahuel 110 kV L2	15%	16%	17%	18%	18%	21%	19%
Tap Pudahuel - Tap San Jose 110kV L1	14%	15%	9%	11%	13%	12%	15%
Tap Pudahuel - Tap San Jose 110kV L2	9%	10%	3%	3%	6%	2%	6%
Tap Quilicura - Quilicura 110kV L1	39%	41%	43%	45%	46%	54%	49%
Tap Quilicura - Quilicura 110kV L2	64%	67%	72%	75%	77%	93%	82%
Tap Quilicura - Tap Chacabuco 110 KV L1	16%	17%	15%	15%	19%	19%	20%
Tap Recoleta - Recoleta 110kV L1	19%	20%	22%	22%	23%	28%	25%
Tap Recoleta - Recoleta 110kV L2	18%	19%	20%	21%	22%	26%	23%
Tap Recoleta - Sn Cristobal 110kV L1	8%	9%	11%	12%	10%	15%	10%
Tap Recoleta - Sn Cristobal 110kV L2	13%	14%	17%	18%	15%	22%	16%
Tap San Bernardo - San Bernardo 110kV L1	39%	41%	43%	45%	46%	55%	49%
Tap San Bernardo - San Bernardo 110kV L2	37%	39%	41%	42%	44%	51%	46%
Tap San Jose - Tap Pajaritos 110kV L1	8%	8%	3%	2%	3%	3%	3%
Tap Sn Joaquin-Tap Sn Joaquin 110 kV L1	27%	29%	30%	31%	32%	39%	35%
Tap Sn Joaquin-Tap Sn Joaquin 110 kV L2	18%	19%	20%	21%	22%	25%	23%
Tap Ssn Jose - Tap Pajaritos 110kV L2	10%	10%	8%	7%	7%	9%	6%
Tap Sta Elena - Sta Elena 110 kV L1	14%	15%	16%	16%	17%	20%	18%
Tap Sta Elena - Sta Elena 110 kV L2	29%	31%	32%	33%	34%	41%	37%
Tap Sta Elena - Tap Macul 110 kV L1	33%	35%	39%	40%	38%	47%	39%

Tap Sta Elena - Tap Macul 110 kV L2	32%	34%	38%	38%	36%	45%	37%
Tap Sta Marta - Sta Marta 110 kV L1	16%	17%	18%	19%	19%	23%	20%
Tap Sta Marta - Sta Marta 110 kV L2	34%	35%	37%	39%	40%	47%	42%
Tap Sta Raquel - Sta Raquel 110 kV L1	54%	57%	59%	61%	63%	74%	67%
Tap Sta Raquel - Sta Raquel 110 kV L2	19%	20%	21%	21%	22%	26%	24%
Tap Sta Raquel - Sta Rosa 110kV L1	35%	37%	34%	34%	30%	38%	33%
Tap Sta Raquel - Sta Rosa 110kV L2	50%	52%	49%	50%	47%	60%	52%
Tap Sta Rosa - Sta Rosa 110 kV L1	41%	44%	46%	47%	49%	57%	52%
Tap Sta Rosa - Sta Rosa 110 kV L2	21%	22%	23%	24%	25%	29%	26%
Tap Sta Rosa - Tap Pintana 110kV L1	34%	36%	35%	36%	35%	43%	38%
Tap Sta Rosa - Tap Pintana 110kV L2	32%	34%	33%	34%	33%	40%	35%
Tap Valledor - Tap Maipu 110kV L1	26%	27%	31%	31%	30%	39%	32%
Tap Valledor - Tap Maipu 110kV L2	15%	16%	19%	18%	17%	23%	18%
Tap Valpar - Tap Playa Ancha 110 kV L1	27%	29%	0%	0%	0%	0%	0%
Tap Valpar - Tap Playa Ancha 110 kV L2	39%	41%	0%	0%	0%	0%	0%
Tap Vitacura-Tap A. de Cordova 110kV L1	13%	14%	17%	16%	16%	13%	15%
Tap Vitacura-Tap A. de Cordova 110kV L2	10%	10%	15%	13%	13%	13%	11%
Torre 18 - La Dehesa 110kV L1	17%	18%	19%	20%	20%	24%	21%
Torre 18 - La Dehesa 110kV L2	29%	30%	32%	33%	34%	40%	37%
Torre 28 - San Pablo 110kV	23%	24%	25%	26%	27%	32%	29%
Torre 99 - Lo Aguirre 110 kV	7%	8%	8%	8%	9%	10%	9%

Tabla 6.4.34. Cargabilidad de líneas de transmisión en escenario Verano Noche, Zona Región Metropolitana.

Línea	2019	2020	2021	2022	2023	2024	2025
Acacias - Sn Bernardo 110kV L1	47%	50%	57%	58%	56%	71%	59%
Acacias - Sn Bernardo 110kV L2	47%	50%	57%	58%	56%	71%	59%
Alfalfal - Maitenes	36%	38%	36%	37%	38%	44%	39%

Alto Jahuel - Buin 220kV	58%	61%	66%	68%	68%	83%	71%
Alto Jahuel - Los Almendros 220kV - L1	18%	19%	10%	11%	13%	22%	14%
Alto Jahuel - Los Almendros 220kV - L2	18%	19%	10%	11%	13%	22%	14%
Alto Jahuel - Tap Buin 110kV L1	45%	47%	47%	48%	48%	58%	52%
Alto Jahuel - Tap Buin 110kV L2	35%	37%	36%	37%	37%	45%	39%
Andes - Tap La Reina 110 kV L1	25%	26%	6%	7%	7%	5%	6%
Andes - Tap La Reina 110 kV L2	33%	35%	21%	23%	24%	26%	25%
Apoquindo - T14 110kV L1	29%	31%	36%	36%	36%	42%	37%
Apoquindo - T14 110kV L2	24%	25%	29%	29%	29%	34%	30%
Buin - Tap Buin 110 kV L1	0%	0%	0%	0%	0%	0%	0%
Buin - Tap Buin 110 kV L2	0%	0%	0%	0%	0%	0%	0%
C.Navia - Tap Batuco 110 KV L1	15%	15%	5%	5%	16%	20%	19%
C.Navia - Tap Batuco 110 KV L2	15%	16%	6%	7%	16%	22%	20%
C.Navia - Tap Lo Boza 110 KV L1	29%	31%	30%	31%	35%	39%	37%
C.Navia - Tap Lo Boza 110kV L2	36%	38%	38%	40%	43%	49%	47%
C.Navia - Tap Los Libertadores 110 KV L1	36%	38%	27%	26%	39%	45%	43%
C.Navia - Tap Los Libertadores 110 KV L2	36%	38%	27%	27%	40%	46%	43%
C.Navia - Tap Pudahuel 110kV L1	18%	19%	15%	17%	19%	19%	21%
C.Navia - Tap Pudahuel 110kV L2	9%	10%	4%	5%	7%	4%	7%
Carena - Lo Prado 44 kV C1	0%	0%	0%	0%	0%	0%	0%
Carena - Lo Prado 44 kV C2	0%	0%	0%	0%	0%	0%	0%
Cerro Navia - Arra. Chena 220 kV -L1	17%	17%	34%	32%	18%	37%	17%
Cerro Navia - Arra. Chena 220 kV -L1_a	23%	25%	36%	35%	21%	40%	20%
Cerro Navia - San Pablo 110 kV	34%	36%	38%	40%	41%	48%	43%
Cerro Navia - Tap Altamirano 110 KV L1	25%	26%	28%	29%	30%	35%	32%
Cerro Navia - Tap Altamirano 110 KV L2	25%	27%	28%	29%	30%	35%	32%

Chena - Lo Espejo 110 kV L1	33%	35%	32%	34%	39%	42%	43%
Chena - Lo Espejo 110 kV L2	27%	28%	25%	27%	32%	33%	35%
Chena - Tap Sta Marta 110kV L1	34%	36%	40%	41%	40%	50%	42%
Chena - Tap Sta Marta 110kV L2	35%	37%	42%	42%	42%	53%	44%
El Salto - San Cristobal 110 kV L11	24%	25%	29%	30%	29%	38%	30%
El Salto - San Cristobal 110 kV L21	25%	26%	30%	32%	30%	39%	32%
El Salto - T18b 110kV L1	18%	19%	17%	19%	21%	23%	23%
El Salto - T18b 110kV L2	18%	19%	17%	19%	20%	22%	22%
FFCC - Tap Cisterna 110kV L1	28%	29%	29%	31%	34%	39%	36%
FFCC - Tap Cisterna 110kV L2	31%	33%	32%	34%	37%	43%	40%
Florida - Tap La Laja 110 kV L1	94%	99%	108%	110%	111%	123%	113%
Florida - Tap La Laja 110 kV L1_b	94%	99%	108%	110%	111%	123%	113%
Florida - Tap Las Vizcachas 110 kV L2	87%	91%	96%	97%	96%	103%	97%
Florida - Tap Sta Raquel 110 kV L1	12%	12%	11%	10%	9%	3%	8%
Florida - Tap Sta Raquel 110 kV L2	38%	40%	37%	37%	34%	44%	37%
L. Almendros - Alfalfa 220 kV	29%	31%	24%	23%	23%	23%	23%
La Laja - Guayacán	26%	27%	27%	27%	27%	28%	27%
Lo Aguirre - Lo Prado 110 kV	18%	19%	20%	21%	22%	27%	23%
Lo Prado - Curacavi 44 kV	17%	18%	19%	20%	20%	25%	22%
Lo Prado - Curacavi 44 kV 2	26%	27%	29%	31%	31%	39%	34%
Los Almendros - T82 110 kV L1	21%	23%	13%	14%	14%	16%	16%
Los Almendros - T82 110 kV L2	31%	33%	27%	29%	29%	34%	32%
Ochagavía - FFCC 110kV L1	27%	28%	28%	30%	33%	38%	36%
Ochagavía - FFCC 110kV L2	31%	33%	32%	34%	37%	43%	40%
Ochagavía_L.Cochrane - Metro 110 kV	19%	20%	21%	22%	23%	26%	24%
Ochagavía - Metro 110 kV	48%	51%	53%	55%	54%	59%	55%

Ochagavía - Tap Club Hípico 110 kV L1	10%	11%	7%	6%	8%	4%	8%
Ochagavía - Tap Club Hípico 110 kV L2	27%	29%	26%	28%	31%	34%	34%
Pachacama - Las Vegas 110 kV L2	5%	5%	10%	8%	7%	11%	7%
Panamericana - Acacias 110kV L1	32%	34%	40%	40%	38%	49%	40%
Polpaico - El Manzano 220kV C1	24%	25%	26%	28%	28%	34%	30%
Polpaico - El Manzano 220kV C2	22%	23%	24%	26%	26%	32%	28%
Polpaico - El Manzano+Tortolas 220 kV	0%	0%	0%	0%	0%	0%	0%
Polpaico - El Manzano+Tortolas 220(1)	0%	0%	0%	0%	0%	0%	0%
Punta Peuco - Las Vegas 110 KV L1	38%	40%	48%	50%	40%	44%	40%
Punta Peuco - Las Vegas 110 KV L2	10%	10%	18%	20%	9%	11%	8%
Quilicura - Tap Chacabuco 110 KV L2	18%	19%	17%	18%	21%	22%	23%
Renca - Metro 110 kV	19%	20%	20%	21%	21%	23%	22%
Renca - Tap Brasil 110kV L1	19%	19%	21%	22%	22%	26%	24%
Renca - Tap Brasil 110kV L2	10%	11%	11%	12%	12%	14%	13%
Renca_L.Cochrane - Metro 110 kV	16%	16%	17%	18%	18%	21%	19%
San Bernardo - Malloco 110kV	60%	63%	66%	69%	71%	84%	75%
San Pablo - Lo Aguirre 110 kV	24%	25%	27%	28%	29%	35%	31%
Sn Bernardo - Buin 110kV L1	29%	31%	34%	35%	35%	43%	37%
Sn Bernardo - Buin 110kV L2	29%	30%	34%	35%	34%	42%	36%
Sn Joaquin - Tap Sta Elena 110 kV L1	47%	50%	56%	56%	51%	63%	51%
Sn Joaquin - Tap Sta Elena 110 kV L2	25%	26%	29%	28%	22%	30%	20%
Sta Raquel - VV. Martinez 110 kV	0%	0%	0%	0%	0%	0%	0%
Sta. Marta - Padre Hurtado 110kV(1)	6%	7%	7%	7%	7%	9%	8%
T.Libertadores - Los Libertadores 1	15%	16%	17%	17%	17%	18%	17%
T.Libertadores - Los Libertadores 2	15%	16%	16%	16%	16%	18%	17%
T14 - Tap Dominicos 110kV L1	29%	31%	36%	36%	36%	42%	37%

T14 - Tap Dominicos 110kV L2	24%	25%	29%	29%	29%	34%	30%
T41 - Tap Apoquindo 110kV L2	25%	27%	33%	32%	32%	36%	32%
T41 - Tap Apoquindo 110kV L1	24%	25%	30%	29%	29%	32%	29%
T82 - Tap Andes 110 kV L1	30%	31%	18%	19%	20%	23%	22%
T82 - Tap Andes 110 kV L2	43%	46%	37%	39%	41%	46%	44%
TAP CODELCO VENTANAS - CODELCO VENTANAS	62%	65%	65%	65%	66%	69%	68%
Tap A. Norte - Algarrobo Norte C1 66 kV	1%	1%	1%	1%	1%	2%	2%
Tap A. Norte - Algarrobo Norte C2 66 kV	1%	1%	1%	1%	1%	1%	1%
Tap A. de Cordova - T41 110kV L1	24%	25%	30%	29%	29%	32%	29%
Tap A. de Cordova - T41 110kV L2	25%	27%	32%	32%	32%	36%	32%
Tap A.Córdova - A.Córdova 110kV L1a	60%	63%	66%	69%	71%	83%	76%
Tap A.Córdova - A.Córdova 110kV L2a	70%	73%	77%	80%	83%	97%	88%
Tap Altamirano - Altamirano 110kV L1	45%	48%	50%	52%	54%	64%	57%
Tap Altamirano - Altamirano 110kV L2	54%	57%	60%	63%	64%	77%	69%
Tap Altamirano - Renca 110 kV L1	18%	19%	20%	20%	21%	25%	22%
Tap Altamirano - Renca 110kV L2	16%	17%	18%	19%	19%	23%	21%
Tap Andes - Andes 110 kV L1	11%	12%	12%	13%	13%	15%	14%
Tap Andes - Andes 110 kV L2	13%	14%	14%	15%	15%	18%	16%
Tap Apoquindo - Apoquindo 110kV L1	95%	100%	106%	110%	114%	136%	122%
Tap Apoquindo - Apoquindo 110kV L2	43%	46%	48%	50%	51%	60%	55%
Tap Batuco - Batuco 110 kV C1	21%	22%	23%	24%	25%	29%	26%
Tap Batuco - Batuco 110 kV C2	21%	22%	23%	24%	25%	30%	27%
Tap Batuco - Punta Peuco 110 KV L1	18%	19%	31%	33%	21%	24%	20%
Tap Batuco - Punta Peuco 110kV L2	17%	18%	31%	33%	21%	24%	20%
Tap Bicentenario-Bicentenario 110 kV L1	3%	3%	3%	4%	4%	4%	4%
Tap Bicentenario-Bicentenario 110 kV L2	7%	7%	7%	8%	8%	9%	8%

Tap Brasil - Brasil 110kV L1	24%	25%	27%	28%	28%	34%	30%
Tap Brasil - Brasil 110kV L2	11%	11%	12%	12%	13%	15%	13%
Tap Carrascal - Carrascal 110kV L1	22%	23%	24%	25%	26%	30%	27%
Tap Carrascal - Carrascal 110kV L2	20%	21%	23%	23%	24%	28%	25%
Tap Chacabuco - Chacabuco 110kV L1	12%	13%	13%	14%	14%	17%	15%
Tap Chacabuco - Chacabuco 110kV L2	22%	23%	24%	25%	26%	31%	28%
Tap Chacabuco-Tap Recoleta 110 KV L1	3%	3%	2%	2%	3%	3%	3%
Tap Chacabuco-Tap Recoleta 110 KV L2	7%	7%	10%	11%	7%	13%	8%
Tap Chicureo - Chicureo 220kV L1	3%	4%	4%	4%	4%	5%	4%
Tap Chicureo - Chicureo 220kV L2	3%	4%	4%	4%	4%	5%	4%
Tap Chicureo - El Salto 220kV C1	21%	22%	23%	24%	24%	30%	26%
Tap Chicureo - El Salto 220kV C2	21%	22%	23%	25%	25%	30%	27%
Tap Cisterna - Cisterna 110kV L1	18%	19%	20%	21%	21%	25%	23%
Tap Cisterna - Cisterna 110kV L2	10%	10%	11%	11%	11%	13%	12%
Tap Cisterna - Lo Espejo 110 kV L2	37%	39%	39%	41%	45%	51%	48%
Tap Cisterna - Lo Espejo 110kV L1	40%	42%	42%	45%	48%	55%	52%
Tap Club Hípico - Club Hípico 110kV L1	8%	9%	9%	9%	10%	11%	10%
Tap Club Hípico - Club Hípico 110kV L2	35%	37%	39%	40%	41%	49%	44%
Tap Club Hípico-Tap San Joaquin 110kV L1	10%	11%	8%	7%	6%	4%	5%
Tap Club Hípico-Tap San Joaquin 110kV L2	7%	8%	3%	2%	5%	7%	6%
Tap ENAMI - San Pedro 110kV L1	24%	25%	27%	26%	25%	12%	11%
Tap ENAMI - San Pedro 110kV L2	24%	25%	27%	26%	25%	12%	11%
Tap El Manzano - El Manzano 220kV L1	11%	11%	11%	11%	11%	12%	11%
Tap El Manzano - El Manzano 220kV L2	0%	0%	0%	0%	0%	0%	0%
Tap El Manzano - Tap Chicureo 220kV C1	22%	23%	24%	26%	25%	32%	28%
Tap El Manzano - Tap Chicureo 220kV C2	22%	23%	24%	26%	26%	32%	28%

Tap FFCC L.Espejo-FFCC L.Espejo 110kV C1	1%	1%	1%	1%	1%	1%	1%
Tap FFCC L.Espejo-FFCC L.Espejo 110kV C2	0%	0%	0%	0%	0%	0%	0%
Tap La Dehesa - Tap Vitacura L1	14%	15%	13%	15%	16%	18%	18%
Tap La Dehesa - Tap Vitacura L2	12%	13%	11%	12%	13%	14%	15%
Tap La Laja - La Laja L1	0%	0%	0%	0%	0%	0%	0%
Tap La Laja - La Laja L2	5%	6%	6%	6%	6%	6%	6%
Tap La Laja - Maitenes 110 kV L1	70%	74%	75%	76%	77%	88%	80%
Tap La Laja - Maitenes 110 kV L1_a	69%	72%	74%	75%	76%	87%	79%
Tap La Laja - Maitenes 110 kV L2	67%	71%	73%	74%	75%	87%	78%
Tap La Laja - Maitenes 110 kV L2_a	69%	72%	74%	75%	76%	87%	79%
Tap La Laja - Queltehués 110 kV L1	33%	35%	35%	35%	35%	36%	35%
Tap La Laja - Queltehués 110 kV L2	33%	34%	34%	34%	35%	36%	35%
Tap La Reina - La Florida 110 kV L1	32%	33%	23%	23%	23%	26%	23%
Tap La Reina - La Florida 110 kV L2	39%	41%	36%	36%	37%	43%	38%
Tap La Reina - La Reina 110 kV L1	12%	13%	14%	14%	15%	17%	16%
Tap La Reina 110 kV L2	28%	29%	31%	32%	33%	38%	35%
Tap Lampa - Lampa 220kV L2	1%	1%	1%	1%	1%	1%	1%
Tap Las Acacias - Las Acacias 110kV L1	13%	14%	14%	15%	15%	18%	16%
Tap Las Acacias - Las Acacias 110kV L2	14%	15%	16%	17%	17%	20%	18%
Tap Las Vízcachas - P. Alto 110 kV	24%	25%	27%	28%	30%	37%	33%
Tap Las Vízcachas - Tap La Laja 110kV L2	104%	109%	120%	122%	123%	137%	127%
Tap Lo Boza - Lo Boza 110kV L1	25%	27%	28%	30%	30%	37%	32%
Tap Lo Boza - Lo Boza 110kV L2	28%	29%	32%	33%	34%	43%	37%
Tap Lo Boza - Quilicura 110KV L2	31%	33%	32%	33%	37%	40%	40%
Tap Lo Valledor - Lo Valledor 110 kV L2	14%	15%	16%	16%	17%	20%	18%
Tap Lo Valledor - Lo Valledor 110kV L1	55%	58%	61%	63%	65%	77%	69%

Tap LoBoza - Quilicura 110 KV L1	23%	25%	23%	23%	27%	29%	29%
Tap Los Dominicos-Los Almendros 110kV L1	26%	27%	31%	31%	32%	37%	33%
Tap Los Dominicos-Los Almendros 110kV L2	20%	21%	24%	24%	24%	28%	25%
Tap Los Dominicos-Los Dominicos 110kV L1	36%	38%	41%	42%	44%	52%	47%
Tap Los Dominicos-Los Dominicos 110kV L2	19%	20%	21%	22%	23%	27%	24%
Tap Macul - Florida 110 kV L1	25%	26%	28%	29%	28%	33%	28%
Tap Macul - Florida 110 kV L2	33%	35%	38%	39%	38%	45%	39%
Tap Macul - Macul 110 kV L1	7%	8%	8%	8%	8%	9%	9%
Tap Macul - Macul 110 kV L2	25%	27%	28%	29%	30%	35%	32%
Tap Maipu - Tap Sta Marta 110kV L1	27%	28%	32%	32%	31%	40%	33%
Tap Maipu - Tap Sta Marta 110kV L2	21%	22%	25%	25%	24%	31%	25%
Tap Maipú -Tap Maipú 110 kV L1	16%	17%	18%	18%	19%	22%	20%
Tap Maipú -Tap Maipú 110 kV L2	42%	44%	46%	48%	49%	58%	52%
Tap Mariscal - Mariscal 110kV L1	4%	4%	4%	4%	4%	5%	5%
Tap Mariscal - Mariscal 110kV L2	2%	3%	3%	3%	3%	3%	3%
Tap Pajaritos - Pajaritos 110 kV L1	57%	60%	64%	66%	68%	81%	72%
Tap Pajaritos - Pajaritos 110 kV L2	35%	37%	40%	41%	42%	52%	45%
Tap Pajaritos - Tap Valledor 110kV L1	13%	14%	16%	16%	15%	20%	15%
Tap Pajaritos - Tap Valledor 110kV L2	12%	13%	14%	14%	13%	18%	13%
Tap Panamericana - Tap Acacias 110kV L2	31%	33%	38%	39%	37%	48%	38%
Tap Panamericana-Panamericana 110 kV L1	22%	23%	25%	25%	26%	31%	28%
Tap Panamericana-Panamericana 110 kV L2	12%	13%	13%	14%	14%	17%	15%
Tap Pintana - Pintana 110kV L1	23%	24%	25%	26%	27%	31%	28%
Tap Pintana - Pintana 110kV L2	7%	7%	8%	8%	8%	9%	9%
Tap Pintana - Torre1 110kV L1	44%	46%	46%	47%	47%	56%	50%
Tap Pintana - Torre1 110kV L2	34%	36%	35%	36%	36%	43%	38%

Tap Pudahuel - Pudahuel 110 kV L1	41%	44%	46%	48%	49%	59%	53%
Tap Pudahuel - Pudahuel 110 kV L2	14%	15%	16%	16%	17%	20%	18%
Tap Pudahuel - Tap San Jose 110kV L1	13%	14%	9%	10%	13%	11%	14%
Tap Pudahuel - Tap San Jose 110kV L2	9%	9%	3%	3%	5%	2%	5%
Tap Quilicura - Quilicura 110kV L1	36%	38%	40%	42%	43%	50%	45%
Tap Quilicura - Quilicura 110kV L2	60%	63%	67%	70%	72%	86%	77%
Tap Quilicura - Tap Chacabuco 110 KV L1	15%	16%	14%	14%	18%	17%	19%
Tap Recoleta - Recoleta 110kV L1	18%	19%	20%	21%	22%	26%	23%
Tap Recoleta - Recoleta 110kV L2	17%	18%	19%	20%	20%	24%	22%
Tap Recoleta - Sn Cristobal 110kV L1	8%	8%	11%	11%	9%	14%	9%
Tap Recoleta - Sn Cristobal 110kV L2	12%	13%	16%	17%	14%	21%	15%
Tap San Bernardo - San Bernardo 110kV L1	36%	38%	40%	42%	43%	51%	46%
Tap San Bernardo - San Bernardo 110kV L2	35%	36%	38%	40%	41%	48%	43%
Tap San Jose - Tap Pajaritos 110kV L1	7%	8%	3%	2%	3%	3%	3%
Tap Sn Joaquin-Tap Sn Joaquin 110 kV L1	26%	27%	28%	29%	30%	36%	32%
Tap Sn Joaquin-Tap Sn Joaquin 110 kV L2	17%	18%	19%	19%	20%	24%	21%
Tap Ssn Jose - Tap Pajaritos 110kV L2	9%	10%	7%	6%	6%	8%	5%
Tap Sta Elena - Sta Elena 110 kV L1	13%	14%	15%	15%	16%	18%	17%
Tap Sta Elena - Sta Elena 110 kV L2	27%	29%	30%	31%	32%	38%	34%
Tap Sta Elena - Tap Macul 110 kV L1	31%	33%	37%	37%	35%	44%	36%
Tap Sta Elena - Tap Macul 110 kV L2	30%	32%	35%	36%	34%	42%	34%
Tap Sta Marta - Sta Marta 110 kV L1	15%	16%	17%	17%	18%	21%	19%
Tap Sta Marta - Sta Marta 110 kV L2	31%	33%	35%	36%	37%	44%	40%
Tap Sta Raquel - Sta Raquel 110 kV L1	50%	53%	55%	57%	59%	69%	63%
Tap Sta Raquel - Sta Raquel 110 kV L2	18%	19%	19%	20%	21%	24%	22%
Tap Sta Raquel - Sta Rosa 110kV L1	33%	35%	31%	32%	28%	35%	31%

Tap Sta Raquel - Sta Rosa 110kV L2	46%	49%	46%	47%	44%	56%	48%
Tap Sta Rosa - Sta Rosa 110 kV L1	39%	41%	42%	44%	45%	53%	48%
Tap Sta Rosa - Sta Rosa 110 kV L2	20%	21%	22%	22%	23%	27%	25%
Tap Sta Rosa - Tap Pintana 110kV L1	31%	33%	32%	33%	33%	40%	35%
Tap Sta Rosa - Tap Pintana 110kV L2	30%	31%	30%	31%	30%	37%	33%
Tap Valledor - Tap Maipu 110kV L1	24%	25%	29%	29%	28%	36%	30%
Tap Valledor - Tap Maipu 110kV L2	14%	15%	17%	17%	16%	22%	16%
Tap Valpar - Tap Playa Ancha 110 kV L1	25%	27%	0%	0%	0%	0%	0%
Tap Valpar - Tap Playa Ancha 110 kV L2	36%	38%	0%	0%	0%	0%	0%
Tap Vitacura-Tap A. de Cordova 110kV L1	12%	13%	16%	15%	15%	12%	14%
Tap Vitacura-Tap A. de Cordova 110kV L2	9%	10%	14%	12%	12%	12%	10%
Torre 18 - La Dehesa 110kV L1	16%	17%	18%	18%	19%	22%	20%
Torre 18 - La Dehesa 110kV L2	27%	28%	30%	31%	32%	38%	34%
Torre 28 - San Pablo 110kV	21%	22%	24%	25%	25%	30%	27%
Torre 99 - Lo Aguirre 110 kV	7%	7%	8%	8%	8%	10%	9%

Tabla 6.4.35. Cargabilidad de líneas de transmisión en escenario Invierno Día, Zona Región Metropolitana.

Línea	2019	2020	2021	2022	2023	2024	2025
Acacias - Sn Bernardo 110kV L1	55%	60%	61%	63%	65%	70%	73%
Acacias - Sn Bernardo 110kV L2	52%	56%	58%	59%	62%	66%	69%
Alfalfal - Maitenes	38%	41%	41%	42%	42%	43%	45%
Alto Jahuel - Buin 220kV	64%	69%	71%	73%	75%	80%	84%
Alto Jahuel - Los Almendros 220kV - L1	23%	25%	26%	27%	29%	32%	34%
Alto Jahuel - Los Almendros 220kV - L2	23%	25%	26%	27%	29%	32%	34%
Alto Jahuel - Tap Buin 110kV L1	54%	59%	60%	62%	63%	67%	70%
Alto Jahuel - Tap Buin 110kV L2	43%	46%	47%	49%	49%	52%	55%
Andes - Tap La Reina 110 kV L1	10%	11%	10%	11%	12%	12%	12%

Andes - Tap La Reina 110 kV L2	27%	29%	30%	32%	34%	35%	37%
Apoquindo - T14 110kV L1	29%	31%	32%	32%	32%	35%	36%
Apoquindo - T14 110kV L2	23%	25%	26%	26%	26%	28%	29%
Buin - Tap Buin 110 kV L1	0%	0%	0%	0%	0%	0%	0%
Buin - Tap Buin 110 kV L2	0%	0%	0%	0%	0%	0%	0%
C.Navia - Tap Batuco 110 KV L1	23%	25%	19%	19%	19%	23%	23%
C.Navia - Tap Batuco 110 KV L2	19%	20%	15%	15%	14%	17%	17%
C.Navia - Tap Lo Boza 110 KV L1	27%	29%	31%	32%	32%	34%	36%
C.Navia - Tap Lo Boza 110kV L2	37%	40%	42%	43%	44%	46%	49%
C.Navia - Tap Los Libertadores 110 KV L1	44%	47%	40%	39%	39%	43%	44%
C.Navia - Tap Los Libertadores 110 KV L2	39%	42%	34%	34%	34%	37%	38%
C.Navia - Tap Pudahuel 110kV L1	17%	19%	20%	22%	23%	23%	25%
C.Navia - Tap Pudahuel 110kV L2	9%	9%	11%	12%	13%	13%	14%
Carena - Lo Prado 44 kV C1	0%	0%	0%	0%	0%	0%	0%
Carena - Lo Prado 44 kV C2	0%	0%	0%	0%	0%	0%	0%
Cerro Navia - Arra. Chena 220 kV -L1	17%	18%	19%	19%	22%	28%	29%
Cerro Navia - Arra. Chena 220 kV -L1_a	23%	25%	26%	25%	27%	34%	34%
Cerro Navia - San Pablo 110 kV	34%	36%	38%	39%	40%	42%	44%
Cerro Navia - Tap Altamirano 110 KV L1	21%	23%	24%	25%	25%	26%	28%
Cerro Navia - Tap Altamirano 110 KV L2	22%	23%	24%	25%	26%	27%	28%
Chena - Lo Espejo 110 kV L1	43%	47%	49%	52%	54%	55%	59%
Chena - Lo Espejo 110 kV L2	30%	32%	34%	36%	38%	38%	42%
Chena - Tap Sta Marta 110kV L1	35%	38%	38%	39%	40%	43%	45%
Chena - Tap Sta Marta 110kV L2	33%	35%	36%	37%	37%	40%	42%
El Salto - San Cristobal 110 kV L11	15%	16%	16%	16%	17%	18%	19%
El Salto - San Cristobal 110 kV L21	15%	17%	17%	17%	18%	19%	20%

El Salto - T18b 110kV L1	20%	22%	23%	25%	26%	27%	29%
El Salto - T18b 110kV L2	17%	18%	19%	21%	22%	23%	25%
FFCC - Tap Cisterna 110kV L1	35%	37%	39%	41%	43%	45%	48%
FFCC - Tap Cisterna 110kV L2	40%	43%	45%	48%	50%	52%	56%
Florida - Tap La Laja 110 kV L1	97%	104%	106%	107%	109%	112%	115%
Florida - Tap La Laja 110 kV L1_b	97%	105%	106%	107%	109%	112%	115%
Florida - Tap Las Vizcachas 110 kV L2	85%	91%	91%	92%	92%	94%	94%
Florida - Tap Sta Raquel 110 kV L1	15%	17%	14%	11%	9%	7%	6%
Florida - Tap Sta Raquel 110 kV L2	45%	48%	49%	49%	49%	52%	54%
L. Almendros - Alfalfa 220 kV	25%	27%	27%	27%	27%	27%	28%
La Laja - Guayacán	26%	27%	28%	28%	28%	28%	28%
Lo Aguirre - Lo Prado 110 kV	16%	18%	18%	19%	20%	21%	22%
Lo Prado - Curacavi 44 kV	13%	14%	14%	15%	16%	16%	17%
Lo Prado - Curacavi 44 kV 2	26%	28%	29%	31%	31%	33%	35%
Los Almendros - T82 110 kV L1	19%	20%	21%	22%	24%	24%	26%
Los Almendros - T82 110 kV L2	32%	34%	35%	38%	40%	41%	44%
Ochagavía - FFCC 110kV L1	34%	36%	38%	40%	42%	44%	47%
Ochagavía - FFCC 110kV L2	40%	43%	45%	48%	50%	52%	56%
Ochagavía_L.Cochrane - Metro 110 kV	14%	15%	16%	16%	17%	17%	18%
Ochagavía - Metro 110 kV	43%	46%	47%	49%	50%	52%	55%
Ochagavía - Tap Club Hípico 110 kV L1	14%	15%	15%	16%	16%	17%	18%
Ochagavía - Tap Club Hípico 110 kV L2	33%	35%	37%	39%	40%	42%	45%
Pachacama - Las Vegas 110 kV L2	7%	8%	13%	11%	11%	15%	15%
Panamericana - Acacias 110kV L1	31%	33%	34%	35%	36%	40%	42%
Polpaico - El Manzano 220kV C1	19%	20%	21%	22%	23%	24%	26%
Polpaico - El Manzano 220kV C2	18%	19%	20%	21%	22%	22%	24%

Polpaico - El Manzano+Tortolas 220 kV	0%	0%	0%	0%	0%	0%	0%
Polpaico - El Manzano+Tortolas 220(1)	0%	0%	0%	0%	0%	0%	0%
Punta Peuco - Las Vegas 110 KV L1	8%	9%	15%	16%	17%	15%	17%
Punta Peuco - Las Vegas 110 KV L2	8%	9%	15%	16%	17%	15%	17%
Quilicura - Tap Chacabuco 110 KV L2	20%	21%	23%	24%	24%	25%	27%
Renca - Metro 110 kV	19%	20%	20%	21%	21%	21%	22%
Renca - Tap Brasil 110kV L1	13%	14%	15%	15%	16%	16%	17%
Renca - Tap Brasil 110kV L2	9%	10%	10%	10%	11%	11%	12%
Renca_L.Cochrane - Metro 110 kV	14%	15%	16%	16%	16%	17%	18%
San Bernardo - Malloco 110kV	53%	57%	59%	62%	64%	67%	70%
San Pablo - Lo Aguirre 110 kV	23%	25%	25%	26%	27%	29%	30%
Sn Bernardo - Buin 110kV L1	34%	36%	37%	39%	40%	42%	44%
Sn Bernardo - Buin 110kV L2	31%	33%	34%	35%	36%	38%	40%
Sn Joaquin - Tap Sta Elena 110 kV L1	32%	34%	33%	32%	31%	31%	31%
Sn Joaquin - Tap Sta Elena 110 kV L2	13%	13%	12%	10%	10%	8%	7%
Sta Raquel - VV. Martinez 110 kV	0%	0%	0%	0%	0%	0%	0%
Sta. Marta - Padre Hurtado 110kV(1)	6%	7%	7%	7%	7%	8%	8%
T.Los Libertadores - Los Libertadores 1	15%	16%	16%	16%	16%	17%	17%
T.Los Libertadores - Los Libertadores 2	15%	16%	16%	16%	16%	16%	17%
T14 - Tap Dominicos 110kV L1	29%	31%	32%	32%	32%	35%	36%
T14 - Tap Dominicos 110kV L2	23%	25%	26%	26%	26%	28%	29%
T41 - Tap Apoquindo 110kV L2	22%	23%	24%	24%	23%	26%	26%
T41 - Tap Apoquindo 110kV L1	17%	18%	18%	18%	18%	20%	19%
T82 - Tap Andes 110 kV L1	26%	28%	29%	31%	33%	34%	36%
T82 - Tap Andes 110 kV L2	44%	47%	49%	52%	55%	57%	60%
TAP CODELCO VENTANAS - CODELCO VENTANAS	62%	67%	69%	71%	74%	77%	78%

Tap A. Norte - Algarrobo Norte C1 66 kV	1%	1%	1%	1%	1%	1%	1%
Tap A. Norte - Algarrobo Norte C2 66 kV	1%	1%	1%	1%	1%	1%	1%
Tap A. de Cordova - T41 110kV L1	17%	18%	18%	18%	18%	20%	19%
Tap A. de Cordova - T41 110kV L2	22%	23%	24%	24%	23%	26%	26%
Tap A.Córdova - A.Córdova 110kV L1a	52%	55%	57%	59%	61%	64%	67%
Tap A.Córdova - A.Córdova 110kV L2a	79%	85%	88%	92%	94%	98%	104%
Tap Altamirano - Altamirano 110kV L1	41%	44%	46%	47%	49%	51%	54%
Tap Altamirano - Altamirano 110kV L2	58%	63%	65%	68%	70%	73%	77%
Tap Altamirano - Renca 110 kV L1	15%	16%	16%	17%	17%	18%	19%
Tap Altamirano - Renca 110kV L2	13%	14%	14%	14%	15%	15%	16%
Tap Andes - Andes 110 kV L1	16%	17%	18%	19%	19%	20%	21%
Tap Andes - Andes 110 kV L2	15%	16%	17%	18%	18%	19%	20%
Tap Apoquindo - Apoquindo 110kV L1	120%	129%	134%	139%	144%	150%	160%
Tap Apoquindo - Apoquindo 110kV L2	56%	60%	62%	65%	67%	70%	74%
Tap Batuco - Batuco 110 kV C1	19%	21%	21%	22%	23%	24%	25%
Tap Batuco - Batuco 110 kV C2	13%	14%	14%	14%	15%	16%	16%
Tap Batuco - Punta Peuco 110 KV L1	9%	10%	19%	20%	21%	20%	22%
Tap Batuco - Punta Peuco 110kV L2	8%	9%	15%	17%	17%	17%	18%
Tap Bicentenario-Bicentenario 110 kV L1	3%	3%	3%	3%	3%	3%	4%
Tap Bicentenario-Bicentenario 110 kV L2	3%	3%	3%	3%	3%	3%	4%
Tap Brasil - Brasil 110kV L1	14%	15%	16%	17%	17%	18%	19%
Tap Brasil - Brasil 110kV L2	9%	10%	10%	11%	11%	11%	12%
Tap Carrascal - Carrascal 110kV L1	24%	26%	27%	28%	29%	30%	31%
Tap Carrascal - Carrascal 110kV L2	19%	20%	21%	22%	23%	24%	25%
Tap Chacabuco - Chacabuco 110kV L1	11%	12%	12%	12%	13%	13%	14%
Tap Chacabuco - Chacabuco 110kV L2	15%	16%	17%	17%	18%	19%	20%

Tap Chacabuco-Tap Recoleta 110 KV L1	10%	11%	12%	12%	12%	13%	13%
Tap Chacabuco-Tap Recoleta 110 KV L2	6%	6%	7%	7%	7%	7%	7%
Tap Chicureo - Chicureo 220kV L1	3%	4%	4%	4%	4%	4%	4%
Tap Chicureo - Chicureo 220kV L2	3%	4%	4%	4%	4%	4%	4%
Tap Chicureo - El Salto 220kV C1	16%	18%	18%	19%	20%	21%	22%
Tap Chicureo - El Salto 220kV C2	17%	18%	18%	20%	21%	21%	22%
Tap Cisterna - Cisterna 110kV L1	24%	26%	27%	28%	28%	30%	31%
Tap Cisterna - Cisterna 110kV L2	13%	14%	14%	15%	15%	16%	17%
Tap Cisterna - Lo Espejo 110 kV L2	48%	52%	54%	57%	59%	62%	66%
Tap Cisterna - Lo Espejo 110kV L1	51%	54%	57%	60%	62%	65%	69%
Tap Club Hípico - Club Hípico 110kV L1	8%	8%	8%	9%	9%	9%	10%
Tap Club Hípico - Club Hípico 110kV L2	32%	35%	36%	37%	38%	40%	43%
Tap Club Hípico-Tap San Joaquin 110kV L1	11%	12%	12%	12%	12%	12%	13%
Tap Club Hípico-Tap San Joaquin 110kV L2	14%	15%	15%	16%	17%	18%	19%
Tap ENAMI - San Pedro 110kV L1	25%	27%	23%	22%	20%	5%	5%
Tap ENAMI - San Pedro 110kV L2	25%	27%	23%	22%	20%	5%	5%
Tap El Manzano - El Manzano 220kV L1	10%	11%	11%	11%	11%	11%	11%
Tap El Manzano - El Manzano 220kV L2	0%	0%	0%	0%	0%	0%	0%
Tap El Manzano - Tap Chicureo 220kV C1	18%	19%	20%	21%	22%	22%	24%
Tap El Manzano - Tap Chicureo 220kV C2	18%	19%	20%	21%	22%	22%	24%
Tap FFCC L.Espejo-FFCC L.Espejo 110kV C1	1%	1%	1%	1%	1%	1%	1%
Tap FFCC L.Espejo-FFCC L.Espejo 110kV C2	0%	0%	0%	0%	0%	0%	0%
Tap La Dehesa - Tap Vitacura L1	14%	15%	16%	17%	19%	19%	21%
Tap La Dehesa - Tap Vitacura L2	12%	13%	14%	15%	16%	16%	18%
Tap La Laja - La Laja L1	0%	0%	0%	0%	0%	0%	0%
Tap La Laja - La Laja L2	5%	6%	6%	6%	6%	6%	6%

Tap La Laja - Maitenes 110 kV L1	72%	77%	78%	80%	81%	83%	85%
Tap La Laja - Maitenes 110 kV L1_a	71%	77%	78%	79%	81%	83%	85%
Tap La Laja - Maitenes 110 kV L2	70%	76%	77%	78%	80%	82%	85%
Tap La Laja - Maitenes 110 kV L2_a	71%	77%	78%	79%	81%	83%	85%
Tap La Laja - Queltehue 110 kV L1	33%	35%	35%	35%	36%	36%	36%
Tap La Laja - Queltehue 110 kV L2	32%	35%	35%	35%	36%	36%	37%
Tap La Reina - La Florida 110 kV L1	30%	32%	33%	33%	32%	35%	37%
Tap La Reina - La Florida 110 kV L2	44%	47%	49%	49%	49%	53%	56%
Tap La Reina - La Reina 110 kV L1	20%	22%	23%	24%	25%	26%	27%
Tap La Reina 110 kV L2	39%	42%	44%	45%	47%	49%	52%
Tap Lampa - Lampa 220kV L2	1%	1%	1%	1%	1%	1%	1%
Tap Las Acacias - Las Acacias 110kV L1	19%	21%	22%	22%	23%	24%	25%
Tap Las Acacias - Las Acacias 110kV L2	6%	6%	7%	7%	7%	7%	8%
Tap Las Vizcachas - P. Alto 110 kV	30%	32%	34%	36%	37%	39%	42%
Tap Las Vizcachas - Tap La Laja 110kV L2	109%	117%	119%	121%	123%	126%	130%
Tap Lo Boza - Lo Boza 110kV L1	11%	12%	12%	12%	13%	13%	14%
Tap Lo Boza - Lo Boza 110kV L2	26%	28%	29%	30%	31%	32%	34%
Tap Lo Boza - Quilicura 110KV L2	33%	35%	37%	39%	39%	41%	44%
Tap Lo Valledor - Lo Valledor 110 kV L2	12%	13%	14%	14%	15%	15%	16%
Tap Lo Valledor - Lo Valledor 110kV L1	51%	55%	57%	59%	61%	64%	68%
Tap LoBoza - Quilicura 110 KV L1	30%	32%	34%	35%	35%	37%	40%
Tap Los Dominicos-Los Almendros 110kV L1	27%	29%	30%	30%	31%	33%	34%
Tap Los Dominicos-Los Almendros 110kV L2	19%	21%	21%	21%	22%	23%	24%
Tap Los Dominicos-Los Dominicos 110kV L1	46%	50%	52%	54%	56%	58%	62%
Tap Los Dominicos-Los Dominicos 110kV L2	19%	20%	21%	21%	22%	23%	24%
Tap Macul - Florida 110 kV L1	22%	24%	24%	24%	24%	25%	25%

Tap Macul - Florida 110 kV L2	31%	34%	34%	35%	35%	37%	38%
Tap Macul - Macul 110 kV L1	8%	9%	9%	9%	10%	10%	10%
Tap Macul - Macul 110 kV L2	29%	31%	33%	34%	35%	36%	38%
Tap Maipu - Tap Sta Marta 110kV L1	26%	27%	28%	28%	29%	31%	32%
Tap Maipu - Tap Sta Marta 110kV L2	20%	22%	22%	22%	22%	24%	25%
Tap Maipú - Tap Maipú 110 kV L1	13%	14%	14%	15%	15%	16%	16%
Tap Maipú - Tap Maipú 110 kV L2	33%	35%	36%	38%	39%	40%	42%
Tap Mariscal - Mariscal 110kV L1	12%	12%	13%	13%	14%	14%	15%
Tap Mariscal - Mariscal 110kV L2	5%	5%	5%	5%	5%	6%	6%
Tap Pajaritos - Pajaritos 110 kV L1	63%	68%	70%	73%	75%	78%	83%
Tap Pajaritos - Pajaritos 110 kV L2	47%	50%	52%	54%	56%	59%	62%
Tap Pajaritos - Tap Valledor 110kV L1	13%	14%	14%	14%	14%	16%	16%
Tap Pajaritos - Tap Valledor 110kV L2	12%	13%	13%	13%	13%	15%	15%
Tap Panamericana - Tap Acacias 110kV L2	45%	48%	49%	51%	53%	57%	59%
Tap Panamericana-Panamericana 110 kV L1	21%	23%	23%	24%	25%	26%	28%
Tap Panamericana-Panamericana 110 kV L2	11%	12%	12%	13%	13%	14%	15%
Tap Pintana - Pintana 110kV L1	25%	27%	27%	29%	29%	31%	32%
Tap Pintana - Pintana 110kV L2	9%	10%	11%	11%	11%	12%	12%
Tap Pintana - Torre1 110kV L1	53%	57%	59%	61%	62%	65%	68%
Tap Pintana - Torre1 110kV L2	42%	45%	46%	47%	48%	51%	53%
Tap Pudahuel - Pudahuel 110 kV L1	38%	41%	43%	44%	45%	47%	50%
Tap Pudahuel - Pudahuel 110 kV L2	14%	15%	15%	16%	16%	17%	18%
Tap Pudahuel - Tap San Jose 110kV L1	13%	14%	15%	17%	18%	18%	20%
Tap Pudahuel - Tap San Jose 110kV L2	7%	8%	9%	11%	11%	11%	13%
Tap Quilicura - Quilicura 110kV L1	44%	47%	49%	50%	52%	54%	57%
Tap Quilicura - Quilicura 110kV L2	57%	61%	63%	65%	67%	70%	74%

Tap Quilicura - Tap Chacabuco 110 KV L1	20%	21%	23%	24%	24%	25%	27%
Tap Recoleta - Recoleta 110kV L1	17%	18%	18%	19%	20%	21%	22%
Tap Recoleta - Recoleta 110kV L2	18%	19%	20%	21%	21%	22%	24%
Tap Recoleta - Sn Cristobal 110kV L1	2%	3%	2%	2%	3%	2%	2%
Tap Recoleta - Sn Cristobal 110kV L2	6%	7%	6%	6%	7%	7%	7%
Tap San Bernardo - San Bernardo 110kV L1	39%	42%	44%	45%	47%	49%	52%
Tap San Bernardo - San Bernardo 110kV L2	34%	36%	37%	39%	40%	42%	44%
Tap San Jose - Tap Pajaritos 110kV L1	3%	3%	4%	6%	6%	7%	8%
Tap Sn Joaquin-Tap Sn Joaquin 110 kV L1	27%	29%	30%	32%	33%	34%	36%
Tap Sn Joaquin-Tap Sn Joaquin 110 kV L2	16%	18%	18%	19%	19%	20%	22%
Tap Ssn Jose - Tap Pajaritos 110kV L2	4%	4%	5%	6%	6%	7%	8%
Tap Sta Elena - Sta Elena 110 kV L1	17%	18%	18%	19%	20%	21%	22%
Tap Sta Elena - Sta Elena 110 kV L2	32%	35%	36%	37%	38%	40%	42%
Tap Sta Elena - Tap Macul 110 kV L1	26%	28%	28%	28%	28%	30%	30%
Tap Sta Elena - Tap Macul 110 kV L2	25%	26%	26%	26%	26%	27%	28%
Tap Sta Marta - Sta Marta 110 kV L1	19%	21%	21%	22%	23%	24%	25%
Tap Sta Marta - Sta Marta 110 kV L2	26%	28%	29%	31%	32%	33%	35%
Tap Sta Raquel - Sta Raquel 110 kV L1	69%	74%	76%	80%	82%	86%	91%
Tap Sta Raquel - Sta Raquel 110 kV L2	30%	33%	34%	35%	36%	38%	40%
Tap Sta Raquel - Sta Rosa 110kV L1	43%	46%	47%	47%	46%	49%	50%
Tap Sta Raquel - Sta Rosa 110kV L2	59%	64%	65%	66%	66%	71%	74%
Tap Sta Rosa - Sta Rosa 110 kV L1	38%	40%	42%	43%	45%	47%	49%
Tap Sta Rosa - Sta Rosa 110 kV L2	19%	20%	21%	21%	22%	23%	24%
Tap Sta Rosa - Tap Pintana 110kV L1	35%	38%	39%	40%	40%	43%	45%
Tap Sta Rosa - Tap Pintana 110kV L2	35%	37%	38%	39%	40%	42%	44%
Tap Valledor - Tap Maipu 110kV L1	23%	25%	25%	26%	26%	28%	29%

Tap Valledor - Tap Maipu 110kV L2	15%	16%	15%	16%	16%	18%	18%
Tap Valpar - Tap Playa Ancha 110 kV L1	18%	19%	0%	0%	0%	0%	0%
Tap Valpar - Tap Playa Ancha 110 kV L2	26%	28%	0%	0%	0%	0%	0%
Tap Vitacura-Tap A. de Cordova 110kV L1	9%	10%	10%	11%	11%	12%	12%
Tap Vitacura-Tap A. de Cordova 110kV L2	6%	6%	6%	7%	7%	8%	8%
Torre 18 - La Dehesa 110kV L1	28%	31%	32%	33%	34%	35%	37%
Torre 18 - La Dehesa 110kV L2	23%	24%	25%	26%	27%	28%	30%
Torre 28 - San Pablo 110kV	21%	23%	23%	24%	25%	26%	28%
Torre 99 - Lo Aguirre 110 kV	7%	8%	8%	8%	9%	9%	9%

Tabla 6.4.36. Cargabilidad de líneas de transmisión en escenario Invierno Noche, Zona Región Metropolitana.

Líneas	2019	2020	2021	2022	2023	2024	2025
Acacias - Sn Bernardo 110kV L1	59%	64%	66%	67%	70%	75%	78%
Acacias - Sn Bernardo 110kV L2	56%	60%	62%	64%	66%	71%	74%
Alfalfal - Maitenes	40%	43%	44%	45%	45%	47%	48%
Alto Jahuel - Buin 220kV	68%	74%	76%	78%	81%	86%	90%
Alto Jahuel - Los Almendros 220kV - L1	25%	27%	28%	29%	31%	34%	37%
Alto Jahuel - Los Almendros 220kV - L2	25%	27%	28%	29%	31%	34%	37%
Alto Jahuel - Tap Buin 110kV L1	58%	63%	65%	67%	68%	72%	76%
Alto Jahuel - Tap Buin 110kV L2	46%	49%	51%	52%	53%	56%	59%
Andes - Tap La Reina 110 kV L1	11%	11%	11%	12%	13%	12%	13%
Andes - Tap La Reina 110 kV L2	29%	31%	32%	34%	37%	37%	40%
Apoquindo - T14 110kV L1	31%	33%	34%	34%	35%	37%	38%
Apoquindo - T14 110kV L2	25%	27%	28%	28%	28%	30%	31%
Buin - Tap Buin 110 kV L1	0%	0%	0%	0%	0%	0%	0%
Buin - Tap Buin 110 kV L2	0%	0%	0%	0%	0%	0%	0%

C.Navia - Tap Batuco 110 KV L1	25%	27%	21%	21%	21%	24%	25%
C.Navia - Tap Batuco 110 KV L2	20%	22%	16%	16%	16%	19%	19%
C.Navia - Tap Lo Boza 110 KV L1	29%	31%	33%	34%	35%	36%	39%
C.Navia - Tap Lo Boza 110kV L2	39%	42%	45%	46%	47%	50%	52%
C.Navia - Tap Los Libertadores 110 KV L1	47%	51%	42%	42%	42%	46%	47%
C.Navia - Tap Los Libertadores 110 KV L2	42%	45%	37%	36%	36%	40%	40%
C.Navia - Tap Pudahuel 110kV L1	19%	20%	22%	24%	25%	25%	27%
C.Navia - Tap Pudahuel 110kV L2	9%	10%	11%	13%	14%	14%	15%
Carena - Lo Prado 44 kV C1	0%	0%	0%	0%	0%	0%	0%
Carena - Lo Prado 44 kV C2	0%	0%	0%	0%	0%	0%	0%
Cerro Navia - Arra. Chena 220 kV -L1	18%	20%	20%	21%	23%	30%	31%
Cerro Navia - Arra. Chena 220 kV -L1_a	25%	27%	27%	27%	29%	36%	37%
Cerro Navia - San Pablo 110 kV	36%	39%	40%	42%	43%	45%	48%
Cerro Navia - Tap Altamirano 110 KV L1	23%	25%	26%	27%	27%	28%	30%
Cerro Navia - Tap Altamirano 110 KV L2	23%	25%	26%	27%	27%	29%	30%
Chena - Lo Espejo 110 kV L1	46%	50%	53%	56%	58%	59%	64%
Chena - Lo Espejo 110 kV L2	32%	34%	36%	39%	40%	41%	45%
Chena - Tap Sta Marta 110kV L1	38%	41%	41%	42%	43%	46%	48%
Chena - Tap Sta Marta 110kV L2	35%	38%	38%	39%	40%	43%	45%
El Salto - San Cristobal 110 kV L11	16%	17%	17%	18%	19%	19%	20%
El Salto - San Cristobal 110 kV L21	17%	18%	18%	19%	20%	20%	21%
El Salto - T18b 110kV L1	22%	23%	24%	27%	28%	28%	31%
El Salto - T18b 110kV L2	18%	20%	21%	23%	24%	24%	26%
FFCC - Tap Cisterna 110kV L1	37%	40%	42%	44%	46%	49%	52%
FFCC - Tap Cisterna 110kV L2	43%	46%	49%	51%	53%	56%	60%
Florida - Tap La Laja 110 kV L1	104%	112%	113%	115%	117%	120%	123%

Florida - Tap La Laja 110 kV L1_b	104%	112%	114%	115%	117%	120%	123%
Florida - Tap Las Vizcachas 110 kV L2	91%	97%	98%	98%	99%	100%	101%
Florida - Tap Sta Raquel 110 kV L1	17%	18%	16%	12%	10%	8%	6%
Florida - Tap Sta Raquel 110 kV L2	48%	51%	52%	53%	52%	56%	58%
L. Almendros - Alfalfa 220 kV	27%	29%	29%	29%	29%	29%	30%
La Laja - Guayacán	27%	29%	30%	30%	30%	30%	30%
Lo Aguirre - Lo Prado 110 kV	18%	19%	20%	20%	21%	22%	23%
Lo Prado - Curacavi 44 kV	14%	15%	16%	16%	17%	17%	19%
Lo Prado - Curacavi 44 kV 2	28%	30%	31%	33%	34%	35%	38%
Los Almendros - T82 110 kV L1	20%	22%	22%	24%	26%	26%	28%
Los Almendros - T82 110 kV L2	34%	37%	38%	40%	43%	44%	47%
Ochagavía - FFCC 110kV L1	36%	39%	41%	43%	45%	47%	51%
Ochagavía - FFCC 110kV L2	43%	46%	49%	51%	53%	56%	60%
Ochagavía_L.Cochrane - Metro 110 kV	15%	17%	17%	17%	18%	18%	19%
Ochagavía - Metro 110 kV	46%	49%	51%	53%	54%	56%	59%
Ochagavía - Tap Club Hípico 110 kV L1	15%	16%	16%	17%	18%	18%	19%
Ochagavía - Tap Club Hípico 110 kV L2	35%	38%	40%	41%	43%	45%	48%
Pachacama - Las Vegas 110 kV L2	8%	9%	14%	12%	12%	17%	16%
Panamericana - Acacias 110kV L1	33%	36%	37%	37%	39%	43%	45%
Polpaico - El Manzano 220kV C1	20%	22%	22%	24%	25%	26%	27%
Polpaico - El Manzano 220kV C2	19%	21%	21%	22%	24%	24%	26%
Polpaico - El Manzano+Tortolas 220 kV	0%	0%	0%	0%	0%	0%	0%
Polpaico - El Manzano+Tortolas 220(1)	0%	0%	0%	0%	0%	0%	0%
Punta Peuco - Las Vegas 110 KV L1	9%	10%	16%	17%	18%	16%	18%
Punta Peuco - Las Vegas 110 KV L2	9%	10%	16%	17%	19%	16%	18%
Quilicura - Tap Chacabuco 110 KV L2	21%	23%	25%	25%	26%	27%	29%

Renca - Metro 110 kV	20%	21%	22%	22%	22%	23%	23%
Renca - Tap Brasil 110kV L1	14%	15%	16%	16%	17%	17%	18%
Renca - Tap Brasil 110kV L2	10%	10%	11%	11%	11%	12%	12%
Renca_L.Cochane - Metro 110 kV	15%	16%	17%	17%	18%	18%	19%
San Bernardo - Malloco 110kV	57%	61%	64%	66%	68%	71%	75%
San Pablo - Lo Aguirre 110 kV	24%	26%	27%	28%	29%	31%	32%
Sn Bernardo - Buin 110kV L1	36%	39%	40%	41%	43%	45%	48%
Sn Bernardo - Buin 110kV L2	33%	35%	36%	37%	39%	41%	43%
Sn Joaquin - Tap Sta Elena 110 kV L1	34%	37%	36%	35%	33%	34%	33%
Sn Joaquin - Tap Sta Elena 110 kV L2	13%	14%	13%	11%	11%	8%	8%
Sta Raquel - VV. Martinez 110 kV	0%	0%	0%	0%	0%	0%	0%
Sta. Marta - Padre Hurtado 110kV(1)	7%	7%	7%	8%	8%	8%	9%
T.Los Libertadores - Los Libertadores 1	16%	17%	17%	18%	18%	18%	18%
T.Los Libertadores - Los Libertadores 2	16%	17%	17%	17%	17%	18%	18%
T14 - Tap Dominicos 110kV L1	31%	33%	34%	34%	35%	37%	38%
T14 - Tap Dominicos 110kV L2	25%	27%	28%	28%	28%	30%	31%
T41 - Tap Apoquindo 110kV L2	23%	25%	25%	25%	25%	27%	27%
T41 - Tap Apoquindo 110kV L1	18%	20%	20%	20%	19%	21%	21%
T82 - Tap Andes 110 kV L1	28%	30%	31%	33%	36%	36%	39%
T82 - Tap Andes 110 kV L2	47%	51%	53%	56%	59%	61%	65%
TAP CODELCO VENTANAS - CODELCO VENTANAS	67%	72%	74%	76%	79%	82%	83%
Tap A. Norte - Algarrobo Norte C1 66 kV	1%	1%	1%	1%	1%	1%	1%
Tap A. Norte - Algarrobo Norte C2 66 kV	1%	1%	1%	1%	1%	1%	1%
Tap A. de Cordova - T41 110kV L1	18%	20%	20%	20%	19%	21%	21%
Tap A. de Cordova - T41 110kV L2	23%	25%	25%	25%	25%	27%	27%
Tap A.Córdova - A.Córdova 110kV L1a	55%	59%	62%	64%	66%	68%	72%

Tap A.Córdoba - A.Córdoba 110kV L2a	85%	92%	95%	98%	101%	106%	111%
Tap Altamirano - Altamirano 110kV L1	44%	47%	49%	51%	52%	55%	58%
Tap Altamirano - Altamirano 110kV L2	63%	67%	70%	72%	75%	78%	83%
Tap Altamirano - Renca 110 kV L1	16%	17%	18%	18%	19%	19%	20%
Tap Altamirano - Renca 110kV L2	13%	14%	15%	15%	16%	16%	17%
Tap Andes - Andes 110 kV L1	17%	18%	19%	20%	20%	21%	23%
Tap Andes - Andes 110 kV L2	16%	18%	18%	19%	20%	20%	22%
Tap Apoquindo - Apoquindo 110kV L1	129%	138%	143%	149%	154%	161%	171%
Tap Apoquindo - Apoquindo 110kV L2	60%	65%	67%	70%	72%	75%	79%
Tap Batuco - Batuco 110 kV C1	21%	22%	23%	24%	24%	25%	27%
Tap Batuco - Batuco 110 kV C2	14%	15%	15%	16%	16%	17%	18%
Tap Batuco - Punta Peuco 110 KV L1	10%	10%	20%	22%	23%	22%	23%
Tap Batuco - Punta Peuco 110kV L2	8%	9%	16%	18%	19%	18%	19%
Tap Bicentenario-Bicentenario 110 kV L1	3%	3%	3%	3%	3%	4%	4%
Tap Bicentenario-Bicentenario 110 kV L2	3%	3%	3%	3%	3%	4%	4%
Tap Brasil - Brasil 110kV L1	15%	17%	17%	18%	18%	19%	20%
Tap Brasil - Brasil 110kV L2	10%	11%	11%	11%	12%	12%	13%
Tap Carrascal - Carrascal 110kV L1	26%	28%	29%	30%	31%	32%	34%
Tap Carrascal - Carrascal 110kV L2	20%	22%	23%	23%	24%	25%	27%
Tap Chacabuco - Chacabuco 110kV L1	12%	13%	13%	13%	14%	14%	15%
Tap Chacabuco - Chacabuco 110kV L2	16%	17%	18%	19%	19%	20%	21%
Tap Chacabuco-Tap Recoleta 110 KV L1	11%	11%	13%	13%	13%	13%	14%
Tap Chacabuco-Tap Recoleta 110 KV L2	6%	6%	8%	7%	7%	8%	8%
Tap Chicureo - Chicureo 220kV L1	4%	4%	4%	4%	4%	4%	5%
Tap Chicureo - Chicureo 220kV L2	4%	4%	4%	4%	4%	4%	5%
Tap Chicureo - El Salto 220kV C1	18%	19%	19%	21%	22%	22%	24%

Tap Chicureo - El Salto 220kV C2	18%	19%	20%	21%	22%	22%	24%
Tap Cisterna - Cisterna 110kV L1	26%	28%	29%	30%	30%	32%	34%
Tap Cisterna - Cisterna 110kV L2	14%	15%	15%	16%	16%	17%	18%
Tap Cisterna - Lo Espejo 110 kV L2	52%	55%	58%	61%	64%	66%	71%
Tap Cisterna - Lo Espejo 110kV L1	54%	58%	61%	64%	67%	70%	74%
Tap Club Hípico - Club Hípico 110kV L1	8%	9%	9%	9%	10%	10%	11%
Tap Club Hípico - Club Hípico 110kV L2	34%	37%	38%	40%	41%	43%	46%
Tap Club Hípico-Tap San Joaquin 110kV L1	12%	13%	13%	13%	13%	13%	14%
Tap Club Hípico-Tap San Joaquin 110kV L2	15%	16%	16%	17%	18%	19%	21%
Tap ENAMI - San Pedro 110kV L1	27%	29%	25%	24%	21%	6%	6%
Tap ENAMI - San Pedro 110kV L2	27%	29%	25%	24%	21%	6%	6%
Tap El Manzano - El Manzano 220kV L1	11%	12%	12%	12%	12%	12%	12%
Tap El Manzano - El Manzano 220kV L2	0%	0%	0%	0%	0%	0%	0%
Tap El Manzano - Tap Chicureo 220kV C1	19%	20%	21%	22%	23%	24%	25%
Tap El Manzano - Tap Chicureo 220kV C2	19%	21%	21%	22%	24%	24%	26%
Tap FFCC L.Espejo-FFCC L.Espejo 110kV C1	1%	1%	1%	1%	1%	1%	1%
Tap FFCC L.Espejo-FFCC L.Espejo 110kV C2	0%	0%	0%	0%	0%	0%	0%
Tap La Dehesa - Tap Vitacura L1	15%	16%	17%	19%	20%	20%	22%
Tap La Dehesa - Tap Vitacura L2	13%	14%	15%	16%	17%	17%	19%
Tap La Laja - La Laja L1	0%	0%	0%	0%	0%	0%	0%
Tap La Laja - La Laja L2	6%	6%	6%	6%	6%	6%	6%
Tap La Laja - Maitenes 110 kV L1	77%	83%	84%	85%	87%	89%	91%
Tap La Laja - Maitenes 110 kV L1_a	76%	82%	83%	85%	86%	89%	91%
Tap La Laja - Maitenes 110 kV L2	75%	81%	82%	84%	86%	88%	91%
Tap La Laja - Maitenes 110 kV L2_a	76%	82%	83%	85%	86%	89%	91%
Tap La Laja - Queltehues 110 kV L1	35%	38%	38%	38%	38%	38%	39%

Tap La Laja - Queltehues 110 kV L2	35%	37%	38%	38%	38%	39%	39%
Tap La Reina - La Florida 110 kV L1	32%	34%	35%	35%	34%	37%	39%
Tap La Reina - La Florida 110 kV L2	47%	51%	52%	53%	53%	57%	60%
Tap La Reina - La Reina 110 kV L1	22%	24%	24%	25%	26%	28%	29%
Tap La Reina 110 kV L2	42%	45%	47%	49%	50%	52%	56%
Tap Lampa - Lampa 220kV L2	1%	1%	1%	1%	1%	1%	1%
Tap Las Acacias - Las Acacias 110kV L1	21%	22%	23%	24%	25%	26%	27%
Tap Las Acacias - Las Acacias 110kV L2	6%	7%	7%	7%	8%	8%	8%
Tap Las Vízcachas - P. Alto 110 kV	32%	34%	36%	38%	40%	42%	45%
Tap Las Vízcachas - Tap La Laja 110kV L2	117%	126%	127%	130%	132%	135%	139%
Tap Lo Boza - Lo Boza 110kV L1	12%	12%	13%	13%	14%	14%	15%
Tap Lo Boza - Lo Boza 110kV L2	28%	30%	31%	32%	33%	34%	37%
Tap Lo Boza - Quilicura 110KV L2	35%	38%	40%	41%	42%	44%	47%
Tap Lo Valledor - Lo Valledor 110 kV L2	13%	14%	15%	15%	16%	16%	17%
Tap Lo Valledor - Lo Valledor 110kV L1	55%	59%	61%	64%	66%	69%	73%
Tap LoBoza - Quilicura 110 KV L1	32%	34%	36%	37%	38%	40%	42%
Tap Los Dominicos-Los Almendros 110kV L1	29%	31%	32%	33%	33%	35%	37%
Tap Los Dominicos-Los Almendros 110kV L2	21%	22%	23%	23%	23%	25%	25%
Tap Los Dominicos-Los Dominicos 110kV L1	50%	54%	56%	58%	60%	63%	66%
Tap Los Dominicos-Los Dominicos 110kV L2	20%	21%	22%	23%	24%	25%	26%
Tap Macul - Florida 110 kV L1	23%	25%	25%	26%	26%	27%	27%
Tap Macul - Florida 110 kV L2	34%	36%	37%	37%	38%	39%	41%
Tap Macul - Macul 110 kV L1	9%	10%	10%	10%	10%	11%	11%
Tap Macul - Macul 110 kV L2	31%	34%	35%	36%	37%	39%	41%
Tap Maipu - Tap Sta Marta 110kV L1	27%	29%	30%	30%	31%	33%	34%
Tap Maipu - Tap Sta Marta 110kV L2	22%	23%	23%	23%	24%	26%	27%

Tap Maipú - Tap Maipú 110 kV L1	14%	15%	15%	16%	16%	17%	18%
Tap Maipú - Tap Maipú 110 kV L2	35%	38%	39%	40%	41%	43%	45%
Tap Mariscal - Mariscal 110kV L1	12%	13%	14%	14%	15%	15%	16%
Tap Mariscal - Mariscal 110kV L2	5%	5%	5%	6%	6%	6%	6%
Tap Pajaritos - Pajaritos 110 kV L1	68%	73%	75%	78%	80%	84%	89%
Tap Pajaritos - Pajaritos 110 kV L2	50%	54%	56%	58%	60%	63%	67%
Tap Pajaritos - Tap Valledor 110kV L1	14%	15%	14%	15%	15%	17%	17%
Tap Pajaritos - Tap Valledor 110kV L2	13%	14%	14%	14%	14%	16%	16%
Tap Panamericana - Tap Acacias 110kV L2	48%	52%	53%	54%	57%	61%	64%
Tap Panamericana-Panamericana 110 kV L1	23%	24%	25%	26%	27%	28%	30%
Tap Panamericana-Panamericana 110 kV L2	12%	13%	13%	14%	14%	15%	16%
Tap Pintana - Pintana 110kV L1	26%	28%	29%	31%	32%	33%	35%
Tap Pintana - Pintana 110kV L2	10%	11%	11%	12%	12%	13%	13%
Tap Pintana - Torre1 110kV L1	57%	61%	63%	65%	66%	70%	73%
Tap Pintana - Torre1 110kV L2	45%	48%	49%	51%	51%	54%	57%
Tap Pudahuel - Pudahuel 110 kV L1	41%	44%	46%	47%	49%	51%	53%
Tap Pudahuel - Pudahuel 110 kV L2	15%	16%	16%	17%	18%	18%	19%
Tap Pudahuel - Tap San Jose 110kV L1	14%	15%	16%	18%	19%	19%	21%
Tap Pudahuel - Tap San Jose 110kV L2	8%	8%	10%	12%	12%	12%	14%
Tap Quilicura - Quilicura 110kV L1	47%	51%	52%	54%	56%	58%	61%
Tap Quilicura - Quilicura 110kV L2	61%	65%	67%	70%	72%	75%	80%
Tap Quilicura - Tap Chacabuco 110 KV L1	21%	23%	25%	25%	25%	27%	29%
Tap Recoleta - Recoleta 110kV L1	18%	19%	20%	20%	21%	22%	23%
Tap Recoleta - Recoleta 110kV L2	19%	21%	21%	22%	23%	24%	26%
Tap Recoleta - Sn Cristobal 110kV L1	3%	3%	3%	3%	3%	2%	2%
Tap Recoleta - Sn Cristobal 110kV L2	6%	7%	7%	7%	7%	7%	7%

Tap San Bernardo - San Bernardo 110kV L1	42%	45%	47%	49%	50%	52%	55%
Tap San Bernardo - San Bernardo 110kV L2	36%	39%	40%	42%	43%	45%	48%
Tap San Jose - Tap Pajaritos 110kV L1	3%	3%	4%	6%	7%	7%	8%
Tap Sn Joaquin-Tap Sn Joaquin 110 kV L1	29%	31%	33%	34%	35%	37%	39%
Tap Sn Joaquin-Tap Sn Joaquin 110 kV L2	18%	19%	20%	20%	21%	22%	23%
Tap Ssn Jose - Tap Pajaritos 110kV L2	4%	5%	5%	6%	6%	8%	8%
Tap Sta Elena - Sta Elena 110 kV L1	18%	19%	20%	21%	21%	22%	23%
Tap Sta Elena - Sta Elena 110 kV L2	35%	37%	39%	40%	41%	43%	45%
Tap Sta Elena - Tap Macul 110 kV L1	28%	30%	30%	31%	31%	32%	33%
Tap Sta Elena - Tap Macul 110 kV L2	26%	28%	28%	28%	28%	29%	30%
Tap Sta Marta - Sta Marta 110 kV L1	21%	22%	23%	24%	25%	26%	27%
Tap Sta Marta - Sta Marta 110 kV L2	28%	31%	32%	33%	34%	35%	37%
Tap Sta Raquel - Sta Raquel 110 kV L1	74%	79%	82%	85%	88%	92%	98%
Tap Sta Raquel - Sta Raquel 110 kV L2	33%	35%	36%	38%	39%	41%	43%
Tap Sta Raquel - Sta Rosa 110kV L1	46%	50%	50%	50%	49%	52%	54%
Tap Sta Raquel - Sta Rosa 110kV L2	63%	68%	70%	71%	71%	76%	79%
Tap Sta Rosa - Sta Rosa 110 kV L1	40%	43%	45%	47%	48%	50%	53%
Tap Sta Rosa - Sta Rosa 110 kV L2	20%	21%	22%	23%	24%	25%	26%
Tap Sta Rosa - Tap Pintana 110kV L1	38%	41%	42%	43%	43%	46%	48%
Tap Sta Rosa - Tap Pintana 110kV L2	37%	40%	41%	42%	43%	45%	48%
Tap Valledor - Tap Maipu 110kV L1	25%	27%	27%	27%	28%	31%	31%
Tap Valledor - Tap Maipu 110kV L2	16%	17%	17%	17%	17%	19%	19%
Tap Valpar - Tap Playa Ancha 110 kV L1	19%	21%	0%	0%	0%	0%	0%
Tap Valpar - Tap Playa Ancha 110 kV L2	28%	30%	0%	0%	0%	0%	0%
Tap Vitacura-Tap A. de Cordova 110kV L1	10%	10%	10%	12%	12%	13%	13%
Tap Vitacura-Tap A. de Cordova 110kV L2	6%	6%	6%	8%	8%	9%	9%

Torre 18 - La Dehesa 110kV L1	31%	33%	34%	35%	36%	38%	40%
Torre 18 - La Dehesa 110kV L2	24%	26%	27%	28%	29%	30%	32%
Torre 28 - San Pablo 110kV	23%	24%	25%	26%	27%	28%	30%
Torre 99 - Lo Aguirre 110 kV	8%	8%	9%	9%	9%	10%	10%

6.4.5 ZONA ALTO JAHUEL - CHARRÚA

6.4.5.1 Transformadores AT/MT

Tabla 6.4.37. Cargabilidad de transformadores AT/MT, Zona Alto Jahuel - Charrúa.

Transformador	2019	2020	2021	2022	2023	2024	2025
ALAMEDA 66/MT 25 MVA T1	88%	93%	98%	80%	80%	80%	80%
ALAMEDA 66/MT 25 MVA T2	103%	109%	114%	80%	80%	80%	80%
ALAMEDA 66/MT 40 MVA T3				39%	47%	54%	62%
ALCONES 66/MT 10 MVA T1	92%	97%	80%	80%	80%	80%	80%
ALCONES 66/MT 15 MVA T2			14%	18%	22%	25%	29%
ALHUE 66/MT 20 MVA T1	59%	60%	61%	62%	63%	64%	66%
BOLLENAR 110/MT 20 MVA T1	62%	66%	69%	73%	77%	81%	85%
BUIN 66/MT 30 MVA T1	68%	71%	74%	78%	81%	85%	89%
BUIN 66/MT 30 MVA T2	71%	75%	78%	82%	86%	90%	94%
CACHAPOAL 66/MT 25 MVA T1	98%	103%	108%	114%	120%	126%	132%
CACHAPOAL 66/MT 25 MVA T2	87%	92%	96%	101%	106%	112%	117%
CAUQUENES 66/MT 12 MVA T3	92%	97%	80%	80%	80%	80%	80%
CAUQUENES 66/MT 20 MVA TX			13%	17%	20%	23%	27%
CHACAHUÍN 66/MT 30 MVA T2	74%	78%	83%	87%	91%	96%	101%
CHILLÁN 66/MT 25 MVA T1	60%	63%	66%	70%	73%	77%	81%
CHILLÁN 66/MT 30 MVA T2	50%	52%	55%	58%	61%	64%	68%
CHILLÁN 66/MT 30 MVA T4	50%	52%	55%	58%	61%	64%	67%
CHIMBARONGO 66/MT 9,4 MVA T1	69%	73%	77%	81%	85%	90%	94%

Transformador	2019	2020	2021	2022	2023	2024	2025
CHIMBARONGO 66/MT 9,4 MVA T2	76%	80%	85%	89%	94%	99%	104%
CHOCALÁN 66/MT 10 MVA T1	88%	92%	97%	102%	107%	112%	118%
CHUMAQUITO 66/MT 18,7 MVA T1	74%	78%	82%	86%	91%	95%	100%
CIRUELITO 33/13,2 kV 1MVA	92%	97%	102%	54%	56%	59%	62%
COCHARCAS 66/MT 12 MVA TX	72%	76%	80%	84%	89%	93%	98%
COCHARCAS 66/MT 4,2 MVA T1	70%	74%	78%	82%	87%	91%	96%
COCHARCAS 66/MT 5 MVA T2	50%	53%	56%	59%	62%	65%	68%
COLCHAGUA 66/15 10,5 MVA T1	99%	104%	109%	40%	44%	49%	54%
COLCHAGUA 66/15 18,7 MVA T2	64%	68%	71%	75%	79%	82%	86%
CONSTITUCIÓN 66/MT 10 MVA T2	30%	30%	30%	30%	30%	31%	31%
CONSTITUCIÓN 66/MT 20 MVA T1	172%	172%	80%	80%	80%	80%	80%
CONSTITUCIÓN 66/MT 30 MVA T3			62%	63%	64%	64%	65%
CURICÓ 66/MT 25 MVA T1	98%	103%	80%	80%	80%	80%	100%
CURICÓ 66/MT 30 MVA T2	105%	111%	80%	80%	80%	80%	100%
CURICÓ 66/MT 30 MVA T5	38%	40%	61%	71%	83%	94%	70%
EL MAITÉN 66/MT 10 MVA T1	74%	78%	83%	87%	92%	96%	101%
EL MANZANO 66/MT 4 MVA T2	66%	70%	74%	77%	81%	85%	90%
EL MANZANO 66/MT 6,67 MVA T1	64%	67%	71%	74%	78%	82%	86%
EL MONTE 66/MT 10 MVA T1	92%	97%	102%	43%	45%	48%	50%
EL PAICO 66/MT 20 MVA T1	39%	41%	44%	46%	48%	51%	53%
EL PEUMO 66/MT 30 MVA T1	40%	42%	44%	46%	48%	50%	52%

Transformador	2019	2020	2021	2022	2023	2024	2025
FÁTIMA 66/MT 30 MVA T1	81%	86%	90%	95%	100%	105%	110%
FÁTIMA 66/MT 30 MVA T2	85%	90%	94%	99%	105%	110%	115%
GRANEROS 66/MT 30 MVA T2	92%	97%	102%	80%	80%	80%	80%
GRANEROS 66/MT 30 MVA T3				27%	33%	39%	45%
HOSPITAL 66/MT 18,7 MVA T2	73%	77%	81%	85%	90%	94%	99%
HUALAÑÉ 66/MT 5 MVA T1	76%	80%	84%	89%	94%	98%	103%
HUALTE 66/MT 2 MVA T2	60%	64%	67%	70%	74%	78%	82%
HUALTE 66/MT 2 MVA T3	46%	49%	51%	54%	57%	60%	63%
HUALTE 66/MT 10 MVA	88%	93%	98%	103%	109%	115%	120%
ISLA DE MAIPO 66/12 25 MVA T1	68%	72%	75%	79%	80%	80%	80%
ISLA DE MAIPO 66/MT 11,2 MVA T2	78%	83%	87%	92%	97%	102%	107%
ISLA DE MAIPO 66/MT 30 MVA T3	51%	54%	56%	59%	66%	72%	79%
ITAHUE 66/MT 6,25 MVA T3	66%	68%	70%	73%	76%	78%	81%
LA ESPERANZA 66/MT 12 MVA T1	76%	80%	83%	80%	80%	80%	80%
LA ESPERANZA 66/MT 15 MVA T2				5%	8%	11%	14%
LA MANGA 66/MT 20 MVA T1	57%	59%	62%	64%	67%	70%	73%
LA PALMA 66/MT 10 MVA T1	85%	90%	95%	80%	80%	80%	80%
LA PALMA 66/MT 6,3 MVA T2	83%	88%	93%	27%	30%	33%	36%
LA RONDA 66/MT 13,3 MVA T1	77%	80%	83%	86%	90%	93%	97%
LA VEGA 66/23 10 MVA T1	58%	61%	65%	68%	72%	75%	79%
LARQUI 66/23 KV 16 MVA							

Transformador	2019	2020	2021	2022	2023	2024	2025
LAS ARAÑAS 66/MT 10 MVA T4	62%	64%	66%	68%	70%	73%	75%
LAS ARAÑAS 66/MT 12 MVA T3	40%	41%	42%	44%	45%	47%	48%
LAS CABRAS 66/MT 10 MVA T1	65%	68%	71%	74%	78%	81%	85%
LAS CABRAS 66/MT 9 MVA T2	72%	76%	79%	83%	87%	90%	95%
LICANTÉN 66/MT 10 MVA T1	65%	69%	73%	76%	80%	84%	89%
LIHUEIMO 66/MT 12,5 MVA T1	98%	103%	109%	114%	80%	80%	80%
LIHUEIMO 66/MT 15 MVA TX					34%	39%	44%
LINARES NORTE 66/13,2 kV 10 MVA	97%	102%	43%	45%	47%	49%	51%
LINARES NORTE 66/13,8 kV 10 MVA	0%	0%	0%	0%	0%	0%	0%
LINARES NORTE 66/13,8 kV 25 MVA	67%	70%	73%	77%	81%	84%	88%
LO MIRANDA 66/MT 18,7 MVA T1	49%	51%	52%	53%	54%	55%	56%
LO MIRANDA 66/MT 30 MVA T2	64%	65%	66%	68%	70%	71%	73%
LONGAVI 66/13,2KV 12.5 MVA	79%	83%	88%	38%	41%	43%	45%
LORETO 66/MT 10,5 MVA T1	85%	90%	95%	100%	55%	58%	61%
LOS MAQUIS 66/13,8 kV 10 MVA		54%	59%	64%	70%	75%	80%
LOS TILOS BULNES 66/13,8 KV 12 MVA		18%	26%	33%	42%	50%	59%
MACHALÍ 66/MT 30 MVA T1	64%	68%	72%	75%	80%	84%	88%
MALLOA 66/MT 5 MVA T1		0%	0%	22%	28%	33%	39%
MALLOA 66/MT 5,2 MVA T1	86%	91%	96%	80%	80%	80%	80%
MANDINGA 66/MT 8 MVA T1	76%	80%	83%	86%	48%	50%	52%
MARCHIGÜE 66/MT 10 MVA T1	85%	90%	94%	99%	105%	110%	116%

Transformador	2019	2020	2021	2022	2023	2024	2025
MARCHIGÜE 66/MT 10 MVA T2	81%	86%	90%	95%	100%	105%	111%
MAULE 66/13,8 4,85 MVA T3	86%	91%	45%	47%	50%	53%	55%
MELIPILLA 110/MT 25 MVA T1	77%	82%	80%	80%	80%	80%	80%
MELIPILLA 110/MT 30 MVA T3	41%	43%	50%	56%	63%	69%	76%
MOLINA 66/MT 20 MVA T2	83%	88%	92%	97%	80%	80%	80%
MOLINA 66/MT 30 MVA T1	75%	80%	84%	88%	80%	80%	80%
MOLINA 66/MT 30 MVA TX					28%	36%	44%
NANCAGUA 66/MT 10 MVA T1	96%	101%	106%	80%	80%	80%	80%
NANCAGUA 66/MT 15 MVA T2				21%	25%	29%	34%
NIRIVILO 66/MT 5 MVA T1	69%	73%	77%	81%	86%	90%	95%
NIRIVILO 66/MT 5 MVA T2	55%	58%	61%	65%	68%	71%	75%
PANGUILEMO 66/MT 9 MVA T1	78%	82%	86%	91%	96%	101%	106%
PANIAHUE 66/MT 20 MVA T1	92%	97%	102%	80%	80%	80%	80%
PANIAHUE 66/MT 30 MVA T2				18%	22%	26%	30%
PANIMAVIDA 66/13,2KV 5 MVA 1	79%	83%	44%	46%	49%	51%	54%
PANIMAVIDA 66/13,2KV 5 MVA 2	90%	95%	50%	53%	56%	58%	61%
PARRAL 66/MT 30 MVA T3	72%	76%	80%	84%	88%	93%	97%
PARRONAL 66/MT 5 MVA T1	76%	80%	85%	89%	94%	99%	104%
PASO HONDO 66/13,2K 12.5 MVA	29%	31%	33%	35%	36%	38%	40%
PELEQUEN 66/MT 4 MVA T1	89%	94%	99%	105%	110%	116%	122%
PIDUCO 66/MT 18,7 MVA T1	39%	41%	43%	70%	78%	86%	94%

Transformador	2019	2020	2021	2022	2023	2024	2025
PIDUCO 66/MT 30 MVA T2	104%	109%	115%	80%	80%	80%	80%
PLACILLA 66/MT 10 MVA T2	70%	74%	78%	82%	86%	90%	95%
PORTEZUELO 6/MT 10,35 MVA T3	53%	54%	55%	57%	58%	59%	61%
PUNTA CORTES 66/15 30 MVA T1		0%	1%	5%	9%	16%	22%
QUELENTARO 110/MT 13 MVA T5	82%	87%	92%	96%	102%	107%	112%
QUILMO 66/33 kV 8-10 MVA	84%	80%	80%	80%	80%	80%	80%
QUILMO II 66/33 kV 12 MVA.		0%	11%	15%	20%	24%	29%
QUINTA 66/13,8 kV 5.2MVA 1	52%	55%	58%	61%	64%	67%	70%
QUINTA 66/13,8 kV 5.2MVA 2	52%	55%	58%	61%	64%	67%	70%
QUINTA DE TILCOCO 66/MT 18,7 MVA T2	63%	66%	70%	74%	78%	82%	86%
QUINTA DE TILCOCO 66/MT 5,2 MVA T3	0%	0%	0%	0%	0%	0%	0%
QUIRIHUE 66/MT 10 MVA T1	74%	78%	83%	87%	92%	96%	101%
RANGUILÍ 66/MT 5,2 MVA T1	85%	90%	95%	100%	105%	111%	116%
RANGUILÍ 66/MT 5 MVA T2	84%	88%	93%	98%	103%	108%	114%
RAUQUÉN 66/MT 25 MVA T1	53%	56%	59%	62%	65%	68%	72%
RAUQUÉN 66/MT 30 MVA T2	70%	74%	78%	83%	87%	91%	96%
RECINTO 33/23 kV 4 MVA	59%	62%	66%	69%	73%	76%	80%
RENGO 66/MT 30 MVA T1	61%	64%	67%	70%	74%	77%	81%
RETIRO 66/MT 5 MVA T1 y T2	66%	70%	73%	77%	81%	85%	90%
ROSARIO 66/15 30 MVA T1	61%	63%	64%	66%	67%	69%	71%
SAN CARLOS 66/MT 18,7 MVA T1	83%	88%	92%	80%	80%	80%	80%

Transformador	2019	2020	2021	2022	2023	2024	2025
SAN CARLOS 66/MT 30 MVA T2				10%	13%	16%	20%
SAN CLEMENTE 66/MT 10 MVA T1	92%	97%	102%	107%	57%	60%	63%
SAN FCO. DE MOSTAZAL 66/MT 15 MVA T1	79%	81%	83%	85%	88%	91%	93%
SAN FCO. DE MOSTAZAL 66/MT 30 MVA T2	54%	56%	57%	59%	61%	62%	64%
SAN FERNANDO 66/MT 18,7 MVA T1	60%	63%	66%	70%	73%	77%	81%
SAN GREGORIO 66/13,2 kv 2.6MVA	142%	150%	158%	80%	80%	80%	80%
SAN GREGORIO 66/13,2 kv 5 MVA	71%	75%	79%	32%	34%	37%	39%
SAN JAVIER 66/MT 5 MVA T1	91%	96%	34%	35%	37%	39%	41%
SAN MIGUEL 66/MT 16,6 MVA T1	84%	89%	93%	98%	103%	108%	114%
SAN RAFAEL 66/MT 16 MVA T1	107%	114%	120%	126%	133%	139%	147%
SAN VICENTE T.T. 66/MT 18,7 MVA T1	73%	76%	79%	71%	77%	82%	87%
SAN VICENTE T.T. 66/MT 25 MVA T2	94%	97%	101%	80%	80%	80%	80%
SANTA ELISA 33/23 kv 6-8 MVA	71%	75%	79%	84%	88%	93%	97%
SANTA ELVIRA 66/MT 25 MVA T1	87%	91%	96%	100%	106%	111%	116%
SANTA ELVIRA 66/MT 25 MVA T2	92%	97%	102%	107%	113%	118%	124%
SANTA ROSA 66/MT 20 MVA T1	34%	36%	38%	40%	42%	44%	46%
TALCA 66/13,8 10 MVA T3	72%	76%	80%	84%	88%	93%	98%
TALCA 66/MT 30 MVA T1	84%	89%	94%	98%	104%	109%	114%
TALCA 66/MT 30 MVA T2	106%	112%	90%	95%	95%	110%	110%
TALCA 66/MT 30 MVA T4	54%	58%	89%	93%	103%	98%	109%

Transformador	2019	2020	2021	2022	2023	2024	2025
TENO 69/MT 10 MVA T2	154%	158%	163%	168%	173%	178%	183%
TRES ESQUINAS T1 66/13,8 kV 8-10 MVA	94%	99%	104%	110%	116%	122%	128%
TRES ESQUINAS T2 66/13,8 kV 6-8 MVA	79%	84%	88%	93%	98%	103%	108%
TUNICHE 66/MT 18,7 MVA T1	83%	87%	91%	95%	100%	104%	108%
VILLA ALEGRE 66/MT 10 MVA T1	49%	51%	54%	57%	60%	63%	66%
VILLA PRAT 66/MT 10,6 MVA T1 yT2	75%	80%	84%	88%	93%	98%	103%
YERBAS BUENAS 154/13,2KV 25 MVA	46%	49%	52%	54%	57%	60%	63%

6.4.5.2 Transformadores AT/AT

Tabla 6.4.38. Cargabilidad de transformadores AT/AT en escenario Verano Día, Zona Alto Jahuel - Charrúa.

Transformador	2019	2020	2021	2022	2023	2024	2025
Alto Jahuel 220/154 kV-300 MVA	73%	62%	69%	78%	89%	94%	55%
Charrua 220/154 kV-390 MVA	53%	54%	53%	53%	54%	54%	54%
Chillan 154/66 kV_75 MVA_3	36%	45%	48%	50%	51%	53%	56%
Fátima 154/69/14.8 1	88%	102%	110%	133%	139%	155%	74%
Fátima 154/69/14.8 2							66%
Itahue 154/66 kV TR5N 100 MVA	41%	44%	45%	49%	53%	48%	46%
Itahue 154/66 kV-56 MVA T2	39%	40%	40%	45%	47%	44%	42%
Itahue 154/66 kV-56 MVA T5	62%	61%	59%	65%	66%	64%	62%
Itahue 154/66 kV-75 MVA T1	46%	46%	45%	50%	60%	58%	57%
Itahue 300 MVA 220/154/66 kV	78%	48%	51%	55%	58%	55%	49%
Las Arañas T1 110/66 kV-50 MVA	36%	48%	49%	52%	54%	54%	53%
Las Arañas T2 110/66 kV-50 MVA	46%	49%	50%	53%	63%	64%	62%
Linares 154/69 kV_75 MVA_1	15%	43%	43%	52%	56%	35%	29%
Malloa 154/69 kV 1	51%	58%	62%	93%	94%	93%	89%
Malloa 154/69 kV 2	50%	57%	61%	73%	76%	78%	66%
Maule 154/66 kV-25 MVA 2	46%	69%	82%	90%	93%	89%	78%
Maule 154/66 kV-60 MVA 1	58%	70%	84%	92%	94%	91%	80%
Maule 220/154 kV-300 MVA 1		42%	48%	53%	56%	60%	50%
Monterrico 154/66 kV - 60/75 MVA (T1)	56%	94%	90%	98%	83%	38%	43%
Nuevo TR Monterrico 154/66 kV					23%	71%	76%
Paine 154/66 kV 1	24%	33%	36%	37%	40%	42%	
Paine 154/66 kV 2	75%	83%	90%	72%	75%	75%	43%

Transformador	2019	2020	2021	2022	2023	2024	2025
Parral 154/66 kV-15 MVA	0%	0%	0%	0%	0%	0%	0%
Parral 154/66 kV-56 MVA	59%	63%	71%	72%	78%	74%	39%
PCortes 154/69 kV_56 MVA_1	86%	100%	105%	109%	113%	118%	115%
PCortes 154/69 kV_60 MVA_2	97%	94%	59%	62%	66%	69%	69%
N TR PCortes 154/69 kV 75 MVA_3			35%	37%	39%	41%	41%
Portezuelo T1 110/66 kV-50 MVA	93%	55%	55%	61%	67%	93%	48%
Portezuelo T2 110/66 kV-18 MVA	22%	27%	27%	29%	30%		
Quelentaro 220/110 kV-65 MVA	41%	59%	63%	68%	74%	87%	51%
Rancagua 154/66 kV (fundición talleres)	0%	0%	0%	0%	0%	0%	0%
Rancagua 154/69 kV-45/56 MVA T1	77%	71%	76%	80%	83%	88%	89%
Rancagua 154/69 kV-60/75 MVA T4	35%	63%	66%	75%	77%	80%	67%
San Fernando 154/69 kV 1	70%	100%	105%	99%	104%	105%	88%
San Fernando 154/69 kV 2	35%	39%	42%	45%	51%	53%	54%
San Fernando 154/69/13,2 kV 3	51%	47%	50%	53%	51%	54%	55%
Teno 154/66/13,2kV_25 MVA_1	47%	80%	50%	52%	55%	58%	59%
Teno 154/66/13,2kV_25 MVA_2	35%	49%	41%	43%	45%	47%	47%
Tinguiririca 300 MVA 220/154/66 kV		93%	99%	105%	109%	112%	86%
TR1 Dichato 220/66/13,8 kV							27%
TR1 Hualqui 220/66/13,8 kV						38%	33%
TR1 Mataquito 220/66/13,8 kV						39%	37%
TR1 Nueva Cauquenes 220/66/13,8 kV							40%
TR1 Nueva Nirivilo 220/66/13,8 kV							36%

Tabla 6.4.39. Cargabilidad de transformadores AT/AT en escenario Verano Noche, Zona Alto Jahuel - Charrúa.

Transformador	2019	2020	2021	2022	2023	2024	2025
Alto Jahuel 220/154 kV-300 MVA	57%	57%	70%	76%	79%	55%	55%
Charrua 220/154 kV-390 MVA	54%	53%	52%	53%	54%	54%	54%
Chillan 154/66 kV_75 MVA_3	55%	64%	66%	68%	72%	78%	78%
Fátima 154/69/14.8 1	86%	90%	118%	128%	131%	59%	59%
Fátima 154/69/14.8 2	0%	0%	0%	0%	0%	57%	57%
Itahue 154/66 kV TR5N 100 MVA	42%	42%	46%	48%	47%	51%	51%
Itahue 154/66 kV-56 MVA T2	72%	39%	48%	46%	39%	41%	41%
Itahue 154/66 kV-56 MVA T5	68%	60%	57%	69%	53%	56%	56%
Itahue 154/66 kV-75 MVA T1	52%	46%	45%	53%	48%	52%	52%
Itahue 300 MVA 220/154/66 kV	48%	52%	61%	80%	63%	60%	60%
Las Arañas T1 110/66 kV-50 MVA	55%	54%	59%	63%	63%	68%	68%
Las Arañas T2 110/66 kV-50 MVA	55%	54%	58%	64%	64%	72%	72%
Linares 154/69 kV_75 MVA_1	42%	44%	49%	55%	30%	21%	21%
Malloa 154/69 kV 1	61%	62%	63%	65%	72%	57%	57%
Malloa 154/69 kV 2	59%	61%	62%	65%	71%	56%	56%
Maule 154/66 kV-25 MVA 2	67%	62%	70%	72%	80%	81%	81%
Maule 154/66 kV-60 MVA 1	68%	63%	71%	73%	82%	83%	83%
Maule 220/154 kV-300 MVA 1	42%	40%	43%	46%	53%	47%	47%
Monterrico 154/66 kV - 60/75 MVA (T1)	83%	85%	76%	42%	81%	57%	57%
Nuevo TR Monterrico 154/66 kV				42%	19%	54%	54%
Paine 154/66 kV 1	33%	34%	40%	46%	43%	0%	0%
Paine 154/66 kV 2	83%	87%	65%	68%	72%	47%	47%

Transformador	2019	2020	2021	2022	2023	2024	2025
Parral 154/66 kV-15 MVA	0%	0%	0%	0%	0%	0%	0%
Parral 154/66 kV-56 MVA	58%	60%	66%	65%	66%	42%	42%
PCortes 154/69 kV_56 MVA_1	101%	105%	109%	114%	119%	122%	122%
PCortes 154/69 kV_60 MVA_2	89%	50%	53%	56%	60%	64%	64%
N TR PCortes 154/69 kV 75 MVA_3		33%	35%	37%	40%	42%	42%
Portezuelo T1 110/66 kV-50 MVA	60%	63%	67%	73%	73%	88%	88%
Portezuelo T2 110/66 kV-18 MVA	25%	25%	27%	28%	0%	0%	0%
Quelentaro 220/110 kV-65 MVA	68%	70%	74%	81%	79%	89%	89%
Rancagua 154/66 kV (fundición talleres)	0%	0%	0%	0%	0%	0%	0%
Rancagua 154/69 kV-45/56 MVA T1	72%	74%	76%	84%	91%	98%	98%
Rancagua 154/69 kV-60/75 MVA T4	66%	66%	70%	65%	91%	68%	68%
San Fernando 154/69 kV 1	94%	95%	113%	118%	128%	108%	108%
San Fernando 154/69 kV 2	40%	45%	44%	49%	49%	54%	54%
San Fernando 154/69/13,2 kV 3	59%	47%	57%	55%	64%	70%	70%
Teno 154/66/13,2kV_25 MVA_1	83%	94%	76%	87%	112%	116%	116%
Teno 154/66/13,2kV_25 MVA_2	60%	67%	63%	71%	83%	91%	91%
Tinguiririca 300 MVA 220/154/66 kV	95%	104%	99%	104%	115%	92%	92%
TR1 Dichato 220/66/13,8 kV						26%	26%
TR1 Hualqui 220/66/13,8 kV					37%	31%	31%
TR1 Mataquito 220/66/13,8 kV					35%	38%	38%
TR1 Nueva Cauquenes 220/66/13,8 kV						42%	42%
TR1 Nueva Nirivilo 220/66/13,8 kV						26%	26%

Tabla 6.4.40. Cargabilidad de transformadores AT/AT en escenario Invierno Día, Zona Alto Jahuel - Charrúa.

Transformador	2019	2020	2021	2022	2023	2024	2025
Alto Jahuel 220/154 kV-300 MVA	51%	59%	67%	73%	75%	54%	57%
Charrua 220/154 kV-390 MVA	52%	53%	52%	52%	53%	53%	53%
Chillan 154/66 kV_75 MVA_3	54%	57%	60%	64%	66%	69%	73%
Fátima 154/69/14.8 1	99%	119%	126%	140%	76%	77%	80%
Fátima 154/69/14.8 2						80%	80%
Itahue 154/66 kV TR5N 100 MVA	40%	44%	46%	49%	47%	46%	50%
Itahue 154/66 kV-56 MVA T2	39%	43%	43%	46%	45%	44%	48%
Itahue 154/66 kV-56 MVA T5	62%	66%	64%	67%	67%	67%	72%
Itahue 154/66 kV-75 MVA T1	47%	50%	49%	52%	51%	51%	55%
Itahue 300 MVA 220/154/66 kV	48%	54%	54%	59%	57%	56%	61%
Las Arañas T1 110/66 kV-50 MVA	38%	41%	43%	46%	47%	47%	50%
Las Arañas T2 110/66 kV-50 MVA	45%	43%	44%	47%	48%	48%	50%
Linares 154/69 kV_75 MVA_1	29%	29%	36%	39%	23%	15%	15%
Malloa 154/69 kV 1	52%	56%	60%	63%	58%	54%	57%
Malloa 154/69 kV 2	51%	56%	60%	63%	58%	54%	57%
Maule 154/66 kV-25 MVA 2	59%	70%	74%	92%	93%	87%	95%
Maule 154/66 kV-60 MVA 1	59%	67%	71%	78%	76%	72%	78%
Maule 220/154 kV-300 MVA 1	33%	37%	39%	44%	47%	41%	44%
Monterrico 154/66 kV - 60/75 MVA (T1)	57%	64%	66%	39%	41%	48%	50%
Nuevo TR Monterrico 154/66 kV				29%	31%	36%	38%
Paine 154/66 kV 1	23%	28%	29%	33%	78%		
Paine 154/66 kV 2	83%	64%	67%	72%	42%	44%	46%

Transformador	2019	2020	2021	2022	2023	2024	2025
Parral 154/66 kV-15 MVA	0%	0%	0%	0%	0%	0%	0%
Parral 154/66 kV-56 MVA	50%	57%	57%	62%	65%	28%	29%
PCortes 154/69 kV_56 MVA_1	92%	98%	102%	107%	109%	109%	114%
PCortes 154/69 kV_60 MVA_2	57%	62%	66%	68%	72%	73%	77%
N TR PCortes 154/69 kV 75 MVA_3	38%	41%	44%	51%	53%	54%	58%
Portezuelo T1 110/66 kV-50 MVA	39%	44%	48%	52%	50%	50%	54%
Portezuelo T2 110/66 kV-18 MVA	24%	26%	27%	28%	94%	81%	87%
Quelentaro 220/110 kV-65 MVA	44%	49%	52%	56%	64%	47%	49%
Rancagua 154/66 kV (fundición talleres)	0%	0%	0%	0%	0%	0%	0%
Rancagua 154/69 kV-45/56 MVA T1	82%	88%	94%	99%	103%	105%	111%
Rancagua 154/69 kV-60/75 MVA T4	43%	52%	53%	58%	73%	74%	43%
San Fernando 154/69 kV 1	77%	79%	80%	85%	80%	70%	73%
San Fernando 154/69 kV 2	37%	40%	42%	45%	47%	49%	52%
San Fernando 154/69/13,2 kV 3	53%	57%	59%	62%	56%	58%	62%
Teno 154/66/13,2kV_25 MVA_1	61%	64%	104%	104%	106%	108%	108%
Teno 154/66/13,2kV_25 MVA_2	51%	55%	61%	64%	67%	68%	73%
Tinguiririca 300 MVA 220/154/66 kV	91%	99%	103%	109%	110%	91%	94%
TR1 Dichato 220/66/13,8 kV						28%	27%
TR1 Hualqui 220/66/13,8 kV					38%	32%	32%
TR1 Mataquito 220/66/13,8 kV					30%	30%	33%
TR1 Nueva Cauquenes 220/66/13,8 kV						38%	41%
TR1 Nueva Nirivilo 220/66/13,8 kV						25%	27%

Tabla 6.4.41. Cargabilidad de transformadores AT/AT en escenario Invierno Noche, Zona Alto Jahuel - Charrúa.

Transformador	2019	2020	2021	2022	2023	2024	2025
Alto Jahuel 220/154 kV-300 MVA	32%	36%	41%	46%	41%	37%	37%
Charrua 220/154 kV-390 MVA	21%	23%	26%	19%	15%	16%	16%
Chillan 154/66 kV_75 MVA_3	55%	59%	60%	62%	65%	72%	72%
Fátima 154/69/14.8 1	77%	106%	107%	115%	49%	55%	55%
Fátima 154/69/14.8 2						51%	51%
Itahue 154/66 kV TR5N 100 MVA	32%	35%	36%	39%	34%	42%	42%
Itahue 154/66 kV-56 MVA T2	32%	34%	35%	38%	35%	45%	45%
Itahue 154/66 kV-56 MVA T5	55%	56%	58%	61%	61%	50%	50%
Itahue 154/66 kV-75 MVA T1	39%	41%	43%	46%	44%	55%	55%
Itahue 300 MVA 220/154/66 kV	33%	36%	37%	42%	67%	45%	45%
Las Arañas T1 110/66 kV-50 MVA	34%	37%	38%	40%	41%	46%	46%
Las Arañas T2 110/66 kV-50 MVA	46%	45%	45%	44%	45%	47%	47%
Linares 154/69 kV_75 MVA_1	24%	20%	20%	21%	23%	8%	8%
Malloa 154/69 kV 1	45%	47%	55%	56%	50%	48%	48%
Malloa 154/69 kV 2	25%	26%	28%	29%	28%	33%	33%
Maule 154/66 kV-25 MVA 2	55%	60%	65%	72%	63%	71%	71%
Maule 154/66 kV-60 MVA 1	59%	61%	67%	74%	64%	73%	73%
Maule 220/154 kV-300 MVA 1	28%	31%	33%	37%	37%	38%	38%
Monterrico 154/66 kV - 60/75 MVA (T1)	61%	62%	63%	52%	55%	56%	56%
Nuevo TR Monterrico 154/66 kV				11%	13%	16%	16%
Paine 154/66 kV 1	14%	15%	28%	28%	48%		
Paine 154/66 kV 2	83%	58%	62%	65%	39%	46%	46%

Transformador	2019	2020	2021	2022	2023	2024	2025
Parral 154/66 kV-15 MVA	0%	0%	0%	0%	0%	0%	0%
Parral 154/66 kV-56 MVA	45%	45%	54%	58%	50%	42%	42%
PCortes 154/69 kV_56 MVA_1	66%	68%	71%	74%	71%	79%	79%
PCortes 154/69 kV_60 MVA_2	59%	63%	66%	70%	68%	79%	79%
N TR PCortes 154/69 kV 75 MVA_3	39%	42%	44%	47%	45%	52%	52%
Portezuelo T1 110/66 kV-50 MVA	36%	37%	38%	40%	42%	41%	41%
Portezuelo T2 110/66 kV-18 MVA	32%	32%	33%	35%	33%	0%	0%
Quelentaro 220/110 kV-65 MVA	42%	45%	47%	49%	50%	35%	35%
Rancagua 154/66 kV (fundición talleres)	0%	0%	0%	0%	0%	0%	0%
Rancagua 154/69 kV-45/56MVA T1	89%	96%	98%	105%	106%	127%	127%
Rancagua 154/69 kV-60/75 MVA T4	32%	34%	47%	48%	48%	27%	27%
San Fernando 154/69 kV 1	59%	62%	64%	68%	70%	66%	66%
San Fernando 154/69 kV 2	30%	32%	34%	36%	35%	41%	41%
San Fernando 154/69/13,2 kV 3	43%	46%	47%	50%	50%	55%	55%
Teno 154/66/13,2kV_25 MVA_1	64%	44%	42%	44%	44%	51%	51%
Teno 154/66/13,2kV_25 MVA_2	45%	39%	34%	36%	36%	40%	40%
Tinguiririca 300 MVA 220/154/66 kV	69%	74%	78%	83%	75%	70%	70%
TR1 Dichato 220/66/13,8 kV						25%	25%
TR1 Hualqui 220/66/13,8 kV					35%	29%	29%
TR1 Mataquito 220/66/13,8 kV					23%	25%	25%
TR1 Nueva Cauquenes 220/66/13,8 kV						23%	23%
TR1 Nueva Nirivilo 220/66/13,8 kV						27%	27%

6.4.5.3 Líneas de Transmisión

Tabla 6.4.42. Cargabilidad de líneas de transmisión en escenario Verano Día, Zona Alto Jahuel - Charrúa.

Línea	2019	2020	2021	2022	2023	2024	2025
2x220 kV Dichato - Nueva Cauquenes C1						8%	10%
2x220 kV Dichato - Nueva Cauquenes C2						8%	10%
2x220 kV Hualqui - Dichato C1						9%	10%
2x220 kV Hualqui - Dichato C2						10%	10%
2x220 kV Nueva Nirivilo - Mataquito C1						8%	8%
2x220 kV Nueva Nirivilo - Mataquito C2						8%	8%
1x220 kV Candelaria - Tuniche						13%	7%
1x220 kV Candelaria - Tuniche						13%	7%
1x220 kV Charrúa - Hualqui					19%	31%	32%
1x220 kV Hualqui - Lagunillas					9%	5%	3%
1x220 kV Itahue - Mataquito C1					4%	9%	9%
1x220 kV Itahue - Mataquito C2					4%	9%	9%
1x220 kV Nueva Cauquenes - Nueva Nirivilo						7%	8%
1x220 kV Nueva Cauquenes - Nueva Nirivilo						7%	8%
1x220 kV Santa Isabel - Maule	48%	54%	59%	63%	68%	57%	61%
1x220 kV Tuniche - Punta de Cortés C1						13%	16%
1x220 kV Tuniche - Punta de Cortés C2						13%	15%
2x154 kV Villaseca - Tap Fátima C1	58%	65%	74%	82%	86%	51%	55%
2x154 kV Villaseca - Tap Fátima C2	58%	65%	73%	81%	86%	51%	55%
1x154 kV Alto Jahuel - Villaseca C1	58%	65%	73%	81%	86%	51%	54%
1x154 kV Alto Jahuel - Villaseca C2	58%	65%	73%	81%	86%	51%	55%
1x154 kV Charrúa - Chillán	43%	45%	47%	49%	51%	53%	54%
1x154 kV Charrúa - Pueblo Seco			48%	53%	56%	47%	54%
1x154 kV Estructura N8 - San Fernando 1	58%	60%	57%	60%	61%	51%	54%
1x154 kV Estructura N8 - San Fernando 2	43%	46%	48%	51%	54%	55%	59%

Línea	2019	2020	2021	2022	2023	2024	2025
1x154 kV Itahue - Maule	15%	8%	10%	10%	9%	2%	3%
1x154 kV Itahue - Tap Teno C1	40%	41%	38%	38%	39%	34%	34%
1x154 kV Itahue - Tap Teno C2	67%	69%	67%	68%	70%	65%	66%
1x154 kV Linares - Maule kV	58%	60%	70%	75%	90%	75%	78%
1x154 kV Linares - Tap Yerbas Buenas	43%	44%	53%	57%	71%	57%	58%
1x154 kV Parral - Linares	0%	0%	0%	0%	0%	0%	0%
1x154 kV Parral - Tap Chillán	65%	73%	74%	80%	76%	40%	43%
1x154 kV Pueblo Seco - Monterrico			48%	53%	56%	47%	54%
1x154 kV Tap Fátima - Fátima C1	9%	10%	15%	16%	23%	14%	14%
1x154 kV Tap Fátima - Fátima C2	41%	45%	52%	55%	58%	52%	55%
1x154 kV Tap Fátima - Tap Paine	49%	55%	60%	67%	67%	16%	15%
1x154 kV Tap Fátima - Tap Tuniche	9%	10%	15%	16%	23%	14%	14%
1x154 kV Tap Fátima - Tap Tuniche	22%	25%	26%	32%	33%	15%	14%
1x154 kV Tap Malloa - Tap Tilcoco C1	35%	36%	44%	45%	47%	32%	30%
1x154 kV Tap Malloa - Tap Tilcoco C2	57%	59%	44%	45%	47%	32%	30%
1x154 kV Tap Monterrico - Tap Chillán	40%	45%	49%	54%	57%	47%	54%
1x154 kV Tap Paine - Paine	41%	44%	39%	41%	43%	14%	14%
1x154 kV Tap Paine-Tuniche C1	18%	20%	25%	30%	32%	15%	15%
1x154 kV Tap Paine-Tuniche C2	22%	25%	27%	32%	33%	15%	14%
1x154 kV Tap Tilcoco - Tap P.Cortes C1	34%	35%	44%	45%	47%	32%	30%
1x154 kV Tap Tilcoco - Tap P.Cortes C2	57%	59%	44%	45%	47%	32%	30%
1x154 kV Teno Empalme - Teno	47%	49%	51%	53%	55%	55%	57%
1x154 kV Tinguiririca - Estructura N8 C1	64%	68%	67%	35%	36%	34%	36%
1x154 kV Tinguiririca - Estructura N8 C2				35%	36%	34%	36%
1x154 kV Tinguiririca - Tap Malloa C1	69%	72%	72%	73%	75%	55%	54%
1x154 kV Tinguiririca - Tap Malloa C2	69%	72%	72%	73%	76%	55%	54%
1x154 kV Tuniche - Punta de Cortes C1	73%	75%	29%	32%	32%	47%	50%

Línea	2019	2020	2021	2022	2023	2024	2025
1x154 kV Tuniche - Punta de Cortes C2	25%	29%	26%	30%	29%	46%	48%
1x154 kV Tuniche - Rancagua C1	9%	10%	28%	30%	32%	27%	29%
1x154 kV Tuniche - Rancagua C2	39%	42%	27%	28%	30%	27%	28%
1x110 kV Quelentaro - Las Arañas	42%	42%	45%	48%	49%	47%	50%
1x110 kV Quelentaro - Portezuelo	38%	39%	44%	48%	62%	26%	26%
2x66 kV Dichato - Tome C1						14%	13%
2x66 kV Dichato - Tome C2						14%	13%
2x66 kV Hualqui - Chiguayante C1					19%	17%	17%
2x66 kV Hualqui - Chiguayante C2					19%	17%	17%
2x66 kV Nirivilo - Nueva Nirivilo C1						40%	44%
2x66 kV Nirivilo - Nueva Nirivilo C2						13%	15%
2x66 kV Nueva Nirivilo - Constitución C1						13%	12%
2x66 kV Nueva Nirivilo - Constitución C2						8%	7%
1x66 kV Alameda - Cachapoal	0%	0%	0%	0%	0%	0%	0%
1x66 kV Alto Jahuel - Buin	92%	96%	102%	107%	112%	117%	123%
1x66 kV Bajo Melipilla - Chocalán	36%	36%	41%	42%	43%	45%	48%
1x66 kV Bajo Melipilla - El Maitén	46%	49%	53%	55%	58%	62%	66%
1x66 kV Buin (CGE) - Estructura 101	24%	26%	28%	29%	29%	28%	32%
1x66 kV Cachapoal-Machalí	15%	16%	17%	18%	19%	19%	20%
1x66 kV Cauquenes - La Vega	11%	11%	12%	13%	14%	12%	13%
1x66 kV Cauquenes - Tap Paso Hondo	72%	74%	81%	86%	92%	20%	21%
1x66 kV Charrúa - Santa Clara	37%	48%	56%	15%	72%	18%	20%
1x66 kV Chillán - Tap El Nevado	0%	0%	0%	0%	0%	0%	0%
1x66 kV Chimbarongo - Quinta	13%	14%	15%	16%	16%	17%	18%
1x66 kV Chocalán - Mandinga	0%	0%	0%	0%	0%	0%	0%
1x66 kV Chumaquito - Rosario	66%	69%	69%	71%	73%	70%	72%
1x66 kV Cocharcas - Hualte	19%	21%	24%	25%	23%	24%	26%

Línea	2019	2020	2021	2022	2023	2024	2025
1x66 kV Cocharcas - Tap San Carlos	63%	69%	76%	79%	74%	76%	82%
1x66 kV Codegua - Tap Graneros	53%	56%	57%	61%	64%	9%	10%
1x66 kV Constitución - Celco	23%	21%	23%	24%	24%	19%	18%
1x66 kV Constitución - Viñales	19%	19%	20%	20%	20%	18%	18%
1x66 kV Dole - Rancagua	8%	8%	15%	15%	15%	19%	18%
1x66 kV El Maitén - El Paico	25%	27%	29%	30%	32%	34%	36%
1x66 kV El Manzano - Esperanza					9%	43%	46%
1x66 kV El Paico - El Monte	19%	20%	22%	22%	23%	24%	26%
1x66 kV El Peumo - Santa Rosa	43%	44%	46%	48%	49%	46%	52%
1x66 kV Est. 36 A - Hospital	30%	33%	36%	37%	37%	37%	42%
1x66 kV Estructura101 - Paine	0%	0%	0%	0%	0%	0%	0%
1x66 kV Fátima - Est. 36A	45%	48%	52%	55%	55%	54%	62%
1x66 kV Fátima - Isla de Maipo			13%	13%	22%	35%	43%
1x66 kV Graneros - Indura	11%	12%	22%	21%	22%	28%	27%
1x66 kV Hospital - S. Francisco de Mostazal	52%	56%	58%	62%	66%	0%	0%
1x66 kV Hualañe - Lincantén	6%	6%	6%	6%	6%	7%	7%
1x66 kV Hualañe - Rangulí	14%	15%	16%	17%	16%	16%	17%
1x66 kV I.Maipo - P.Talagante	31%	32%	31%	31%	29%	28%	30%
1x66 kV Indura - Dole	8%	8%	15%	15%	15%	19%	18%
1x66 kV Isla de Maipo - El Monte	0%	0%	0%	0%	0%	0%	0%
1x66 kV Itahue - Molina C1	62%	64%	72%	77%	90%	91%	96%
1x66 kV Itahue - Molina C2	69%	71%	80%	85%	82%	83%	87%
1x66 kV La Ronda - San Vicente	130%	137%	96%	98%	92%	43%	43%
1x66 kV Las Arañas - El Peumo	69%	70%	74%	79%	79%	76%	86%
1x66 kV Las Cabras - El Manzano	35%	38%	38%	35%	35%	90%	96%
1x66 kV Lihueimo - Marchigüe	80%	80%	89%	96%	113%	99%	106%
1x66 kV Linares - Chacahuin	42%	39%	13%	10%	9%	14%	10%

Línea	2019	2020	2021	2022	2023	2024	2025
1x66 kV Linares - Tap Longaví	43%	42%	55%	52%	74%	26%	28%
1x66 kV Lircay - Mariposas	19%	18%	19%	19%	19%	18%	18%
1x66 kV Lircay - Providencia	76%	73%	75%	74%	74%	72%	73%
1x66 kV Lirios - Chumaquito	122%	126%	131%	136%	142%	139%	145%
1x66 kV Lo Miranda - Loreto	27%	30%	32%	33%	35%	35%	37%
1x66 kV Los Tilos - Tap Tres Esquinas	27%	31%	33%	34%	36%	37%	38%
1x66 kV Malloa - Pelequén	67%	71%	71%	37%	38%	39%	41%
1x66 kV Malloa - Quinta Tilcoco	26%	28%	28%	29%	31%	31%	33%
1x66 kV Malloa - San Vicente de Tagua Tagua	97%	103%	110%	114%	111%	76%	81%
1x66 kV Malloa Nueva - Malloa	6%	7%	7%	7%	8%	8%	8%
1x66 kV Mandinga - Las Arañas	20%	20%	22%	23%	23%	22%	25%
1x66 kV Marchigue - Alcones	21%	21%	23%	24%	28%	25%	27%
1x66 kV Mataquito - Hualañe					10%	10%	11%
1x66 kV Mataquito - Tap Parronal					30%	27%	29%
1x66 kV Maule - Lircay	89%	86%	88%	88%	88%	85%	86%
1x66 kV Maule - San Miguel	109%	65%	75%	80%	78%	71%	75%
1x66 kV Maule - Talca	118%	71%	72%	78%	76%	68%	72%
1x66 kV Molina - Curico L1	73%	74%	86%	93%	94%	95%	99%
1x66 kV Molina - Curico L2	69%	70%	81%	87%	99%	100%	104%
1x66 kV Monterrico - Chillán	0%	0%	0%	0%	0%	0%	0%
1x66 kV Monterrico - Cocharcas	127%	136%	154%	63%	59%	61%	66%
1x66 kV Monterrico - Tap El Nevado	52%	44%	42%	44%	51%	55%	61%
1x66 kV Nancagua - Paniahue	1%	1%	1%	1%	1%	1%	1%
1x66 kV Nueva Aldea - Santa Elvira	144%	144%	145%	144%	144%	144%	144%
1x66 kV Nueva Cauquenes - Cauquenes						13%	14%
1x66 kV Nueva Cauquenes - Parral						8%	8%
1x66 kV Paine - I. Maipo	110%	118%	96%	100%	100%	57%	63%

Línea	2019	2020	2021	2022	2023	2024	2025
1x66 kV Paine - Tap Hospital	52%	56%	58%	62%	66%	0%	0%
1x66 kV Panguilemo - San Rafael	47%	46%	50%	54%	38%	23%	23%
1x66 kV Paniahue - Lihueimo	81%	81%	90%	49%	59%	51%	55%
1x66 kV Panimavida - Ancoa	1%	0%	0%	0%	0%	0%	0%
1x66 kV Parral - San Gregorio	24%	24%	27%	28%	30%	30%	32%
1x66 kV Parral - Tap Paso Hondo	52%	54%	59%	62%	67%	9%	10%
1x66 kV Parronales - Hualañe	31%	34%	38%	42%	39%	40%	44%
1x66 kV Parronales - Mataquito					115%	103%	112%
1x66 kV Pelequén - Tap Paloma	0%	0%	0%	0%	0%	0%	0%
1x66 kV Placilla - Nanchua	12%	13%	13%	14%	14%	15%	16%
1x66 kV Portezuelo - Marchigue	62%	62%	69%	74%	87%	76%	82%
1x66 kV Portzuelo - Tap Los Maitenes	4%	4%	5%	5%	21%	72%	76%
1x66 kV Punta de Cortés - Cachapoal C1	57%	61%	65%	68%	72%	72%	77%
1x66 kV Punta de Cortés - Cachapoal C2	57%	61%	65%	68%	72%	72%	77%
1x66 kV Punta de Cortés - Lo Miranda C1	57%	60%	62%	64%	66%	64%	67%
1x66 kV Punta de Cortés - Lo Miranda C2	51%	54%	56%	58%	60%	58%	61%
1x66 kV Punta de Cortés - Tuniche	63%	67%	70%	73%	76%	75%	79%
1x66 kV Quilmo - Chillán	0%	0%	0%	0%	0%	0%	0%
1x66 kV R1 - R2	0%	0%	0%	0%	0%	0%	0%
1x66 kV Rancagua - Alameda	58%	55%	56%	59%	63%	63%	66%
1x66 kV Rancagua - Cachapoal 66 kV	24%	33%	33%	35%	38%	38%	40%
1x66 kV Rancagua - R	0%	0%	0%	0%	0%	0%	0%
1x66 kV Rancagua - Tap El Teniente	166%	171%	178%	184%	192%	188%	196%
1x66 kV Rapel - Tap Nihue	0%	0%	0%	0%	0%	0%	0%
1x66 kV Rauquén - Curicó	0%	0%	0%	0%	0%	0%	0%
1x66 kV Rengo - Pelequén	56%	60%	59%	33%	35%	35%	37%
1x66 kV Retiro - Parral	13%	21%	28%	21%	39%	16%	19%

Línea	2019	2020	2021	2022	2023	2024	2025
1x66 kV Rosario - Rengo	0%	0%	0%	0%	0%	0%	0%
1x66 kV San Fernando - Chimbarongo	42%	45%	48%	49%	52%	53%	57%
1x66 kV San Fernando - Colchagua	61%	62%	67%	70%	73%	75%	79%
1x66 kV San Fernando - La Ronda	90%	95%	78%	80%	78%	56%	57%
1x66 kV San Fernando - Placilla	57%	21%	22%	23%	25%	25%	27%
1x66 kV San Francisco - Codegua	53%	56%	57%	61%	64%	9%	10%
1x66 kV San Ignacio - San Clemente	32%	33%	36%	38%	39%	40%	43%
1x66 kV San Javier - Constitución	18%	7%	19%	5%	5%	32%	35%
1x66 kV San Miguel - Talca	40%	48%	57%	61%	59%	52%	54%
1x66 kV San Rafael - Itahue	91%	88%	96%	101%	88%	73%	80%
1x66 kV San Vicente Tagua Tagua - Las Cabras	70%	76%	76%	77%	70%	26%	27%
1x66 kV Santa Clara - Los Tilos	111%	125%	133%	140%	148%	150%	156%
1x66 kV Santa Elvira - Tap El Nevado	88%	76%	71%	75%	88%	94%	104%
1x66 kV Santa Rosa - Alhué	25%	25%	26%	26%	26%	25%	27%
1x66 kV Talca - La Palma	23%	25%	26%	28%	30%	21%	21%
1x66 kV Talca - Panguilemo	42%	42%	46%	50%	67%	48%	51%
1x66 kV Talca - Piduco	83%	85%	93%	98%	103%	103%	112%
1x66 kV Talca - San Clemente	0%	0%	0%	0%	0%	0%	0%
1x66 kV Talca - Tap Panguilemo	42%	42%	46%	50%	67%	48%	51%
1x66 kV Talca - Tap San Javier	5%	4%	6%	7%	8%	37%	40%
1x66 kV Tap Chacahuin - Embalse Ancoa	42%	39%	46%	36%	32%	47%	34%
1x66 kV Tap El Teniente - Tap Lirios	85%	87%	91%	94%	99%	96%	101%
1x66 kV Tap Graneros - Graneros	46%	50%	52%	54%	58%	58%	61%
1x66 kV Tap Hospital - Hospital	0%	0%	0%	0%	0%	0%	0%
1x66 kV Tap La Paloma - La Ronda	0%	0%	0%	0%	0%	0%	0%
1x66 kV Tap Linares Norte - Linares	110%	112%	122%	45%	46%	48%	50%
1x66 kV Tap Longaví - Retiro	11%	23%	27%	20%	37%	19%	22%

Línea	2019	2020	2021	2022	2023	2024	2025
1x66 kV Tap Maestranza - R2	0%	0%	0%	0%	0%	0%	0%
1x66 kV Tap Nihue - La Manga	26%	26%	28%	29%	30%	29%	33%
1x66 kV Tap Nihue - Las Arañas	33%	33%	35%	37%	38%	37%	42%
1x66 kV Tap Ñiquen - Parral	1%	1%	1%	1%	1%	1%	1%
1x66 kV Tap Paloma - San Fernando	0%	0%	0%	0%	0%	0%	0%
1x66 kV Tap Panguilemo - Tap Los Maquis	51%	49%	53%	56%	109%	88%	96%
1x66 kV Tap Paso Hondo - Paso Hondo	10%	10%	11%	12%	13%	12%	13%
1x66 kV Tap Putagan - Panimavida	44%	46%	49%	51%	54%	55%	59%
1x66 kV Tap Quinta - Teno	0%	0%	0%	0%	0%	0%	0%
1x66 kV Tap San Carlos - Tap Ñiquen	1%	1%	1%	1%	1%	1%	1%
1x66 kV Tap San Javier - Villa Alegre 66 kV	1%	1%	1%	1%	1%	1%	1%
1x66 kV Tap Tres Esquinas - Larqui			0%	0%	0%	0%	0%
1x66 kV Tap Tres Esquinas - Quilmo	9%	10%	11%	12%	13%	13%	13%
1x66 kV Tap Tres Esquinas - Tres Esquinas	85%	94%	100%	105%	111%	113%	117%
1x66 kV Tap Villa Prat - Itahue	92%	90%	98%	104%	59%	46%	51%
1x66 kV Tap Villa Prat - Villa Prat	65%	70%	78%	85%	83%	69%	75%
1x66 kV Teno - Rauquén	38%	38%	41%	43%	45%	46%	47%
1x66 kV Villa Alegre - Tap Linares Norte	12%	13%	13%	14%	15%	15%	16%
1x66 kV Villa Prat - Parronales	37%	40%	45%	50%	110%	97%	106%
1x33 kV Hualte - Quirihue	37%	41%	46%	48%	44%	46%	50%
1x33 kV Lajuelas - Recinto	19%	22%	23%	25%	27%	26%	28%
1x33 kV Lajuelas - Santa Elisa	77%	87%	94%	99%	106%	106%	110%
1x33 kV Quilmo - Lajuelas	80%	90%	97%	102%	109%	109%	114%
1x15 kV San Francisco de Mostazal - Pacifico	82%	84%	84%	83%	84%	80%	74%
1x13,2 kV El Paico - Mallarauco	21%	21%	21%	21%	21%	21%	21%

Tabla 6.4.43. Cargabilidad de líneas de transmisión en escenario Verano Noche, Zona Alto Jahuel - Charrúa.

Línea	2019	2020	2021	2022	2023	2024	2025
2x220 kV Dichato - Nueva Cauquenes C1						7%	8%
2x220 kV Dichato - Nueva Cauquenes C2						7%	8%
2x220 kV Hualqui - Dichato C1						7%	8%
2x220 kV Hualqui - Dichato C2						7%	7%
2x220 kV Nueva Nirivilo - Mataquito C1						8%	8%
2x220 kV Nueva Nirivilo - Mataquito C2						8%	8%
1x220 kV Candelaria - Tuniche						10%	11%
1x220 kV Candelaria - Tuniche						10%	11%
1x220 kV Charrúa - Hualqui					19%	27%	30%
1x220 kV Hualqui - Lagunillas					9%	0%	1%
1x220 kV Itahue - Mataquito C1					3%	9%	9%
1x220 kV Itahue - Mataquito C2					3%	9%	9%
1x220 kV Nueva Cauquenes - Nueva Nirivilo						7%	7%
1x220 kV Nueva Cauquenes - Nueva Nirivilo						7%	7%
1x220 kV Santa Isabel - Maule	44%	43%	45%	48%	56%	46%	50%
1x220 kV Tuniche - Punta de Cortés C1						11%	12%
1x220 kV Tuniche - Punta de Cortés C2						10%	11%
2x154 kV Villaseca - Tap Fátima C1	43%	43%	52%	56%	60%	38%	42%
2x154 kV Villaseca - Tap Fátima C2	43%	43%	52%	56%	60%	38%	42%
1x154 kV Alto Jahuel - Villaseca C1	43%	43%	52%	56%	60%	38%	41%
1x154 kV Alto Jahuel - Villaseca C2	43%	43%	52%	56%	60%	38%	42%
1x154 kV Charrúa - Chillán	35%	39%	42%	43%	43%	45%	47%
1x154 kV Charrúa - Pueblo Seco			35%	37%	41%	38%	40%
1x154 kV Estructura N8 - San Fernando 1	48%	48%	58%	60%	65%	53%	55%
1x154 kV Estructura N8 - San Fernando 2	39%	40%	43%	46%	48%	50%	53%

Línea	2019	2020	2021	2022	2023	2024	2025
1x154 kV Itahue - Maule	17%	7%	3%	4%	2%	7%	6%
1x154 kV Itahue - Tap Teno C1	37%	39%	34%	34%	36%	29%	29%
1x154 kV Itahue - Tap Teno C2	68%	70%	68%	70%	73%	66%	67%
1x154 kV Linares - Maule kV	36%	38%	43%	47%	51%	38%	41%
1x154 kV Linares - Tap Yerbas Buenas	27%	28%	32%	36%	39%	26%	27%
1x154 kV Parral - Linares	0%	0%	0%	0%	0%	0%	0%
1x154 kV Parral - Tap Chillán	38%	40%	43%	43%	43%	27%	27%
1x154 kV Pueblo Seco - Monterrico			35%	37%	41%	38%	40%
1x154 kV Tap Fátima - Fátima C1	5%	5%	10%	11%	15%	10%	11%
1x154 kV Tap Fátima - Fátima C2	30%	31%	38%	41%	41%	38%	42%
1x154 kV Tap Fátima - Tap Paine	38%	39%	42%	46%	48%	14%	16%
1x154 kV Tap Fátima - Tap Tuniche	5%	5%	10%	11%	15%	10%	11%
1x154 kV Tap Fátima - Tap Tuniche	17%	14%	18%	17%	23%	10%	11%
1x154 kV Tap Malloa - Tap Tilcoco C1	30%	31%	39%	40%	41%	25%	25%
1x154 kV Tap Malloa - Tap Tilcoco C2	50%	52%	39%	40%	41%	25%	25%
1x154 kV Tap Monterrico - Tap Chillán	32%	32%	36%	38%	42%	39%	41%
1x154 kV Tap Paine - Paine	37%	38%	33%	36%	36%	13%	13%
1x154 kV Tap Paine-Tuniche C1	13%	9%	17%	15%	22%	11%	11%
1x154 kV Tap Paine-Tuniche C2	17%	14%	18%	17%	23%	10%	11%
1x154 kV Tap Tilcoco - Tap P.Cortes C1	30%	31%	39%	40%	41%	25%	24%
1x154 kV Tap Tilcoco - Tap P.Cortes C2	50%	53%	39%	40%	41%	25%	24%
1x154 kV Teno Empalme - Teno	58%	59%	61%	64%	67%	69%	72%
1x154 kV Tinguiririca - Estructura N8 C1	50%	51%	58%	30%	32%	29%	31%
1x154 kV Tinguiririca - Estructura N8 C2				30%	32%	29%	31%
1x154 kV Tinguiririca - Tap Malloa C1	63%	65%	63%	65%	68%	45%	45%

Línea	2019	2020	2021	2022	2023	2024	2025
1x154 kV Tinguiririca - Tap Malloa C2	63%	65%	63%	65%	69%	45%	45%
1x154 kV Tuniche - Punta de Cortes C1	42%	44%	15%	14%	12%	25%	25%
1x154 kV Tuniche - Punta de Cortes C2	13%	10%	13%	12%	10%	25%	24%
1x154 kV Tuniche - Rancagua C1	9%	9%	21%	21%	28%	22%	23%
1x154 kV Tuniche - Rancagua C2	31%	32%	20%	20%	27%	22%	23%
1x110 kV Quelentaro - Las Arañas	48%	47%	52%	55%	55%	58%	61%
1x110 kV Quelentaro - Portezuelo	43%	44%	48%	52%	49%	53%	59%
2x66 kV Dichato - Tome C1						14%	13%
2x66 kV Dichato - Tome C2						14%	13%
2x66 kV Hualqui - Chiguayante C1					19%	16%	16%
2x66 kV Hualqui - Chiguayante C2					19%	16%	16%
2x66 kV Nirivilo - Nueva Nirivilo C1						33%	36%
2x66 kV Nirivilo - Nueva Nirivilo C2						13%	14%
2x66 kV Nueva Nirivilo - Constitución C1						13%	12%
2x66 kV Nueva Nirivilo - Constitución C2						8%	8%
1x66 kV Alameda - Cachapoal	0%	0%	0%	0%	0%	0%	0%
1x66 kV Alto Jahuel - Buin	49%	51%	54%	56%	58%	60%	63%
1x66 kV Bajo Melipilla - Chocalán	20%	22%	23%	24%	25%	26%	28%
1x66 kV Bajo Melipilla - El Maitén	24%	26%	28%	29%	31%	33%	35%
1x66 kV Buin (CGE) - Estructura 101	19%	20%	21%	22%	24%	24%	25%
1x66 kV Cachapoal-Machalí	19%	20%	21%	23%	24%	24%	26%
1x66 kV Cauquenes - La Vega	8%	8%	9%	10%	10%	9%	9%
1x66 kV Cauquenes - Tap Paso Hondo	60%	64%	66%	76%	75%	16%	19%
1x66 kV Charrúa - Santa Clara	33%	41%	50%	55%	17%	18%	20%
1x66 kV Chillán - Tap El Nevado	0%	0%	0%	0%	0%	0%	0%

Línea	2019	2020	2021	2022	2023	2024	2025
1x66 kV Chimbarongo - Quinta	12%	11%	12%	13%	13%	14%	15%
1x66 kV Chocalán - Mandinga	0%	0%	0%	0%	0%	0%	0%
1x66 kV Chumaquito - Rosario	57%	58%	66%	66%	63%	60%	62%
1x66 kV Cocharcas - Hualte	14%	15%	17%	15%	17%	17%	18%
1x66 kV Cocharcas - Tap San Carlos	54%	58%	64%	62%	67%	66%	72%
1x66 kV Codegua - Tap Graneros	47%	49%	58%	68%	59%	9%	8%
1x66 kV Constitución - Celco	18%	18%	18%	18%	18%	20%	18%
1x66 kV Constitución - Viñales	18%	18%	18%	18%	18%	18%	18%
1x66 kV Dole - Rancagua	12%	11%	9%	4%	30%	22%	22%
1x66 kV El Maitén - El Paico	19%	21%	22%	23%	25%	26%	28%
1x66 kV El Manzano - Esperanza					7%	52%	55%
1x66 kV El Paico - El Monte	17%	18%	19%	20%	21%	22%	23%
1x66 kV El Peumo - Santa Rosa	31%	30%	32%	35%	35%	35%	37%
1x66 kV Est. 36 A - Hospital	23%	25%	26%	28%	30%	30%	32%
1x66 kV Estructura101 - Paine	0%	0%	0%	0%	0%	0%	0%
1x66 kV Fátima - Est. 36A	32%	34%	37%	38%	41%	42%	44%
1x66 kV Fátima - Isla de Maipo			18%	22%	20%	34%	35%
1x66 kV Graneros - Indura	17%	15%	12%	6%	41%	31%	30%
1x66 kV Hospital - S. Francisco de Mostazal	48%	50%	59%	67%	62%	0%	0%
1x66 kV Hualañe - Lincantén	5%	7%	7%	8%	9%	11%	11%
1x66 kV Hualañe - Ranguli	9%	9%	10%	10%	10%	10%	11%
1x66 kV I.Maipo - P.Talagante	29%	29%	28%	28%	29%	28%	28%
1x66 kV Indura - Dole	13%	11%	9%	4%	30%	22%	22%
1x66 kV Isla de Maipo - El Monte	0%	0%	0%	0%	0%	0%	0%
1x66 kV Itahue - Molina C1	70%	69%	73%	80%	78%	80%	86%

Línea	2019	2020	2021	2022	2023	2024	2025
1x66 kV Itahue - Molina C2	64%	63%	68%	73%	85%	87%	94%
1x66 kV La Ronda - San Vicente	84%	88%	130%	124%	138%	93%	93%
1x66 kV Las Arañas - El Peumo	51%	50%	52%	59%	59%	59%	62%
1x66 kV Las Cabras - El Manzano	31%	32%	34%	31%	50%	102%	109%
1x66 kV Lihueimo - Marchigue	47%	50%	50%	55%	53%	58%	65%
1x66 kV Linares - Chacahuin	36%	34%	14%	16%	13%	12%	14%
1x66 kV Linares - Tap Longaví	50%	48%	55%	65%	68%	23%	26%
1x66 kV Lircay - Mariposas	11%	11%	11%	11%	11%	11%	11%
1x66 kV Lircay - Providencia	45%	44%	45%	45%	44%	44%	45%
1x66 kV Lirios - Chumaquito	97%	99%	114%	116%	112%	108%	113%
1x66 kV Lo Miranda - Loreto	26%	29%	30%	32%	34%	34%	36%
1x66 kV Los Tilos - Tap Tres Esquinas	28%	30%	34%	35%	36%	36%	39%
1x66 kV Malloa - Pelequén	67%	69%	73%	38%	40%	40%	43%
1x66 kV Malloa - Quinta Tilcoco	26%	27%	28%	30%	32%	33%	35%
1x66 kV Malloa - San Vicente de Tagua Tagua	93%	95%	95%	100%	111%	58%	60%
1x66 kV Malloa Nueva - Malloa	7%	7%	8%	8%	9%	9%	9%
1x66 kV Mandinga - Las Arañas	22%	22%	23%	26%	26%	26%	27%
1x66 kV Marchigue - Alcones	13%	14%	14%	15%	15%	16%	18%
1x66 kV Mataquito - Hualañe					13%	14%	15%
1x66 kV Mataquito - Tap Parronal					25%	22%	25%
1x66 kV Maule - Lircay	28%	45%	46%	45%	44%	44%	45%
1x66 kV Maule - San Miguel	89%	55%	65%	66%	72%	69%	73%
1x66 kV Maule - Talca	96%	60%	62%	63%	70%	66%	70%
1x66 kV Molina - Curico L1	60%	58%	61%	70%	78%	78%	85%
1x66 kV Molina - Curico L2	65%	62%	65%	75%	72%	73%	79%

Línea	2019	2020	2021	2022	2023	2024	2025
1x66 kV Monterrico - Chillán	0%	0%	0%	0%	0%	0%	0%
1x66 kV Monterrico - Cocharcas	88%	95%	106%	43%	46%	46%	49%
1x66 kV Monterrico - Tap El Nevado	50%	48%	37%	47%	49%	56%	55%
1x66 kV Nanchagua - Paniahue	1%	1%	1%	1%	1%	1%	1%
1x66 kV Nueva Aldea - Santa Elvira	134%	134%	135%	134%	134%	134%	134%
1x66 kV Nueva Cauquenes - Cauquenes						12%	13%
1x66 kV Nueva Cauquenes - Parral						7%	8%
1x66 kV Paine - I. Maipo	72%	76%	57%	60%	63%	39%	41%
1x66 kV Paine - Tap Hospital	48%	50%	58%	67%	62%	0%	0%
1x66 kV Panguilemo - San Rafael	33%	32%	35%	39%	27%	20%	21%
1x66 kV Paniahue - Lihueimo	64%	69%	69%	41%	39%	43%	48%
1x66 kV Panimavida - Ancoa	0%	0%	0%	0%	0%	0%	0%
1x66 kV Parral - San Gregorio	21%	22%	23%	25%	27%	27%	29%
1x66 kV Parral - Tap Paso Hondo	33%	35%	36%	41%	41%	5%	5%
1x66 kV Parronales - Hualañe	32%	34%	38%	41%	45%	49%	52%
1x66 kV Parronales - Mataquito					85%	75%	85%
1x66 kV Pelequén - Tap Paloma	0%	0%	0%	0%	0%	0%	0%
1x66 kV Placilla - Nanchagua	12%	12%	12%	14%	14%	14%	15%
1x66 kV Portezuelo - Marchigue	66%	71%	71%	78%	75%	81%	90%
1x66 kV Portzuelo - Tap Los Maitenes	3%	3%	3%	3%	6%	56%	60%
1x66 kV Punta de Cortés - Cachapoal C1	52%	53%	56%	59%	64%	64%	68%
1x66 kV Punta de Cortés - Cachapoal C2	52%	53%	56%	59%	64%	64%	68%
1x66 kV Punta de Cortés - Lo Miranda C1	51%	56%	58%	60%	62%	61%	63%
1x66 kV Punta de Cortés - Lo Miranda C2	49%	53%	55%	58%	60%	58%	61%
1x66 kV Punta de Cortés - Tuniche	56%	61%	64%	67%	71%	70%	74%

Línea	2019	2020	2021	2022	2023	2024	2025
1x66 kV Quilmo - Chillán	0%	0%	0%	0%	0%	0%	0%
1x66 kV R1 - R2	0%	0%	0%	0%	0%	0%	0%
1x66 kV Rancagua - Alameda	55%	50%	51%	57%	62%	62%	66%
1x66 kV Rancagua - Cachapoal 66 kV	23%	30%	31%	34%	37%	37%	40%
1x66 kV Rancagua - R	0%	0%	0%	0%	0%	0%	0%
1x66 kV Rancagua - Tap El Teniente	130%	133%	153%	156%	151%	145%	151%
1x66 kV Rapel - Tap Nihue	0%	0%	0%	0%	0%	0%	0%
1x66 kV Rauquén - Curicó	54%	54%	57%	58%	65%	66%	72%
1x66 kV Rengo - Pelequén	50%	51%	54%	34%	36%	37%	39%
1x66 kV Retiro - Parral	28%	23%	29%	36%	37%	13%	14%
1x66 kV Rosario - Rengo	0%	0%	0%	0%	0%	0%	0%
1x66 kV San Fernando - Chimbarongo	43%	42%	44%	49%	49%	51%	54%
1x66 kV San Fernando - Colchagua	59%	60%	61%	64%	68%	70%	74%
1x66 kV San Fernando - La Ronda	64%	67%	84%	83%	91%	65%	66%
1x66 kV San Fernando - Placilla	50%	19%	20%	22%	22%	23%	25%
1x66 kV San Francisco - Codegua	47%	49%	58%	68%	59%	9%	8%
1x66 kV San Ignacio - San Clemente	15%	16%	17%	18%	18%	19%	21%
1x66 kV San Javier - Constitución	38%	38%	37%	35%	12%	33%	36%
1x66 kV San Miguel - Talca	38%	38%	46%	47%	54%	50%	52%
1x66 kV San Rafael - Itahue	68%	71%	76%	83%	66%	63%	68%
1x66 kV San Vicente Tagua Tagua - Las Cabras	57%	59%	62%	63%	80%	38%	41%
1x66 kV Santa Clara - Los Tilos	97%	106%	116%	121%	126%	126%	134%
1x66 kV Santa Elvira - Tap El Nevado	85%	82%	64%	80%	84%	96%	94%
1x66 kV Santa Rosa - Alhué	19%	18%	19%	21%	20%	20%	21%
1x66 kV Talca - La Palma	15%	16%	15%	16%	19%	23%	23%

Línea	2019	2020	2021	2022	2023	2024	2025
1x66 kV Talca - Panguilemo	29%	27%	30%	32%	47%	39%	41%
1x66 kV Talca - Piduco	57%	59%	63%	67%	70%	73%	79%
1x66 kV Talca - San Clemente	0%	0%	0%	0%	0%	0%	0%
1x66 kV Talca - Tap Panguilemo	29%	27%	30%	32%	47%	39%	41%
1x66 kV Talca - Tap San Javier	13%	13%	12%	11%	11%	38%	41%
1x66 kV Tap Chacahuin - Embalse Ancoa	36%	34%	32%	37%	30%	29%	32%
1x66 kV Tap El Teniente - Tap Lirios	77%	78%	90%	92%	89%	85%	89%
1x66 kV Tap Graneros - Graneros	43%	45%	51%	53%	55%	53%	56%
1x66 kV Tap Hospital - Hospital	0%	0%	0%	0%	0%	0%	0%
1x66 kV Tap La Paloma - La Ronda	0%	0%	0%	0%	0%	0%	0%
1x66 kV Tap Linares Norte - Linares	86%	89%	93%	40%	41%	43%	46%
1x66 kV Tap Longaví - Retiro	24%	20%	27%	33%	35%	16%	16%
1x66 kV Tap Maestranza - R2	0%	0%	0%	0%	0%	0%	0%
1x66 kV Tap Nihue - La Manga	15%	15%	16%	18%	18%	18%	19%
1x66 kV Tap Nihue - Las Arañas	26%	26%	27%	30%	30%	31%	32%
1x66 kV Tap Ñiquen - Parral	1%	1%	1%	1%	1%	1%	1%
1x66 kV Tap Paloma - San Fernando	0%	0%	0%	0%	0%	0%	0%
1x66 kV Tap Panguilemo - Tap Los Maquis	34%	33%	35%	38%	78%	69%	76%
1x66 kV Tap Paso Hondo - Paso Hondo	7%	7%	7%	8%	8%	8%	9%
1x66 kV Tap Putagan - Panimavida	22%	23%	24%	26%	27%	28%	30%
1x66 kV Tap Quinta - Teno	0%	0%	0%	0%	0%	0%	0%
1x66 kV Tap San Carlos - Tap Ñiquen	1%	1%	1%	1%	1%	1%	1%
1x66 kV Tap San Javier - Villa Alegre 66 kV	1%	1%	1%	1%	1%	1%	1%
1x66 kV Tap Tres Esquinas - Larqui			0%	0%	0%	0%	0%
1x66 kV Tap Tres Esquinas - Quilmo	9%	10%	12%	12%	13%	13%	13%

Línea	2019	2020	2021	2022	2023	2024	2025
1x66 kV Tap Tres Esquinas - Tres Esquinas	86%	94%	103%	107%	111%	112%	119%
1x66 kV Tap Villa Prat - Itahue	71%	74%	79%	86%	45%	45%	46%
1x66 kV Tap Villa Prat - Villa Prat	62%	64%	71%	76%	61%	53%	56%
1x66 kV Teno - Rauquén	70%	70%	74%	75%	83%	86%	93%
1x66 kV Villa Alegre - Tap Linares Norte	10%	11%	11%	12%	13%	13%	14%
1x66 kV Villa Prat - Parronales	37%	39%	43%	47%	80%	71%	79%
1x33 kV Hualte - Quirihue	22%	24%	27%	24%	26%	26%	28%
1x33 kV Lajuelas - Recinto	16%	18%	20%	21%	22%	22%	23%
1x33 kV Lajuelas - Santa Elisa	66%	73%	81%	84%	88%	87%	94%
1x33 kV Quilmo - Lajuelas	81%	90%	100%	104%	109%	108%	116%
1x15 kV San Francisco de Mostazal - Pacifico	83%	81%	89%	77%	86%	79%	79%
1x13,2 kV El Paico - Mallarauco	20%	20%	21%	21%	20%	20%	21%

Tabla 6.4.44. Cargabilidad de líneas de transmisión en escenario Invierno Día, Zona Alto Jahuel - Charrúa.

Línea	2019	2020	2021	2022	2023	2024	2025
2x220 kV Dichato - Nueva Cauquenes C1						8%	9%
2x220 kV Dichato - Nueva Cauquenes C2						8%	9%
2x220 kV Hualqui - Dichato C1						7%	8%
2x220 kV Hualqui - Dichato C2						6%	7%
2x220 kV Nueva Nirivilo - Mataquito C1						8%	8%
2x220 kV Nueva Nirivilo - Mataquito C2						8%	8%
1x220 kV Candelaria - Tuniche						11%	11%
1x220 kV Candelaria - Tuniche						11%	11%
1x220 kV Charrúa - Hualqui					19%	27%	29%
1x220 kV Hualqui - Lagunillas					9%	2%	2%
1x220 kV Itahue - Mataquito C1					3%	9%	9%
1x220 kV Itahue - Mataquito C2					3%	9%	9%
1x220 kV Nueva Cauquenes - Nueva Nirivilo						7%	8%
1x220 kV Nueva Cauquenes - Nueva Nirivilo						7%	8%
1x220 kV Santa Isabel - Maule	31%	35%	37%	41%	44%	38%	41%
1x220 kV Tuniche - Punta de Cortés C1						11%	11%
1x220 kV Tuniche - Punta de Cortés C2						11%	11%
2x154 kV Villaseca - Tap Fátima C1	38%	43%	49%	53%	54%	40%	41%
2x154 kV Villaseca - Tap Fátima C2	37%	43%	49%	53%	54%	40%	41%
1x154 kV Alto Jahuel - Villaseca C1	37%	43%	49%	53%	54%	39%	41%
1x154 kV Alto Jahuel - Villaseca C2	37%	43%	49%	53%	54%	40%	41%
1x154 kV Charrúa - Chillán	33%	35%	37%	39%	40%	42%	44%
1x154 kV Charrúa - Pueblo Seco			30%	34%	37%	25%	28%
1x154 kV Estructura N8 - San Fernando 1	36%	37%	37%	40%	39%	34%	35%
1x154 kV Estructura N8 - San Fernando 2	35%	37%	39%	42%	44%	45%	48%

Línea	2019	2020	2021	2022	2023	2024	2025
1x154 kV Itahue - Maule	1%	1%	3%	4%	3%	8%	6%
1x154 kV Itahue - Tap Teno C1	32%	32%	29%	30%	30%	25%	25%
1x154 kV Itahue - Tap Teno C2	54%	56%	54%	55%	56%	52%	52%
1x154 kV Linares - Maule kV	23%	25%	29%	32%	36%	26%	27%
1x154 kV Linares - Tap Yervas Buenas	17%	18%	23%	25%	28%	18%	18%
1x154 kV Parral - Linares	0%	0%	0%	0%	0%	0%	0%
1x154 kV Parral - Tap Chillán	30%	35%	34%	37%	39%	18%	19%
1x154 kV Pueblo Seco - Monterrico			30%	34%	37%	25%	28%
1x154 kV Tap Fátima - Fátima C1	9%	15%	15%	22%	20%	6%	8%
1x154 kV Tap Fátima - Fátima C2	27%	33%	35%	37%	54%	40%	41%
1x154 kV Tap Fátima - Tap Paine	29%	30%	36%	38%	27%	12%	12%
1x154 kV Tap Fátima - Tap Tuniche	9%	15%	15%	22%	20%	6%	8%
1x154 kV Tap Fátima - Tap Tuniche	13%	15%	17%	19%	20%	6%	8%
1x154 kV Tap Malloa - Tap Tilcoco C1	25%	35%	33%	34%	36%	25%	22%
1x154 kV Tap Malloa - Tap Tilcoco C2	43%	35%	33%	34%	36%	25%	22%
1x154 kV Tap Monterrico - Tap Chillán	24%	29%	30%	34%	37%	26%	28%
1x154 kV Tap Paine - Paine	31%	27%	28%	31%	12%	12%	13%
1x154 kV Tap Paine-Tuniche C1	9%	15%	16%	18%	19%	6%	9%
1x154 kV Tap Paine-Tuniche C2	13%	15%	17%	19%	20%	6%	8%
1x154 kV Tap Tilcoco - Tap P.Cortes C1	25%	35%	33%	34%	36%	25%	22%
1x154 kV Tap Tilcoco - Tap P.Cortes C2	43%	35%	33%	34%	36%	25%	22%
1x154 kV Teno Empalme - Teno	52%	55%	57%	59%	61%	62%	65%
1x154 kV Tinguiririca - Estructura N8 C1	41%	43%	44%	23%	24%	23%	24%
1x154 kV Tinguiririca - Estructura N8 C2				23%	24%	23%	24%
1x154 kV Tinguiririca - Tap Malloa C1	50%	53%	52%	54%	54%	41%	40%
1x154 kV Tinguiririca - Tap Malloa C2	50%	53%	52%	54%	55%	41%	40%
1x154 kV Tuniche - Punta de Cortes C1	40%	17%	13%	13%	14%	31%	24%

Línea	2019	2020	2021	2022	2023	2024	2025
1x154 kV Tuniche - Punta de Cortes C2	15%	16%	11%	11%	13%	31%	24%
1x154 kV Tuniche - Rancagua C1	2%	18%	19%	21%	24%	25%	20%
1x154 kV Tuniche - Rancagua C2	28%	18%	19%	20%	24%	24%	20%
1x110 kV Quelentaro - Las Arañas	33%	36%	37%	40%	41%	41%	43%
1x110 kV Quelentaro - Portezuelo	26%	30%	32%	36%	45%	22%	23%
2x66 kV Dichato - Tome C1						14%	14%
2x66 kV Dichato - Tome C2						14%	14%
2x66 kV Hualqui - Chiguayante C1					19%	16%	16%
2x66 kV Hualqui - Chiguayante C2					19%	16%	16%
2x66 kV Nirivilo - Nueva Nirivilo C1						37%	41%
2x66 kV Nirivilo - Nueva Nirivilo C2						15%	16%
2x66 kV Nueva Nirivilo - Constitución C1						22%	21%
2x66 kV Nueva Nirivilo - Constitución C2						15%	15%
1x66 kV Alameda - Cachapoal	0%	0%	0%	0%	0%	0%	0%
1x66 kV Alto Jahuel - Buin	43%	45%	47%	48%	50%	52%	54%
1x66 kV Bajo Melipilla - Chocalán	27%	28%	28%	30%	30%	32%	34%
1x66 kV Bajo Melipilla - El Maitén	32%	32%	33%	35%	38%	40%	42%
1x66 kV Buin (CGE) - Estructura 101	21%	21%	22%	22%	23%	24%	25%
1x66 kV Cachapoal-Machalí	23%	25%	27%	28%	30%	30%	33%
1x66 kV Cauquenes - La Vega	10%	11%	12%	13%	13%	11%	12%
1x66 kV Cauquenes - Tap Paso Hondo	53%	57%	61%	67%	69%	15%	17%
1x66 kV Charrúa - Santa Clara	2%	1%	1%	2%	3%	4%	5%
1x66 kV Chillán - Tap El Nevado	0%	0%	0%	0%	0%	0%	0%
1x66 kV Chimbarongo - Quinta	10%	11%	12%	12%	13%	13%	14%
1x66 kV Chocalán - Mandinga	0%	0%	0%	0%	0%	0%	0%
1x66 kV Chumaquito - Rosario	48%	48%	49%	50%	48%	47%	51%
1x66 kV Cocharcas - Hualte	15%	16%	17%	17%	18%	18%	19%

Línea	2019	2020	2021	2022	2023	2024	2025
1x66 kV Cocharcas - Tap San Carlos	37%	38%	41%	42%	43%	44%	47%
1x66 kV Codegua - Tap Graneros	32%	34%	36%	39%	14%	16%	13%
1x66 kV Constitución - Celco	19%	18%	18%	18%	18%	29%	26%
1x66 kV Constitución - Viñales	18%	18%	18%	18%	18%	20%	19%
1x66 kV Dole - Rancagua	2%	13%	13%	18%	30%	31%	17%
1x66 kV El Maitén - El Paico	16%	17%	17%	19%	20%	21%	23%
1x66 kV El Manzano - Esperanza					18%	45%	47%
1x66 kV El Paico - El Monte	13%	13%	13%	14%	15%	16%	16%
1x66 kV El Peumo - Santa Rosa	29%	31%	32%	34%	35%	35%	36%
1x66 kV Est. 36 A - Hospital	20%	21%	22%	22%	23%	24%	25%
1x66 kV Estructura101 - Paine	0%	0%	0%	0%	0%	0%	0%
1x66 kV Fátima - Est. 36A	30%	31%	33%	32%	34%	35%	37%
1x66 kV Fátima - Isla de Maipo		13%	13%	21%	33%	33%	34%
1x66 kV Graneros - Indura	2%	16%	16%	22%	36%	38%	21%
1x66 kV Hospital - S. Francisco de Mostazal	30%	36%	38%	42%	0%	0%	0%
1x66 kV Hualañe - Lincantén	4%	4%	3%	3%	3%	2%	2%
1x66 kV Hualañe - Rangulí	6%	6%	7%	7%	7%	7%	7%
1x66 kV Indura - Dole	26%	26%	26%	25%	25%	24%	25%
1x66 kV I.Maipo - P.Talagante	2%	13%	13%	18%	30%	31%	17%
1x66 kV Isla de Maipo - El Monte	0%	0%	0%	0%	0%	0%	0%
1x66 kV Itahue - Molina C1	68%	76%	74%	80%	89%	90%	100%
1x66 kV Itahue - Molina C2	72%	80%	77%	84%	85%	86%	95%
1x66 kV La Ronda - San Vicente	59%	64%	74%	80%	55%	30%	28%
1x66 kV Las Arañas - El Peumo	41%	44%	46%	49%	50%	50%	52%
1x66 kV Las Cabras - El Manzano	20%	21%	22%	21%	22%	87%	91%
1x66 kV Lihueimo - Marchigüe	48%	54%	58%	64%	61%	61%	65%
1x66 kV Linares - Chacahuin	15%	15%	15%	17%	14%	12%	12%

Línea	2019	2020	2021	2022	2023	2024	2025
1x66 kV Linares - Tap Longaví	28%	30%	39%	40%	51%	11%	10%
1x66 kV Lircay - Mariposas	10%	11%	11%	11%	11%	10%	11%
1x66 kV Lircay - Providencia	41%	42%	42%	42%	42%	41%	42%
1x66 kV Lirios - Chumaquito	75%	76%	79%	80%	79%	78%	84%
1x66 kV Lo Miranda - Loreto	17%	19%	20%	21%	21%	22%	23%
1x66 kV Los Tilos - Tap Tres Esquinas	18%	19%	20%	21%	22%	23%	24%
1x66 kV Malloa - Pelequén	30%	32%	32%	34%	35%	36%	38%
1x66 kV Malloa - Quinta Tilcoco	20%	21%	22%	23%	24%	25%	27%
1x66 kV Malloa - San Vicente de Tagua Tagua	72%	79%	84%	86%	71%	61%	63%
1x66 kV Malloa Nueva - Malloa	3%	4%	4%	4%	4%	4%	4%
1x66 kV Mandinga - Las Arañas	17%	18%	19%	20%	21%	21%	22%
1x66 kV Marchigue - Alcones	12%	13%	14%	15%	15%	15%	16%
1x66 kV Mataquito - Hualañe					4%	5%	5%
1x66 kV Mataquito - Tap Parronal					26%	25%	28%
1x66 kV Maule - Lircay	44%	45%	45%	45%	45%	43%	44%
1x66 kV Maule - San Miguel	54%	59%	66%	73%	72%	68%	73%
1x66 kV Maule - Talca	58%	65%	63%	70%	69%	65%	70%
1x66 kV Molina - Curico L1	75%	85%	77%	85%	88%	89%	101%
1x66 kV Molina - Curico L2	73%	82%	75%	82%	90%	92%	103%
1x66 kV Monterrico - Chillán	0%	0%	0%	0%	0%	0%	0%
1x66 kV Monterrico - Cocharcas	29%	31%	32%	33%	35%	35%	37%
1x66 kV Monterrico - Tap El Nevado	36%	36%	34%	36%	36%	42%	41%
1x66 kV Nancagua - Paniahue	1%	1%	1%	1%	1%	1%	1%
1x66 kV Nueva Aldea - Santa Elvira	120%	120%	120%	120%	120%	121%	120%
1x66 kV Nueva Cauquenes - Cauquenes						12%	13%
1x66 kV Nueva Cauquenes - Parral						8%	9%
1x66 kV Paine - I. Maipo	94%	73%	77%	81%	48%	50%	52%

Línea	2019	2020	2021	2022	2023	2024	2025
1x66 kV Paine - Tap Hospital	30%	36%	38%	42%	0%	0%	0%
1x66 kV Panguilemo - San Rafael	34%	36%	40%	42%	34%	28%	31%
1x66 kV Paniahue - Lihueimo	26%	29%	31%	34%	33%	33%	35%
1x66 kV Panimavida - Ancoa	0%	0%	0%	0%	0%	0%	0%
1x66 kV Parral - San Gregorio	12%	13%	14%	15%	15%	16%	17%
1x66 kV Parral - Tap Paso Hondo	33%	36%	38%	42%	44%	7%	8%
1x66 kV Parronales - Hualañe	13%	11%	12%	14%	15%	16%	17%
1x66 kV Parronales - Mataquito					86%	82%	91%
1x66 kV Pelequén - Tap Paloma	0%	0%	0%	0%	0%	0%	0%
1x66 kV Placilla - Nanchua	11%	12%	12%	13%	13%	14%	15%
1x66 kV Portezuelo - Marchigue	44%	49%	53%	59%	56%	56%	60%
1x66 kV Portzuelo - Tap Los Maitenes	4%	5%	5%	5%	23%	61%	64%
1x66 kV Punta de Cortés - Cachapoal C1	54%	59%	62%	66%	69%	70%	74%
1x66 kV Punta de Cortés - Cachapoal C2	54%	59%	62%	66%	69%	70%	74%
1x66 kV Punta de Cortés - Lo Miranda C1	44%	47%	48%	49%	50%	49%	51%
1x66 kV Punta de Cortés - Lo Miranda C2	40%	42%	43%	44%	45%	44%	46%
1x66 kV Punta de Cortés - Tuniche	57%	61%	64%	66%	68%	68%	73%
1x66 kV Quilmo - Chillán	0%	0%	0%	0%	0%	0%	0%
1x66 kV R1 - R2	0%	0%	0%	0%	0%	0%	0%
1x66 kV Rancagua - Alameda	51%	54%	57%	57%	60%	61%	68%
1x66 kV Rancagua - Cachapoal 66 kV	27%	32%	34%	34%	36%	37%	41%
1x66 kV Rancagua - R	0%	0%	0%	0%	0%	0%	0%
1x66 kV Rancagua - Tap El Teniente	95%	97%	100%	102%	100%	99%	107%
1x66 kV Rapel - Tap Nihue	0%	0%	0%	0%	0%	0%	0%
1x66 kV Rauquén - Curicó	29%	31%	30%	33%	34%	35%	38%
1x66 kV Rengo - Pelequén	27%	29%	29%	30%	32%	32%	34%
1x66 kV Retiro - Parral	11%	5%	13%	14%	21%	20%	23%

Línea	2019	2020	2021	2022	2023	2024	2025
1x66 kV Rosario - Rengo	0%	0%	0%	0%	0%	0%	0%
1x66 kV San Fernando - Chimbarongo	35%	38%	40%	42%	43%	45%	48%
1x66 kV San Fernando - Colchagua	46%	49%	51%	54%	55%	57%	60%
1x66 kV San Fernando - La Ronda	50%	49%	50%	53%	45%	30%	31%
1x66 kV San Fernando - Placilla	18%	19%	20%	22%	22%	23%	24%
1x66 kV San Francisco - Codegua	32%	34%	36%	39%	14%	16%	13%
1x66 kV San Ignacio - San Clemente	11%	12%	13%	14%	15%	15%	16%
1x66 kV San Javier - Constitución	25%	25%	24%	24%	24%	39%	43%
1x66 kV San Miguel - Talca	38%	42%	48%	54%	53%	49%	53%
1x66 kV San Rafael - Itahue	63%	68%	74%	78%	71%	66%	72%
1x66 kV San Vicente Tagua Tagua - Las Cabras	63%	68%	74%	78%	71%	66%	72%
1x66 kV Santa Clara - Los Tilos	44%	46%	48%	51%	20%	34%	34%
1x66 kV Santa Elvira - Tap El Nevado	60%	63%	67%	72%	75%	77%	82%
1x66 kV Santa Rosa - Alhué	62%	62%	59%	62%	63%	72%	70%
1x66 kV Talca - La Palma	20%	21%	21%	22%	23%	22%	23%
1x66 kV Talca - Panguilemo	22%	17%	17%	15%	13%	25%	27%
1x66 kV Talca - Piduco	32%	34%	38%	40%	53%	46%	51%
1x66 kV Talca - San Clemente	83%	92%	96%	103%	109%	109%	121%
1x66 kV Talca - Tap Panguilemo	0%	0%	0%	0%	0%	0%	0%
1x66 kV Talca - Tap San Javier	32%	34%	38%	40%	53%	46%	51%
1x66 kV Tap Chacahuin - Embalse Ancoa	29%	28%	27%	27%	26%	45%	49%
1x66 kV Tap El Teniente - Tap Lirios	32%	31%	31%	36%	29%	26%	27%
1x66 kV Tap Graneros - Graneros	53%	54%	56%	57%	55%	55%	60%
1x66 kV Tap Hospital - Hospital	25%	26%	28%	29%	29%	30%	32%
1x66 kV Tap La Paloma - La Ronda	0%	0%	0%	0%	0%	0%	0%
1x66 kV Tap Linares Norte - Linares	0%	0%	0%	0%	0%	0%	0%
1x66 kV Tap Longaví - Retiro	29%	31%	33%	35%	36%	37%	39%

Línea	2019	2020	2021	2022	2023	2024	2025
1x66 kV Tap Maestranza - R2	13%	19%	24%	22%	35%	11%	12%
1x66 kV Tap Nihue - La Manga	0%	0%	0%	0%	0%	0%	0%
1x66 kV Tap Nihue - Las Arañas	16%	17%	18%	19%	20%	20%	21%
1x66 kV Tap Ñiquen - Parral	20%	22%	23%	25%	25%	26%	27%
1x66 kV Tap Paloma - San Fernando	1%	1%	1%	1%	1%	1%	1%
1x66 kV Tap Panguilemo - Tap Los Maquis	0%	0%	0%	0%	0%	0%	0%
1x66 kV Tap Paso Hondo - Paso Hondo	42%	45%	49%	52%	86%	80%	88%
1x66 kV Tap Putagan - Panimavida	4%	4%	4%	5%	5%	5%	5%
1x66 kV Tap Quinta - Teno	19%	21%	22%	23%	24%	25%	27%
1x66 kV Tap San Carlos - Tap Ñiquen	0%	0%	0%	0%	0%	0%	0%
1x66 kV Tap San Javier - Villa Alegre 66 kV	1%	1%	1%	1%	1%	1%	1%
1x66 kV Tap Tres Esquinas - Larqui	1%	1%	1%	1%	1%	1%	1%
1x66 kV Tap Tres Esquinas - Quilmo			0%	0%	0%	0%	0%
1x66 kV Tap Tres Esquinas - Tres Esquinas	9%	9%	10%	11%	11%	11%	12%
1x66 kV Tap Villa Prat - Itahue	42%	45%	47%	50%	52%	54%	57%
1x66 kV Tap Villa Prat - Villa Prat	62%	67%	72%	76%	52%	46%	50%
1x66 kV Teno - Rauquén	33%	33%	36%	40%	68%	62%	68%
1x66 kV Villa Alegre - Tap Linares Norte	54%	59%	58%	62%	65%	67%	72%
1x66 kV Villa Prat - Parronales	8%	9%	9%	10%	10%	10%	11%
1x33 kV Hualte - Quirihue	15%	12%	14%	16%	85%	81%	89%
1x33 kV Lajuelas - Recinto	23%	24%	26%	27%	27%	28%	30%
1x33 kV Lajuelas - Santa Elisa	24%	26%	28%	30%	32%	33%	35%
1x33 kV Quilmo - Lajuelas	46%	49%	52%	56%	58%	60%	64%
1x15 kV San Francisco de Mostazal - Pacifico	75%	80%	86%	92%	96%	99%	106%
1x13,2 kV El Paico - Mallarauco	80%	80%	81%	81%	76%	73%	76%

Tabla 6.4.45. Cargabilidad de líneas de transmisión en escenario Invierno Noche, Zona Alto Jahuel - Charrúa.

Línea	2019	2020	2021	2022	2023	2024	2025
2x220 kV Dichato - Nueva Cauquenes C1						4%	5%
2x220 kV Dichato - Nueva Cauquenes C2						4%	5%
2x220 kV Hualqui - Dichato C1						5%	6%
2x220 kV Hualqui - Dichato C2						6%	6%
2x220 kV Nueva Nirivilo - Mataquito C1						4%	5%
2x220 kV Nueva Nirivilo - Mataquito C2						4%	5%
1x220 kV Candelaria - Tuniche						7%	8%
1x220 kV Candelaria - Tuniche						7%	8%
1x220 kV Charrúa - Hualqui					38%	49%	50%
1x220 kV Hualqui - Lagunillas					29%	21%	21%
1x220 kV Itahue - Mataquito C1					2%	5%	5%
1x220 kV Itahue - Mataquito C2					2%	5%	5%
1x220 kV Nueva Cauquenes - Nueva Nirivilo						4%	4%
1x220 kV Nueva Cauquenes - Nueva Nirivilo						4%	4%
1x220 kV Santa Isabel - Maule	25%	27%	29%	33%	33%	32%	34%
1x220 kV Tuniche - Punta de Cortés C1						7%	8%
1x220 kV Tuniche - Punta de Cortés C2						7%	8%
2x154 kV Villaseca - Tap Fátima C1	20%	23%	26%	29%	25%	23%	25%
2x154 kV Villaseca - Tap Fátima C2	20%	23%	26%	29%	25%	23%	25%
1x154 kV Alto Jahuel - Villaseca C1	20%	23%	26%	29%	25%	23%	25%
1x154 kV Alto Jahuel - Villaseca C2	20%	23%	26%	29%	25%	23%	25%
1x154 kV Charrúa - Chillán	27%	29%	29%	30%	32%	34%	35%
1x154 kV Charrúa - Pueblo Seco			24%	26%	23%	21%	22%
1x154 kV Estructura N8 - San Fernando 1	25%	27%	27%	29%	30%	27%	28%
1x154 kV Estructura N8 - San Fernando 2	25%	27%	28%	30%	29%	32%	34%
1x154 kV Itahue - Maule	10%	11%	12%	12%	4%	14%	14%

Línea	2019	2020	2021	2022	2023	2024	2025
1x154 kV Itahue - Tap Teno C1	34%	34%	32%	33%	34%	30%	30%
1x154 kV Itahue - Tap Teno C2	52%	53%	51%	53%	54%	51%	51%
1x154 kV Linares - Maule kV	11%	11%	12%	13%	22%	8%	9%
1x154 kV Linares - Tap Yervas Buenas	10%	9%	9%	10%	21%	7%	6%
1x154 kV Parral - Linares	0%	0%	0%	0%	0%	0%	0%
1x154 kV Parral - Tap Chillán	22%	22%	26%	28%	25%	21%	22%
1x154 kV Pueblo Seco - Monterrico			24%	26%	23%	21%	22%
1x154 kV Tap Fátima - Fátima C1	5%	12%	14%	14%	3%	5%	4%
1x154 kV Tap Fátima - Fátima C2	20%	25%	25%	26%	25%	23%	25%
1x154 kV Tap Fátima - Tap Paine	15%	12%	15%	18%	8%	5%	6%
1x154 kV Tap Fátima - Tap Tuniche	5%	12%	14%	14%	3%	5%	4%
1x154 kV Tap Fátima - Tap Tuniche	9%	8%	9%	10%	3%	5%	4%
1x154 kV Tap Malloa - Tap Tilcoco C1	32%	41%	40%	41%	42%	33%	33%
1x154 kV Tap Malloa - Tap Tilcoco C2	48%	41%	40%	41%	42%	33%	33%
1x154 kV Tap Monterrico - Tap Chillán	19%	19%	25%	27%	24%	21%	23%
1x154 kV Tap Paine - Paine	43%	33%	37%	38%	17%	19%	20%
1x154 kV Tap Paine-Tuniche C1	13%	9%	10%	11%	4%	6%	5%
1x154 kV Tap Paine-Tuniche C2	9%	8%	9%	10%	3%	5%	4%
1x154 kV Tap Tilcoco - Tap P.Cortes C1	32%	41%	40%	41%	42%	33%	33%
1x154 kV Tap Tilcoco - Tap P.Cortes C2	48%	41%	40%	41%	42%	33%	33%
1x154 kV Teno Empalme - Teno	39%	41%	43%	44%	41%	45%	47%
1x154 kV Tinguiririca - Estructura N8 C1	27%	29%	30%	16%	16%	16%	17%
1x154 kV Tinguiririca - Estructura N8 C2				16%	16%	16%	17%
1x154 kV Tinguiririca - Tap Malloa C1	51%	52%	53%	55%	55%	45%	46%
1x154 kV Tinguiririca - Tap Malloa C2	51%	52%	53%	55%	55%	45%	46%
1x154 kV Tuniche - Punta de Cortes C1	41%	23%	20%	20%	23%	31%	31%
1x154 kV Tuniche - Punta de Cortes C2	10%	22%	19%	19%	22%	30%	31%

Línea	2019	2020	2021	2022	2023	2024	2025
1x154 kV Tuniche - Rancagua C1	3%	14%	17%	18%	17%	19%	21%
1x154 kV Tuniche - Rancagua C2	22%	13%	16%	18%	16%	19%	21%
1x110 kV Quelentaro - Las Arañas	30%	32%	33%	35%	36%	39%	40%
1x110 kV Quelentaro - Portezuelo	26%	28%	30%	31%	32%	28%	28%
2x66 kV Dichato - Tome C1						13%	13%
2x66 kV Dichato - Tome C2						13%	13%
2x66 kV Hualqui - Chiguayante C1					18%	15%	15%
2x66 kV Hualqui - Chiguayante C2					18%	15%	15%
2x66 kV Nirivilo - Nueva Nirivilo C1						27%	29%
2x66 kV Nirivilo - Nueva Nirivilo C2						12%	13%
2x66 kV Nueva Nirivilo - Constitución C1						15%	14%
2x66 kV Nueva Nirivilo - Constitución C2						11%	10%
1x66 kV Alameda - Cachapoal	0%	0%	0%	0%	0%	0%	0%
1x66 kV Alto Jahuel - Buin	35%	36%	36%	38%	39%	40%	41%
1x66 kV Bajo Melipilla - Chocalán	23%	25%	26%	28%	28%	30%	31%
1x66 kV Bajo Melipilla - El Maitén	20%	22%	23%	25%	26%	28%	30%
1x66 kV Buin (CGE) - Estructura 101	16%	16%	17%	19%	18%	20%	21%
1x66 kV Cachapoal-Machalí	29%	31%	32%	35%	34%	37%	39%
1x66 kV Cauquenes - La Vega	6%	6%	7%	7%	7%	7%	7%
1x66 kV Cauquenes - Tap Paso Hondo	45%	48%	50%	55%	55%	7%	7%
1x66 kV Charrúa - Santa Clara	11%	10%	9%	9%	3%	4%	5%
1x66 kV Chillán - Tap El Nevado	0%	0%	0%	0%	0%	0%	0%
1x66 kV Chimbarongo - Quinta	6%	7%	7%	7%	7%	8%	8%
1x66 kV Chocalán - Mandinga	0%	0%	0%	0%	0%	0%	0%
1x66 kV Chumaquito - Rosario	24%	24%	23%	24%	24%	25%	26%
1x66 kV Cocharcas - Hualte	7%	7%	8%	8%	8%	9%	9%
1x66 kV Cocharcas - Tap San Carlos	29%	31%	33%	34%	35%	37%	39%

Línea	2019	2020	2021	2022	2023	2024	2025
1x66 kV Codegua - Tap Graneros	25%	27%	34%	36%	13%	12%	12%
1x66 kV Constitución - Celco	19%	18%	18%	17%	23%	27%	25%
1x66 kV Constitución - Viñales	18%	18%	18%	18%	18%	19%	19%
1x66 kV Dole - Rancagua	8%	8%	26%	26%	24%	26%	28%
1x66 kV El Maitén - El Paico	20%	22%	24%	25%	27%	28%	30%
1x66 kV El Manzano - Esperanza					2%	20%	22%
1x66 kV El Paico - El Monte	15%	16%	17%	18%	19%	20%	21%
1x66 kV El Peumo - Santa Rosa	17%	18%	19%	19%	20%	21%	22%
1x66 kV Est. 36 A - Hospital	19%	20%	22%	23%	22%	25%	26%
1x66 kV Estructura101 - Paine	0%	0%	0%	0%	0%	0%	0%
1x66 kV Fátima - Est. 36A	27%	28%	30%	33%	32%	35%	37%
1x66 kV Fátima - Isla de Maipo		21%	17%	18%	29%	31%	33%
1x66 kV Graneros - Indura	9%	9%	30%	30%	27%	30%	32%
1x66 kV Hospital - S. Francisco de Mostazal	17%	18%	35%	34%	0%	0%	0%
1x66 kV Hualañe - Lincantén	1%	11%	6%	6%	2%	2%	3%
1x66 kV Hualañe - Ranguli	3%	4%	4%	4%	4%	4%	5%
1x66 kV I.Maipo - P.Talagante	25%	24%	25%	25%	23%	24%	25%
1x66 kV Indura - Dole	8%	8%	26%	26%	24%	26%	28%
1x66 kV Isla de Maipo - El Monte	0%	0%	0%	0%	0%	0%	0%
1x66 kV Itahue - Molina C1	50%	54%	57%	62%	61%	72%	78%
1x66 kV Itahue - Molina C2	54%	58%	62%	67%	56%	67%	72%
1x66 kV La Ronda - San Vicente	55%	56%	73%	81%	62%	37%	36%
1x66 kV Las Arañas - El Peumo	22%	23%	24%	25%	25%	28%	29%
1x66 kV Las Cabras - El Manzano	10%	11%	11%	18%	19%	26%	29%
1x66 kV Lihueimo - Marchigue	24%	24%	25%	27%	28%	31%	33%
1x66 kV Linares - Chacahuin	33%	31%	18%	16%	35%	20%	17%
1x66 kV Linares - Tap Longaví	27%	23%	25%	27%	32%	3%	5%

Línea	2019	2020	2021	2022	2023	2024	2025
1x66 kV Lircay - Mariposas	8%	8%	8%	9%	8%	8%	8%
1x66 kV Lircay - Providencia	33%	33%	34%	34%	30%	32%	33%
1x66 kV Lirios - Chumaquito	39%	41%	39%	41%	41%	44%	46%
1x66 kV Lo Miranda - Loreto	12%	12%	13%	14%	13%	15%	16%
1x66 kV Los Tilos - Tap Tres Esquinas	16%	17%	18%	19%	20%	21%	22%
1x66 kV Malloa - Pelequén	39%	42%	44%	28%	27%	30%	32%
1x66 kV Malloa - Quinta Tilcoco	18%	19%	20%	21%	21%	23%	25%
1x66 kV Malloa - San Vicente de Tagua Tagua	37%	39%	45%	45%	41%	33%	34%
1x66 kV Malloa Nueva - Malloa	3%	3%	3%	3%	3%	3%	3%
1x66 kV Mandinga - Las Arañas	13%	14%	15%	15%	16%	17%	18%
1x66 kV Marchigue - Alcones	8%	8%	9%	9%	9%	10%	11%
1x66 kV Mataquito - Hualañe					6%	7%	7%
1x66 kV Mataquito - Tap Parronal					22%	19%	20%
1x66 kV Maule - Lircay	33%	34%	34%	35%	31%	33%	33%
1x66 kV Maule - San Miguel	68%	51%	58%	63%	60%	62%	66%
1x66 kV Maule - Talca	74%	56%	56%	60%	57%	60%	63%
1x66 kV Molina - Curico L1	53%	57%	60%	65%	57%	68%	73%
1x66 kV Molina - Curico L2	50%	54%	58%	62%	59%	71%	76%
1x66 kV Monterrico - Chillán	0%	0%	0%	0%	0%	0%	0%
1x66 kV Monterrico - Cocharcas	56%	59%	62%	27%	27%	29%	31%
1x66 kV Monterrico - Tap El Nevado	44%	44%	43%	43%	45%	43%	42%
1x66 kV Nancagua - Paniahue	1%	0%	0%	0%	1%	1%	0%
1x66 kV Nueva Aldea - Santa Elvira	114%	114%	114%	114%	114%	114%	114%
1x66 kV Nueva Cauquenes - Cauquenes						9%	10%
1x66 kV Nueva Cauquenes - Parral						3%	4%
1x66 kV Paine - I. Maipo	60%	42%	45%	47%	28%	31%	33%
1x66 kV Paine - Tap Hospital	17%	18%	35%	34%	0%	0%	0%

Línea	2019	2020	2021	2022	2023	2024	2025
1x66 kV Panguilemo - San Rafael	34%	38%	40%	44%	35%	30%	32%
1x66 kV Paniahue - Lihueimo	44%	44%	47%	26%	28%	30%	32%
1x66 kV Panimavida - Ancoa	0%	0%	0%	0%	0%	0%	0%
1x66 kV Parral - San Gregorio	12%	13%	13%	14%	14%	15%	16%
1x66 kV Parral - Tap Paso Hondo	20%	22%	22%	24%	25%	1%	1%
1x66 kV Parronales - Hualañe	11%	24%	16%	17%	17%	20%	21%
1x66 kV Parronales - Mataquito					66%	55%	60%
1x66 kV Pelequén - Tap Paloma	0%	0%	0%	0%	0%	0%	0%
1x66 kV Placilla - Nanchua	7%	8%	8%	8%	8%	9%	10%
1x66 kV Portezuelo - Marchigue	39%	39%	41%	44%	46%	51%	54%
1x66 kV Portzuelo - Tap Los Maitenes	4%	4%	4%	4%	5%	23%	24%
1x66 kV Punta de Cortés - Cachapoal C1	54%	57%	60%	64%	62%	68%	72%
1x66 kV Punta de Cortés - Cachapoal C2	54%	57%	60%	64%	62%	68%	72%
1x66 kV Punta de Cortés - Lo Miranda C1	21%	22%	23%	24%	23%	24%	25%
1x66 kV Punta de Cortés - Lo Miranda C2	20%	21%	21%	22%	21%	23%	23%
1x66 kV Punta de Cortés - Tuniche	57%	59%	62%	66%	63%	69%	72%
1x66 kV Quilmo - Chillán	0%	0%	0%	0%	0%	0%	0%
1x66 kV R1 - R2	0%	0%	0%	0%	1%	1%	1%
1x66 kV Rancagua - Alameda	54%	56%	56%	60%	61%	68%	74%
1x66 kV Rancagua - Cachapoal 66 kV	28%	33%	33%	36%	37%	41%	44%
1x66 kV Rancagua - R	0%	0%	0%	0%	0%	0%	0%
1x66 kV Rancagua - Tap El Teniente	51%	54%	51%	53%	54%	58%	60%
1x66 kV Rapel - Tap Nihue	0%	0%	0%	0%	0%	0%	0%
1x66 kV Rauquén - Curicó	12%	13%	13%	14%	13%	15%	16%
1x66 kV Rengo - Pelequén	29%	31%	33%	24%	24%	26%	28%
1x66 kV Retiro - Parral	26%	17%	12%	16%	25%	23%	25%
1x66 kV Rosario - Rengo	0%	0%	0%	0%	0%	0%	0%

Línea	2019	2020	2021	2022	2023	2024	2025
1x66 kV San Fernando - Chimbarongo	27%	29%	31%	33%	32%	35%	37%
1x66 kV San Fernando - Colchagua	37%	39%	41%	43%	44%	47%	50%
1x66 kV San Fernando - La Ronda	31%	32%	38%	41%	35%	25%	25%
1x66 kV San Fernando - Placilla	22%	11%	11%	12%	12%	13%	14%
1x66 kV San Francisco - Codegua	25%	27%	34%	36%	13%	12%	12%
1x66 kV San Ignacio - San Clemente	5%	6%	6%	7%	6%	7%	8%
1x66 kV San Javier - Constitución	34%	32%	31%	30%	18%	31%	34%
1x66 kV San Miguel - Talca	33%	35%	41%	44%	44%	45%	47%
1x66 kV San Rafael - Itahue	51%	55%	58%	64%	56%	51%	54%
1x66 kV San Vicente Tagua Tagua - Las Cabras	21%	22%	23%	29%	30%	4%	5%
1x66 kV Santa Clara - Los Tilos	48%	51%	53%	57%	59%	63%	67%
1x66 kV Santa Elvira - Tap El Nevado	75%	76%	74%	74%	77%	74%	72%
1x66 kV Santa Rosa - Alhué	14%	15%	15%	16%	16%	17%	17%
1x66 kV Talca - La Palma	10%	7%	6%	4%	20%	21%	22%
1x66 kV Talca - Panguilemo	30%	32%	35%	38%	40%	39%	42%
1x66 kV Talca - Piduco	72%	76%	81%	88%	80%	92%	99%
1x66 kV Talca - San Clemente	0%	0%	0%	0%	0%	0%	0%
1x66 kV Talca - Tap Panguilemo	30%	32%	35%	38%	40%	39%	42%
1x66 kV Talca - Tap San Javier	16%	15%	14%	13%	22%	36%	39%
1x66 kV Tap Chacahuin - Embalse Ancoa	33%	31%	33%	28%	63%	35%	31%
1x66 kV Tap El Teniente - Tap Lirios	30%	32%	31%	32%	32%	35%	36%
1x66 kV Tap Graneros - Graneros	24%	26%	26%	28%	28%	31%	33%
1x66 kV Tap Hospital - Hospital	0%	0%	0%	0%	0%	0%	0%
1x66 kV Tap La Palma - La Ronda	0%	0%	0%	0%	0%	0%	0%
1x66 kV Tap Linares Norte - Linares	37%	39%	41%	20%	20%	21%	22%
1x66 kV Tap Longaví - Retiro	22%	15%	15%	16%	24%	13%	14%
1x66 kV Tap Maestranza - R2	0%	0%	0%	0%	1%	1%	1%

Línea	2019	2020	2021	2022	2023	2024	2025
1x66 kV Tap Nihue - La Manga	10%	11%	11%	12%	12%	14%	14%
1x66 kV Tap Nihue - Las Arañas	18%	20%	21%	22%	23%	25%	26%
1x66 kV Tap Ñiquen - Parral	1%	1%	1%	1%	1%	1%	1%
1x66 kV Tap Paloma - San Fernando	0%	0%	0%	0%	0%	0%	0%
1x66 kV Tap Panguilemo - Tap Los Maquis	36%	37%	41%	45%	55%	59%	65%
1x66 kV Tap Paso Hondo - Paso Hondo	2%	3%	3%	3%	3%	3%	3%
1x66 kV Tap Putagan - Panimavida	13%	14%	15%	16%	16%	17%	18%
1x66 kV Tap Quinta - Teno	0%	0%	0%	0%	0%	0%	0%
1x66 kV Tap San Carlos - Tap Ñiquen	1%	1%	1%	1%	1%	1%	1%
1x66 kV Tap San Javier - Villa Alegre 66 kV	1%	1%	1%	1%	1%	1%	1%
1x66 kV Tap Tres Esquinas - Larqui			0%	0%	0%	0%	0%
1x66 kV Tap Tres Esquinas - Quilmo	7%	7%	7%	8%	8%	9%	9%
1x66 kV Tap Tres Esquinas - Tres Esquinas	43%	46%	48%	51%	54%	57%	61%
1x66 kV Tap Villa Prat - Itahue	51%	57%	59%	64%	52%	40%	41%
1x66 kV Tap Villa Prat - Villa Prat	23%	35%	28%	31%	61%	44%	46%
1x66 kV Teno - Rauquén	26%	27%	28%	30%	29%	33%	35%
1x66 kV Villa Alegre - Tap Linares Norte	7%	8%	8%	9%	9%	9%	10%
1x66 kV Villa Prat - Parronales	14%	26%	18%	20%	65%	53%	57%
1x33 kV Hualte - Quirihue	10%	11%	11%	11%	12%	12%	13%
1x33 kV Lajuelas - Recinto	22%	23%	24%	26%	25%	27%	29%
1x33 kV Lajuelas - Santa Elisa	28%	29%	31%	33%	32%	34%	36%
1x33 kV Quilmo - Lajuelas	63%	64%	69%	74%	71%	76%	81%
1x15 kV San Francisco de Mostazal - Pacifico	81%	83%	79%	81%	77%	81%	82%
1x13,2 kV El Paico - Mallarauco	20%	20%	20%	20%	20%	20%	20%

6.4.6 ZONA CHARRÚA - CHILOÉ

6.4.6.1 Transformadores AT/MT

Tabla 6.4.46. Cargabilidad de transformadores AT/MT, Zona Charrúa – Chiloé.

Transformador	2019	2020	2021	2022	2023	2024	2025
AIHUAPI 66/24 kV 12 MVA	41%	44%	46%	48%	51%	53%	56%
AIHUAPI 66/24 kV 5 MVA 1	0%	0%	0%	0%	0%	0%	0%
ALTO BONITO 110/23 kV 30 MVA	94%	98%	103%	108%	113%	118%	123%
ANCUD 115/69/24/13,8 kV 16 MVA 1	68%	71%	75%	79%	83%	87%	91%
ANDALIEN 66/15 kV 25 MVA T1	72%	76%	80%	85%	89%	93%	98%
ANDALIEN 66/15 kV 25 MVA T2	72%	76%	80%	85%	89%	93%	98%
ANGOL 66/13,2 kV 16 MVA	3%	3%	3%	3%	3%	3%	3%
ANGOL 66/23 kV 12 MVA	31%	31%	31%	32%	32%	32%	32%
DEUCO 66/13,2 kV 16 MVA T1	47%	50%	53%	55%	58%	61%	64%
ARENAS BLANCAS 66/15 kV 22,5 MVA	53%	55%	58%	60%	63%	66%	68%
BARRO BLANCO 68.94/24-13,8 kV 20-30 MVA	36%	38%	40%	42%	43%	45%	47%
CABRERO 69/13,8 kV 10 MVA 1	0%	0%	0%	0%	0%	0%	0%
CABRERO 69/24-12 kV 16 MVA 2	59%	60%	61%	63%	64%	66%	67%
CABRERO 69/24 kV 16 MVA	85%	87%	88%	91%	93%	95%	97%
CALBUCO 115/69/24 kV 16 MVA	58%	61%	64%	67%	70%	73%	76%
CANETE 69/24 kV 16 MVA	63%	66%	70%	74%	77%	81%	85%
CARAMPANGUE 66/23 kV 10 MVA	67%	70%	74%	78%	82%	86%	90%
CARAMPANGUE 66/13,8 kV 5,2 MVA T2	44%	47%	49%	52%	54%	57%	60%
CASTRO 115/24 kV 16 MVA	74%	77%	81%	85%	90%	94%	99%
CHARRUA TR3 66/13,2 kV 5 MVA 1U	61%	63%	64%	66%	67%	69%	70%
CHIGUAYANTE 66/15 kV 16,6 MVA 2	100%	105%	110%	116%	122%	128%	135%

Transformador	2019	2020	2021	2022	2023	2024	2025
CHIGUAYANTE 66/24-15 kV 18,7 MVA 1	86%	90%	95%	100%	105%	110%	116%
CHIVILCAN 66/15 kV 25 MVA 2	80%	66%	69%	73%	76%	80%	84%
CHIVILCAN 66/15 kV 30 MVA 1	94%	66%	69%	73%	76%	80%	84%
CHIVILCAN 66/15 kV 22,5 MVA	0%	66%	69%	73%	76%	80%	84%
CHOLGUAN 230/13,8 kV 50 MVA 1	49%	50%	51%	53%	54%	55%	56%
CHONCHI 115/24 kV 30 MVA 1	36%	38%	40%	42%	44%	46%	48%
COLACO 69/24/13,8 kV 16 MVA 1	47%	49%	51%	53%	55%	57%	59%
PARGUA 110/23 kV 30 MVA	27%	28%	30%	31%	32%	34%	35%
COLLIPULLI 66/13,8 kV 2,6 MVA 1	0%	0%	0%	0%	0%	0%	0%
COLLIPULLI 66/13,2 kV 2,6 MVA 2	0%	0%	0%	0%	0%	0%	0%
COLLIPULLI 66/13,8 kV 2,6 MVA 3	0%	0%	0%	0%	0%	0%	0%
COLLIPULLI 66/MT kV 16 MVA T1	41%	43%	46%	48%	51%	53%	56%
COLO COLO 66/15 kV 30 MVA	67%	70%	74%	77%	81%	85%	89%
COLO COLO 66/15 kV 30 MVA 2	67%	70%	74%	77%	81%	85%	89%
CORONEL 69/15 kV 25 MVA 2	62%	66%	69%	73%	76%	80%	84%
CORONEL 66/15 kV 9 MVA 7	102%	108%	113%	119%	125%	132%	138%
CORRAL 66/13,8 kV 5 MVA	62%	65%	68%	71%	74%	78%	81%
CURACAUTIN 66/13,8 kV 2,6 MVA 1	0%	0%	0%	0%	0%	0%	0%
CURACAUTIN 66/13,2 kV 2,6 MVA 2	0%	0%	0%	0%	0%	0%	0%
CURACAUTÍN 66/MT kV 15 MVA T1	30%	32%	33%	35%	37%	39%	40%
CURANILAHUE 66/15 kV 5,2 MVA 1	49%	50%	52%	55%	57%	59%	61%
CURANILAHUE 66/24-13,8 kV 10 MVA 2	68%	71%	74%	77%	80%	83%	87%
DALCAHUE 110/23 kV 16 MVA	63%	65%	68%	71%	74%	77%	80%
DUQUECO 66/23 kV 30 MVA	59%	61%	63%	65%	68%	70%	72%
EJERCITO 66/15 kV 25 MVA 1	57%	59%	55%	58%	60%	63%	66%

Transformador	2019	2020	2021	2022	2023	2024	2025
EJERCITO 66/15 kV 25 MVA 2	57%	59%	55%	58%	60%	63%	66%
EL AVELLANO 66/23-13,2 kV 10 MVA 2	47%	49%	50%	52%	54%	56%	58%
EL AVELLANO 66/23-15 kV 11 MVA 1	47%	49%	50%	52%	54%	56%	58%
EL EMPALME 115/23 kV 16 MVA CTBC	87%	58%	60%	62%	65%	67%	70%
EL EMPALME 115/23 kV 16 MVA CTBC	0%	58%	60%	62%	65%	67%	70%
ESCUADRON 66/15 kV 30 MVA 3	78%	82%	86%	45%	47%	49%	52%
FRUTILLAR 66/23 kV 5 MVA 2	0%	0%	0%	0%	0%	0%	0%
FRUTILLAR 69/24-13,8 kV 8/10 MVA	0%	0%	0%	0%	0%	0%	0%
FRUTILLAR 69/24 kV 16 MVA T1	50%	52%	55%	58%	61%	64%	67%
GORBEA 66/13,8 kV 6,25 MVA 1	85%	89%	94%	62%	65%	68%	72%
IMPERIAL 66/24 kV 16 MVA CTBC	93%	98%	51%	54%	57%	60%	62%
NUEVA IMPERIAL 66/23 kV 16 MVA	0%	0%	51%	54%	57%	60%	62%
LA UNION 66/13,2 11-16 MVA 1	56%	58%	61%	64%	66%	69%	72%
LA UNION 66/23 kV 10 MVA 5	91%	95%	99%	103%	107%	112%	117%
LA UNION 66/23 kV 16 MVA 3	43%	45%	47%	49%	51%	53%	56%
LAJA TR1 66/13,8 kV 5,2 MVA 1U	71%	73%	74%	76%	78%	80%	81%
LAJA TR2 66/13,8 kV 5 MVA 1U	66%	67%	69%	70%	72%	74%	75%
LAS ENCINAS 66/15 kV 25 MVA 1	59%	63%	66%	69%	73%	76%	80%
LAS ENCINAS 66/15 kV 25 MVA 2	60%	63%	66%	70%	73%	77%	81%
LATORRE 66/15 kV 25 MVA 1	62%	65%	68%	71%	74%	78%	81%
LAUTARO 66/13,2 kV 10 MVA 1	45%	47%	50%	52%	55%	57%	60%
LAUTARO 66/13,2 kV 5 MVA	55%	58%	61%	64%	67%	70%	73%
LAUTARO 66/15 kV 5,25 MVA	52%	55%	58%	61%	64%	67%	70%
LAUTARO 66/23 kV 12 MVA	94%	95%	27%	27%	28%	28%	28%
LAUTARO 66/23 kV 30 MVA	0%	0%	27%	27%	28%	28%	28%

Transformador	2019	2020	2021	2022	2023	2024	2025
LEBU 66/13,8 kV 5,2 MVA	52%	55%	57%	61%	64%	67%	70%
LICANCO 69/24/13,8 kV 16 MVA	52%	55%	58%	61%	64%	67%	71%
LIRQUEN 66/15 kV 18,7 MVA	71%	74%	76%	79%	81%	84%	87%
LOMA COLORADA 66/15 kV 25 MVA 1	85%	90%	94%	99%	104%	109%	115%
LONCOCHE 66/13,8 kV 5 MVA 1	82%	86%	90%	95%	99%	104%	109%
LONCOCHE 66/24-13,8 kV 10 MVA 2	14%	14%	15%	16%	17%	17%	18%
LONCOCHE 66/24 kV 10 MVA 1	105%	110%	115%	121%	127%	133%	140%
LOS ANGELES 69/15.3 kV 30 MVA 4	54%	56%	34%	36%	38%	40%	42%
LOS ANGELES 69/15 kV 25 MVA 3	42%	44%	34%	36%	38%	40%	42%
LOS ÁNGELES 66/15 kV 30 MVA	0%	0%	34%	36%	38%	40%	42%
LOS LAGOS 66/13,8 kV 11-16 MVA CTBC	71%	74%	77%	81%	84%	88%	92%
LOS NEGROS 66/24 kV 5 MVA	44%	46%	48%	51%	54%	56%	59%
LOS SAUCES 69/24 kV 16 MVA	35%	36%	38%	40%	42%	44%	46%
LOS TAMBORES 69/24 kV 16 MVA	61%	64%	67%	71%	75%	78%	82%
LOTA 66/13,8 kV 30 MVA	36%	38%	39%	41%	43%	44%	46%
MANSO DE VELASCO 66/15 kV 22,5 MVA	65%	68%	71%	75%	78%	82%	85%
MANSO DE VELASCO 69/15 kV 25 MVA 1	77%	80%	84%	88%	93%	97%	101%
MAHNS 66/14.8 kV 10,5 MVA	61%	64%	67%	71%	74%	77%	81%
MAHNS 66/14.8 kV 6,25 MVA	61%	64%	67%	71%	74%	77%	81%
MARIQUINA 220/23 kV 30 MVA	36%	37%	39%	41%	43%	45%	48%
MELIPULLI 230/24 kV 60 MVA 33	80%	57%	60%	63%	65%	69%	72%
MELIPULLI 230/24 kV 60 MVA 44	64%	45%	48%	50%	52%	55%	57%
SANGRA 66/23 kV 30 MVA	51%	53%	56%	58%	61%	64%	67%
PUERTO MONTT 230/24 kV 60 MVA	0%	46%	48%	50%	53%	55%	57%
NAHUEL BUTA 66/13,2 kV 16 MVA	37%	39%	40%	42%	44%	45%	47%

Transformador	2019	2020	2021	2022	2023	2024	2025
NEGRETE 66/24 kV 16 MVA	69%	72%	76%	32%	34%	35%	37%
OSORNO 66/23 kV 30 MVA 1	54%	40%	42%	44%	47%	49%	51%
OSORNO 66/24 kV 30 MVA 2	54%	40%	42%	44%	47%	49%	51%
OSORNO 66/24 kV 30 MVA 3	54%	40%	42%	44%	47%	49%	51%
LA MISIÓN 66/23 kV 30 MVA	0%	48%	50%	52%	55%	57%	59%
PADRE LAS CASAS 69/15.3 kV 30 MVA	63%	66%	70%	73%	77%	81%	85%
PAILLACO 66/13,8 kV 4 MVA	0%	0%	0%	0%	0%	0%	0%
PANGUIPULLI 66/24 kV 16 MVA T1	43%	44%	46%	48%	50%	52%	55%
PANGUIPULLI 66/24 kV 16 MVA T2	53%	55%	58%	60%	63%	65%	68%
PENCO 66/24-14.4 kV 10 MVA	92%	97%	101%	106%	111%	116%	121%
PERALES 66/15 kV 25 MVA 1	80%	83%	69%	72%	75%	79%	82%
PERALES 66/15 kV 25 MVA 2	80%	83%	69%	72%	75%	79%	82%
PICARTE 66/24/13,8 kV 30 MVA 1	76%	80%	56%	59%	62%	65%	68%
PICARTE 66/24/13,8 kV 30 MVA 2	69%	72%	48%	51%	53%	56%	58%
NUEVA VALDIVIA 220/23 kV	0%	0%	37%	39%	41%	44%	46%
PICHIL 66/23 kV 16 MVA	61%	64%	67%	70%	74%	77%	81%
PICHIRROPULLI 66/13,8 kV 5 MVA	58%	61%	64%	68%	71%	75%	79%
PICHIRROPULLI 69/24 kV 10 MVA	70%	74%	78%	82%	86%	90%	95%
PID-PID 115/69/24/13,8 kV 16 MVA 1	70%	74%	77%	81%	85%	89%	93%
PILLANLELBUN 66/15 kV 5 MVA_1	72%	75%	79%	82%	86%	90%	94%
PILLANLELBUN 66/24-13,8 kV 5 MVA_2	100%	104%	109%	114%	120%	125%	130%
PILLANLELBUN 66/15 kV 5 MVA_3	49%	52%	54%	57%	59%	62%	65%
PILMAIQUEN 69/13,8 kV 10,2 MVA	0%	0%	0%	0%	0%	0%	0%
PITRUFQUEN 66/13,2 kV 10 MVA 1	67%	71%	74%	78%	82%	86%	90%
PITRUFQUEN 69/15 kV 10 MVA	64%	67%	70%	74%	78%	82%	85%

Transformador	2019	2020	2021	2022	2023	2024	2025
PITRUFQUEN 66/13,8 kV 20 MVA	45%	47%	49%	52%	55%	57%	60%
PUCHOCO 66/15 kV 11 MVA 1	82%	86%	90%	95%	100%	105%	110%
PUCON 66/24-15 kV 30 MVA	61%	64%	67%	71%	74%	78%	82%
PUERTO VARAS 66/24/13,8 kV 10 MVA 1	71%	75%	79%	83%	87%	91%	96%
PUERTO VARAS 66/24 kV 30 MVA 2	59%	62%	66%	69%	73%	76%	80%
PUMAHUE 69/15 kV 25 MVA 1	101%	107%	112%	54%	56%	59%	62%
PURRANQUE 66/24-13,8 kV 10 MVA 3	53%	41%	43%	46%	48%	50%	53%
PURRANQUE 66/24-13,8 kV 5 MVA 2	87%	66%	70%	74%	77%	81%	85%
RÍO NEGRO 66/23 kV 10 MVA	0%	38%	40%	42%	44%	46%	49%
QUELLON 110/23 kV 16 MVA 1	40%	41%	43%	45%	47%	50%	52%
QUELLON 110/23 kV 16 MVA 2	80%	83%	87%	91%	96%	100%	104%
SAN PEDRO 66/24-14.4 kV 10 MVA 2	32%	34%	36%	37%	39%	41%	43%
SAN PEDRO 66/15 kV 13,3 MVA	90%	94%	99%	105%	110%	115%	121%
TALCAHUANO 154/15 kV 18,7 MVA 3	76%	79%	83%	87%	91%	95%	100%
TALCAHUANO 66/15 kV 22,5 MVA 5	67%	70%	73%	77%	81%	84%	88%
TEMUCO 66/13,8 kV 6,25 MVA	127%	134%	141%	149%	156%	164%	172%
TEMUCO TR4 66/24 kV 4 MVA 1U	76%	80%	85%	89%	94%	99%	103%
TOME 66/23-13,2 kV 5 MVA 1	56%	59%	61%	64%	67%	69%	72%
TOME 66/23-13,2 kV 5 MVA 2	56%	59%	61%	64%	67%	69%	72%
TRAIQUEN 66/13,8 kV 2,4 MVA 3	89%	94%	99%	104%	110%	115%	121%
TRAIQUEN 66/13,2 kV 2,6 MVA 1	83%	87%	91%	96%	101%	106%	112%
TRAIQUEN 66/13,2 kV 2,6 MVA 2	83%	87%	91%	96%	101%	106%	112%
TRES PINOS 66/24 kV 10 MVA 2	50%	53%	55%	58%	61%	64%	67%
TRES PINOS 66/23 kV 5 MVA	50%	53%	55%	58%	61%	64%	67%
TRES PINOS 66/13,8 kV 5,2 MVA 1	26%	27%	29%	30%	32%	33%	35%

Transformador	2019	2020	2021	2022	2023	2024	2025
TUMBES 66/14,8 kV 16,6 MVA	59%	62%	64%	67%	69%	72%	75%
VALDIVIA 69/24/13,8 kV 30 MVA 2	10%	11%	11%	12%	12%	13%	14%
VALDIVIA 69/24/13,8 kV 30 MVA 3	28%	29%	12%	13%	14%	14%	15%
VICTORIA 66/24-14,4 kV 10 MVA	61%	64%	68%	71%	75%	79%	83%
VICTORIA 66/15 kV 6 MVA	61%	64%	68%	27%	28%	30%	31%
VILLARRICA 66/23-15 kV 30 MVA 2	51%	54%	57%	60%	63%	66%	69%
PICOLTUE 230/24 kV 30 MVA	27%	28%	30%	31%	33%	34%	36%
SANTA BARBARA 66/13,8 kV 5 MVA T1	27%	29%	30%	32%	33%	35%	37%
PILMAIQUEN 69/13,8 kV 10,2 MVA	0%	0%	0%	0%	0%	0%	0%
CHIRRE 110/23 kV 16 MVA	44%	46%	48%	51%	54%	56%	59%
EL TREBOL 66/15 kV 30 MVA	0%	0%	42%	44%	46%	48%	51%
Nuevo TR Pumahue 30 MVA	0%	0%	0%	54%	56%	59%	62%
Nuevo TR Escuadron 30 MVA	0%	0%	0%	45%	47%	49%	52%
Nuevo TR Loma Colorada 30 MVA	0%	0%	0%	41%	43%	46%	48%
FIBRANOVA 66/13,2 kV 23,5 MVA	25%	25%	26%	26%	26%	26%	26%

6.4.6.2 Transformadores AT/AT

Tabla 6.4.47. Cargabilidad de transformadores AT/AT en escenario Verano Día, Zona Charrúa – Chiloé.

Transformador	2019	2020	2021	2022	2023	2024	2025
Alonso de Ribera 154/66 kV_75 MVA_1	77,52%	66,33%	67,38%	44,90%	39,31%	33,68%	35,48%
Alonso de Ribera 154/66 kV_75 MVA_2	74,22%	63,51%	64,51%	42,98%	37,63%	32,23%	33,96%
Charrua 154/66 kV-75 MVA - T2	63,34%	56,68%	58,40%	60,60%	55,78%	56,92%	58,53%
Charrua 154/66 kV-75 MVA - T7							
Charrua 220/154 kV-390 MVA	51,03%	50,64%	50,75%	51,41%	51,89%	52,14%	52,01%
Concepcion 1 154/66 kV-30 MVA	92,99%	92,82%	94,05%	90,11%	90,83%	91,76%	91,27%

Transformador	2019	2020	2021	2022	2023	2024	2025
Concepcion 2 154/66 kV-30 MVA	41,50%	43,14%	43,85%	28,63%	26,49%	20,20%	21,09%
Concepcion 220/154 kV-260 MVA	64,19%	63,90%	64,34%	64,88%	65,41%	65,89%	65,62%
Concepcion 3 154/66 kV-30 MVA	43,50%	44,74%	45,47%	29,63%	27,57%	22,17%	22,05%
Coronel 154/69 kV-56 MVA _T6	28,43%	32,37%	31,68%	31,48%	31,85%	33,20%	35,04%
Coronel 154/69 kV-60 MVA _T3	65,18%	80,60%	55,59%	58,10%	55,94%	57,32%	58,92%
Coronel 154/69 kV_56 MVA_T5	49,83%	60,49%	38,74%	40,43%	40,83%	41,89%	43,04%
Coronel 154/69 kV_60 MVA_T4	58,33%	74,91%	42,74%	45,63%	44,96%	46,53%	48,52%
Duqueco 220/66 kV 75 MVA	24,73%	25,81%	26,64%	28,02%	28,74%	29,80%	31,00%
El Trebol 220/66 kV 90 MVA			12,26%	80,14%	75,79%	67,70%	70,86%
Los Varoenes 220/66 kV 90 MVA				49,66%	52,94%	54,44%	57,36%
Guindos 220/66 kV 90 MVA			60,89%	62,01%	69,82%	72,03%	75,16%
Hualpen 220/154 kV-300 MVA	47,91%	47,96%	40,76%	31,57%	29,34%	26,74%	27,43%
La Señoraza 220/66 kV 25 MVA					19,09%	20,02%	21,01%
Lagunillas 230/161/69 kV - 390 MVA	35,82%	40,26%	37,14%	35,01%	33,33%	31,75%	32,87%
Los Angeles 154/66/13,8 kV T3	64,53%	52,90%	56,57%	21,43%	22,15%	24,93%	27,00%
Los Angeles 154/66/13,8 kV T4	75,03%	63,36%	67,38%	27,07%	28,10%	31,22%	33,51%
Los Peumos 220/66 kV 75 MVA	27,12%	28,74%	30,29%	32,23%	33,56%	35,43%	37,55%
Gamboa 220/110 kV 90 MVA 1		15,42%	16,26%	16,86%	17,75%	18,27%	19,23%
Gamboa 220/110 kV 90 MVA 2		15,42%	16,26%	16,86%	17,75%	18,27%	19,23%
Chiloé 220/110/23 kV_90 MVA	26,42%	6,89%	6,83%	6,96%	7,01%	7,17%	7,40%
Melipeuco 110/23/13,8 kV 60 MVA	33,24%	33,23%	33,23%	33,16%	32,85%	32,82%	32,96%
Melipulli 220/110 kV_60 MVA (T11)	100,09%	54,91%	61,39%	63,53%	69,56%	67,42%	70,46%
Melipulli 220/66 kV_60 MVA (T22)	44,60%	72,86%	31,49%	30,25%	31,57%	34,63%	36,63%
Nueva Valdivia 60 MVA			0,00%	20,20%	22,50%	23,21%	24,12%
Nuevo TR Lastarria 75			25,65%	27,82%	31,74%	34,29%	37,15%
Nuevo TR Metrenco 2x60 MVA			38,55%	40,07%	38,67%	41,17%	44,02%
Pargua 220/110 60 MVA		44,03%	49,31%	51,04%	55,93%	62,47%	65,22%

Transformador	2019	2020	2021	2022	2023	2024	2025
Río Toltén 220/110/13,8 kV 60 MVA	28,93%	28,73%	28,53%	28,25%	27,77%	27,52%	27,42%
Llollehue 90 MVA T1		8,62%	25,44%	24,93%	27,10%	28,76%	30,64%
Llollehue 90 MVA T2		8,62%	25,44%	24,93%	27,10%	28,76%	30,64%
Temuco 220/66 kV-60 MVA T1	56,21%	56,63%	41,30%	43,74%	45,57%	48,08%	50,79%
Temuco 220/66 kV-75 MVA T2	69,08%	69,64%	51,07%	54,04%	56,26%	59,32%	62,60%
Temuco 220/66 kV-75 MVA T7	64,73%	65,21%	47,56%	50,37%	52,48%	55,37%	58,49%
Temuco 220/66 kV-75 MVA T8	67,60%	68,10%	49,66%	52,60%	54,80%	57,82%	61,08%
Llanquihue 220/66 kV 90 MVA			32,65%	36,93%	38,98%	40,27%	42,55%
Valdivia 220/66 kV-60 MVA	62,42%	54,60%	37,29%	32,65%	33,78%	35,15%	36,79%
Valdivia 220/66 kV-60 MVA 4	62,42%	54,60%	37,29%	32,65%	33,78%	35,15%	36,79%

Tabla 6.4.48. Cargabilidad de transformadores AT/AT en escenario Verano Noche, Zona Charrúa – Chiloé.

Transformador	2019	2020	2021	2022	2023	2024	2025
Alonso de Ribera 154/66 kV_75 MVA_1	57,27%	53,13%	54,17%	37,07%	30,69%	25,19%	26,35%
Alonso de Ribera 154/66 kV_75 MVA_2	54,83%	50,86%	51,87%	35,49%	29,38%	24,10%	25,21%
Charrua 154/66 kV-75 MVA - T2	61,41%	54,68%	56,44%	58,67%	53,42%	54,59%	56,20%
Charrua 154/66 kV-75 MVA - T7							
Charrua 220/154 kV-390MVA	51,72%	51,28%	51,33%	51,73%	52,15%	52,44%	52,34%
Concepcion 1 154/66 kV-30 MVA	90,45%	90,87%	91,15%	91,88%	92,47%	93,24%	92,90%
Concepcion 2 154/66 kV-30 MVA	29,22%	35,67%	36,34%	25,09%	22,61%	17,27%	17,80%
Concepcion 220/154 kV-260MVA	65,49%	65,16%	65,36%	65,71%	66,15%	66,57%	66,38%
Concepcion 3 154/66 kV-30 MVA	31,16%	36,10%	36,84%	24,84%	22,36%	22,53%	22,45%
Coronel 154/69 kV-56MVA _T6	33,87%	36,69%	28,17%	28,41%	28,54%	29,76%	31,33%
Coronel 154/69 kV-60MVA _T3	71,66%	79,28%	59,50%	61,88%	59,24%	60,57%	62,35%
Coronel 154/69 kV_56MVA _T5	56,33%	58,87%	37,90%	39,74%	39,83%	41,16%	42,46%
Coronel 154/69 kV_60MVA _T4	66,96%	72,45%	43,18%	46,20%	44,96%	46,85%	49,05%
Duqueco 220/66 kV 75 MVA	17,30%	18,09%	18,69%	19,51%	19,96%	20,68%	21,48%

Transformador	2019	2020	2021	2022	2023	2024	2025
El Trebol 220/66 kV 90 MVA			11,33%	63,78%	58,66%	52,36%	54,82%
Los Varoenes 220/66 kV 90 MVA				33,39%	37,91%	38,84%	40,94%
Guindos 220/66 kV 90 MVA			48,24%	49,68%	58,19%	60,84%	63,77%
Hualpen 220/154 kV-300MVA	51,73%	52,72%	53,53%	46,88%	44,51%	39,84%	40,40%
La Señoraza 220/66 kV 25 MVA					21,15%	22,15%	23,23%
Lagunillas 230/161/69 kV - 390 MVA	49,36%	51,03%	49,22%	47,94%	46,17%	42,48%	43,47%
Los Angeles 154/66/13,8 kV T3	50,08%	35,58%	37,67%	19,04%	18,18%	20,53%	22,23%
Los Angeles 154/66/13,8 kV T4	58,17%	43,88%	45,80%	23,16%	22,41%	25,15%	27,06%
Los Peumos 220/66 kV 75 MVA	28,21%	29,98%	31,60%	33,22%	34,30%	36,13%	38,22%
Gamboa 220/110 kV 90 MVA 1		18,08%	19,01%	19,64%	20,55%	20,87%	21,94%
Gamboa 220/110 kV 90 MVA 2		18,08%	19,01%	19,64%	20,55%	20,87%	21,94%
Chiloé 220/110/23 kV_90MVA	63,22%	27,12%	28,90%	30,27%	32,05%	33,35%	35,44%
Melipeuco 110/23/13,8 kV 60 MVA	33,62%	33,83%	33,87%	33,42%	32,77%	32,73%	32,90%
Melipulli 220/110 kV_60MVA (T11)	88,89%	53,22%	59,50%	61,38%	67,03%	61,07%	63,79%
Melipulli 220/66 kV_60MVA (T22)	46,89%	71,97%	30,75%	30,02%	30,84%	35,12%	37,20%
Nueva Valdivia 60 MVA			0,00%	20,93%	23,27%	24,40%	25,71%
Nuevo TR Lastarria 75			25,84%	28,56%	34,03%	36,77%	39,91%
Nuevo TR Metrenco 2x60 MVA			48,13%	47,51%	43,15%	45,76%	48,87%
Pargua 220/110 60 MVA		35,91%	40,58%	41,72%	45,92%	55,27%	57,68%
Río Toltén 220/110/13,8 kV 60 MVA	29,28%	29,26%	29,10%	28,48%	27,71%	27,45%	27,37%
Llollehue 90 MVA T1		9,09%	28,91%	27,16%	29,66%	31,39%	33,39%
Llollehue 90 MVA T2		9,09%	28,91%	27,16%	29,66%	31,39%	33,39%
Temuco 220/66 kV-60 MVA T1	57,14%	58,36%	38,43%	40,44%	41,94%	44,19%	46,62%
Temuco 220/66 kV-75 MVA T2	70,24%	71,70%	47,65%	50,14%	52,00%	54,73%	57,66%
Temuco 220/66 kV-75 MVA T7	65,80%	67,21%	44,25%	46,57%	48,30%	50,89%	53,69%
Temuco 220/66 kV-75 MVA T8	68,71%	70,18%	46,21%	48,63%	50,44%	53,14%	56,07%
Llanquihue 220/66 kV 90 MVA			34,16%	38,29%	40,15%	40,68%	43,02%

Transformador	2019	2020	2021	2022	2023	2024	2025
Valdivia 220/66 kV-60 MVA	60,08%	51,19%	34,91%	26,88%	27,69%	29,09%	30,78%
Valdivia 220/66 kV-60 MVA 4	58,25%	48,93%	32,74%	25,56%	26,31%	27,68%	29,32%

Tabla 6.4.49. Cargabilidad de transformadores AT/AT en escenario Invierno Día, Zona Charrúa – Chiloé.

Transformador	2019	2020	2021	2022	2023	2024	2025
Alonso de Ribera 154/66 kV_75 MVA_1	82,10%	71,77%	50,11%	52,98%	46,29%	39,81%	41,84%
Alonso de Ribera 154/66 kV_75 MVA_2	78,60%	68,72%	47,97%	50,72%	44,32%	38,11%	40,05%
Charrua 154/66 kV-75 MVA - T2	47,51%	49,09%	50,61%	46,89%	47,67%	49,31%	50,72%
Charrua 154/66 kV-75 MVA - T7							
Charrua 220/154 kV-390 MVA	51,49%	51,38%	51,41%	51,71%	52,07%	52,32%	52,22%
Concepcion 1 154/66 kV-30 MVA	94,24%	99,10%	90,85%	90,51%	91,08%	91,80%	91,31%
Concepcion 2 154/66 kV-30 MVA	37,95%	47,71%	33,47%	35,20%	32,67%	25,05%	26,15%
Concepcion 220/154 kV-260 MVA	64,58%	64,59%	65,28%	65,16%	65,57%	65,99%	65,74%
Concepcion 3 154/66 kV-30 MVA	41,09%	49,39%	34,30%	36,29%	33,79%	25,90%	27,29%
Coronel 154/69 kV-56 MVA _T6	22,69%	25,95%	21,11%	22,20%	22,01%	22,85%	24,00%
Coronel 154/69 kV-60 MVA _T3	67,88%	78,34%	50,65%	52,72%	50,43%	51,90%	53,95%
Coronel 154/69 kV_56 MVA _T5	63,10%	67,50%	43,87%	45,38%	45,17%	46,51%	48,00%
Coronel 154/69 kV_60 MVA _T4	77,05%	85,84%	52,83%	55,17%	53,74%	55,56%	57,87%
Duqueco 220/66 kV 75 MVA	26,50%	27,59%	28,39%	29,81%	30,57%	31,73%	33,01%
El Trebol 220/66 kV 90 MVA			73,14%	76,98%	71,99%	64,31%	67,83%
Los Varoenes 220/66 kV 90 MVA				23,96%	27,64%	27,68%	29,22%
Guindos 220/66 kV 90 MVA			57,04%	59,71%	69,17%	72,13%	75,41%
Hualpen 220/154 kV-300 MVA	52,27%	53,63%	46,82%	47,31%	44,92%	39,38%	40,06%
La Señoraza 220/66 kV 25 MVA				16,90%	17,63%	18,47%	19,38%
Lagunillas 230/161/69 kV - 390 MVA	33,51%	35,50%	31,11%	31,97%	30,36%	25,88%	26,83%
Los Angeles 154/66/13,8 kV T3	25,40%	27,81%	30,21%	20,81%	19,54%	22,12%	23,52%
Los Angeles 154/66/13,8 kV T4	32,55%	35,08%	37,62%	24,29%	23,05%	26,10%	27,72%

Transformador	2019	2020	2021	2022	2023	2024	2025
Los Peumos 220/66 kV 75 MVA	20,89%	22,13%	23,00%	24,46%	25,29%	26,65%	28,13%
Gamboa 220/110 kV 90 MVA 1		17,27%	17,78%	18,82%	19,53%	20,23%	21,27%
Gamboa 220/110 kV 90 MVA 2		17,27%	17,78%	18,82%	19,53%	20,23%	21,27%
Chiloé 220/110/23 kV_90 MVA	16,50%	38,01%	35,56%	34,25%	32,67%	30,48%	29,24%
Melipeuco 110/23/13,8 kV 60 MVA	33,66%	33,85%	33,32%	33,56%	32,96%	33,00%	33,19%
Melipulli 220/110 kV_60 MVA (T11)	45,72%	51,15%	52,79%	55,88%	61,61%	60,65%	63,39%
Melipulli 220/66 kV_60 MVA (T22)	69,25%	36,71%	31,27%	33,19%	37,11%	36,92%	39,06%
Nueva Valdivia 60 MVA			0,00%	34,44%	37,27%	38,30%	40,30%
Nuevo TR Lastarria 75			47,29%	49,87%	55,22%	58,40%	62,79%
Nuevo TR Metrenco 2x60 MVA			49,22%	53,02%	48,70%	52,86%	56,47%
Pargua 220/110 60 MVA	42,34%	47,04%	47,91%	49,97%	54,34%	59,17%	61,70%
Río Toltén 220/110/13,8 kV 60 MVA	30,36%	30,39%	29,77%	29,83%	29,13%	29,01%	29,01%
Llollehue 90 MVA T1	12,15%	26,26%	23,29%	24,00%	25,73%	27,62%	29,39%
Llollehue 90 MVA T2	12,15%	26,26%	23,29%	24,00%	25,73%	27,62%	29,39%
Temuco 220/66 kV-60 MVA T1	65,42%	70,15%	44,04%	46,96%	48,94%	51,86%	54,94%
Temuco 220/66 kV-75 MVA T2	80,58%	86,30%	54,83%	58,32%	60,74%	64,27%	67,98%
Temuco 220/66 kV-75 MVA T7	75,33%	80,77%	50,71%	54,07%	56,35%	59,72%	63,27%
Temuco 220/66 kV-75 MVA T8	78,67%	84,35%	52,95%	56,47%	58,85%	62,37%	66,07%
Llanquihue 220/66 kV 90 MVA		40,61%	35,80%	38,17%	38,98%	41,88%	44,29%
Valdivia 220/66 kV-60 MVA	67,53%	72,38%	51,19%	38,49%	39,60%	41,84%	44,18%
Valdivia 220/66 kV-60 MVA 4	65,18%	70,12%	48,77%	36,62%	37,62%	39,87%	42,17%

Tabla 6.4.50. Cargabilidad de transformadores AT/AT en escenario Invierno Noche, Zona Charrúa – Chiloé.

Transformador	2019	2020	2021	2022	2023	2024	2025
Alonso de Ribera 154/66 kV_75 MVA_1	73,27%	70,19%	52,41%	55,13%	45,64%	39,46%	41,24%
Alonso de Ribera 154/66 kV_75 MVA_2	70,15%	67,20%	50,18%	52,79%	43,69%	37,78%	39,48%
Charrua 154/66 kV-75 MVA - T2	44,23%	45,77%	47,28%	43,30%	44,10%	45,74%	47,11%

Transformador	2019	2020	2021	2022	2023	2024	2025
Charrua 154/66 kV-75 MVA - T7							
Charrua 220/154 kV-390 MVA	51,86%	51,77%	51,65%	51,91%	52,32%	52,63%	52,55%
Concepcion 1 154/66 kV-30 MVA	93,75%	97,66%	91,67%	91,36%	92,03%	92,91%	92,49%
Concepcion 2 154/66 kV-30 MVA	35,31%	47,19%	35,45%	37,11%	33,30%	26,76%	27,81%
Concepcion 220/154 kV-260 MVA	65,56%	65,49%	65,87%	65,76%	66,26%	66,72%	66,51%
Concepcion 3 154/66 kV-30 MVA	38,95%	48,62%	36,25%	38,16%	34,41%	27,41%	28,71%
Coronel 154/69 kV-56 MVA _T6	28,48%	31,38%	33,67%	35,63%	36,60%	38,28%	40,43%
Coronel 154/69 kV-60 MVA _T3	72,22%	77,58%	60,83%	62,73%	61,78%	63,25%	65,24%
Coronel 154/69 kV_56 MVA _T5	59,69%	55,75%	43,53%	44,88%	45,29%	46,68%	48,09%
Coronel 154/69 kV_60 MVA _T4	70,43%	68,67%	49,51%	51,75%	51,70%	53,66%	55,97%
Duqueco 220/66 kV 75 MVA	10,84%	11,26%	11,62%	12,14%	12,47%	12,90%	13,38%
El Trebol 220/66 kV 90 MVA			65,12%	69,19%	61,84%	55,23%	58,50%
Los Varoenes 220/66 kV 90 MVA				15,36%	15,38%	15,16%	15,62%
Guindos 220/66 kV 90 MVA			46,40%	49,30%	55,85%	58,94%	62,27%
Hualpen 220/154 kV-300 MVA	39,15%	41,34%	38,88%	39,49%	36,65%	31,03%	31,59%
La Señoraza 220/66 kV 25 MVA				17,66%	18,42%	19,28%	20,22%
Lagunillas 230/161/69 kV - 390 MVA	27,25%	27,66%	27,48%	28,48%	26,64%	22,23%	23,23%
Los Angeles 154/66/13,8 kV T3	6,39%	7,39%	8,16%	9,43%	10,00%	11,31%	12,14%
Los Angeles 154/66/13,8 kV T4	15,62%	16,37%	16,68%	10,49%	11,12%	13,07%	14,25%
Los Peumos 220/66 kV 75 MVA	23,02%	24,37%	25,49%	27,05%	28,14%	29,59%	31,22%
Gamboa 220/110 kV 90 MVA 1		6,75%	6,98%	7,40%	7,74%	8,08%	8,52%
Gamboa 220/110 kV 90 MVA 2		6,75%	6,98%	7,40%	7,74%	8,08%	8,52%
Chiloé 220/110/23 kV_90 MVA	76,40%	85,38%	82,41%	81,50%	80,31%	78,11%	77,10%
Melipeuco 110/23/13,8 kV 60 MVA	33,04%	33,16%	32,84%	32,97%	32,63%	32,57%	32,70%
Melipulli 220/110 kV_60 MVA (T11)	23,79%	28,84%	30,14%	32,11%	36,98%	41,38%	43,16%
Melipulli 220/66 kV_60 MVA (T22)	64,21%	31,46%	31,34%	32,99%	34,24%	34,61%	36,46%
Nueva Valdivia 60 MVA			0,00%	32,29%	33,86%	35,38%	37,20%

Transformador	2019	2020	2021	2022	2023	2024	2025
Nuevo TR Lastarria 75			37,69%	39,77%	43,69%	46,83%	50,57%
Nuevo TR Metrenco 2x60 MVA			41,36%	44,65%	43,92%	46,62%	49,84%
Pargua 220/110 60 MVA	34,86%	38,82%	39,46%	40,86%	44,69%	42,99%	44,67%
Río Toltén 220/110/13,8 kV 60 MVA	30,74%	30,75%	30,36%	30,38%	29,96%	29,80%	29,81%
Llollehue 90 MVA T1	9,42%	20,47%	18,39%	18,91%	20,34%	21,69%	23,15%
Llollehue 90 MVA T2	9,42%	20,47%	18,39%	18,91%	20,34%	21,69%	23,15%
Temuco 220/66 kV-60 MVA T1	53,41%	57,36%	36,90%	39,28%	41,18%	43,64%	46,18%
Temuco 220/66 kV-75 MVA T2	66,18%	70,94%	46,39%	49,22%	51,51%	54,48%	57,51%
Temuco 220/66 kV-75 MVA T7	61,51%	66,05%	42,49%	45,23%	47,42%	50,26%	53,18%
Temuco 220/66 kV-75 MVA T8	64,23%	68,98%	44,37%	47,23%	49,52%	52,48%	55,53%
Llanquihue 220/66 kV 90 MVA		28,75%	30,95%	32,99%	34,91%	37,65%	39,76%
Valdivia 220/66 kV-60 MVA	60,19%	64,43%	45,34%	33,26%	35,01%	36,73%	38,80%
Valdivia 220/66 kV-60 MVA 4	57,85%	62,15%	42,84%	31,37%	33,04%	34,73%	36,75%

6.4.6.3 Líneas de Transmisión

Tabla 6.4.51. Cargabilidad de líneas de transmisión en escenario Verano Día, Zona Charrúa – Chiloé.

Transformador	2019	2020	2021	2022	2023	2024	2025
1x66 kV Alonso de Ribera - Andalien							
1x66 kV Alonso de Ribera - Chiguayante	47,49%	49,93%	52,22%	54,29%			
1x66 kV Alonso de Ribera - Colo Colo	126,65%	104,68%	106,22%	64,22%	81,82%	72,32%	76,79%
1x66 kV Alonso de Ribera - Ejército	86,37%	58,89%	58,10%	11,28%	25,92%	14,82%	15,85%
1x66 kV Alonso de Ribera - Penco	37,43%	38,37%	39,17%	39,80%	40,49%	41,41%	42,83%
1x66 kV Alonso de Ribera - Perales	0,15%	0,15%	0,15%	0,15%	0,15%	0,15%	0,15%
1x66 kV Angol - Los Sauces	16,97%	17,42%	18,44%	18,16%	19,02%	20,01%	21,07%

Transformador	2019	2020	2021	2022	2023	2024	2025
1x66 kV Angol - Picoiquén	13,17%	11,29%	9,62%	7,89%	10,66%	9,75%	6,90%
1x66 kV Arenas Blancas - Puchoco	8,49%	9,16%	9,38%	9,89%	10,26%	10,72%	11,30%
1x66 kV Arenas Blancas - Tap Polpaico	35,54%	38,31%	39,02%	41,08%	0,30%	0,30%	0,30%
1x66 kV Arranque Guindo - Tap Arranqueguindo 1			55,97%	57,34%	58,65%	59,65%	61,39%
1x66 kV Arranque Guindo - Tap Arranqueguindo 2			28,24%	28,58%	38,14%	40,19%	42,71%
1x66 kV Arranque Guindo - Tap Arranqueguindo 3			28,24%	28,58%	38,14%	40,19%	42,71%
1x66 kV Arranque Guindo - Tap Arranqueguindo 4			55,94%	57,31%	58,62%	59,62%	61,37%
1x66 kV Ejercito - Tap Cerro Chepe C2		0,05%	0,05%	0,05%	0,05%	0,05%	0,05%
1x66 kV Concepción - Ejercito C2		30,41%	28,79%	14,45%	21,45%	13,56%	14,39%
1x66 kV Carampangue - Curanilahue Norte		33,81%	34,70%	36,00%	37,24%	38,66%	40,64%
1x66 kV Tap Carampangue - Curanilahue Norte		11,72%	12,26%	12,99%	13,73%	14,57%	15,78%
1x66 kV Cerro Chepe - Tap San Pedro C1	34,05%	0,10%	0,11%	0,11%	0,11%	0,11%	0,11%
1x66 kV Cerro Chepe - Tap San Pedro C2	33,53%	0,11%	0,12%	0,12%	0,12%	0,12%	0,12%
1x154 kV Charrua - Los Angeles	102,64%	85,14%	90,85%	35,02%	36,29%	40,69%	43,94%
1x66 kV Charrúa - Cabrero	39,24%	40,93%	41,77%	42,59%	43,07%	44,00%	45,15%
1x154 kV Charrúa - Concepción	43,47%	46,96%	40,00%	39,01%	39,82%	40,69%	42,06%
1x66 kV Charrúa - Enlace	62,61%	65,33%	66,66%	67,97%	68,71%	70,19%	71,99%
1x66 kV Charrúa - Laja	29,59%	31,76%	33,37%	34,90%	4,44%	4,46%	4,44%
1x66 kV Collipulli - Angol	6,90%	7,06%	7,49%	7,39%	7,76%	8,17%	8,61%
1x66 kV Colo Colo - Ejército	5,89%	32,67%	36,88%	82,29%	70,41%	86,42%	90,71%
1x154 kV Concepción - Alonso de Ribera	74,20%	63,49%	64,50%	42,97%	37,62%	32,23%	33,96%
1x66 kV Concepción - Andalien C1	46,55%	49,18%	51,47%	53,52%	55,84%	58,15%	61,45%
1x66 kV Concepción - Andalien C2	46,55%	49,18%	51,47%	53,52%	55,84%	58,15%	61,45%
1x66 kV Concepción - Penco	41,55%	43,56%	45,34%	46,91%	48,71%	35,71%	37,76%
1x154 kV Concepción - San Vicente C1	15,51%	18,26%	9,92%	20,97%	25,40%	33,03%	34,17%
1x154 kV Concepción - San Vicente C2	18,23%	20,27%	13,52%	21,67%	25,02%	31,47%	32,43%
1x66 kV Concepción - Ejercito C1	33,99%	31,50%	29,82%	14,97%	22,21%	14,04%	14,90%

Transformador	2019	2020	2021	2022	2023	2024	2025
1x66 kV Coronel - Arenas Blancas	62,50%	67,25%	68,45%	71,97%	32,26%	33,53%	35,19%
1x66 kV Coronel - Arr. Lota (Enacar)	31,20%	36,10%	35,03%	35,01%	35,45%	36,97%	39,06%
1x66 kV Coronel - Arr. Lota (Frontel)	23,57%	19,06%	32,89%	36,32%	38,83%	40,56%	42,92%
1x154 kV Coronel - Quiñenco	51,32%	66,33%	40,47%	42,98%	41,78%	43,42%	45,61%
1x66 kV Coronel - Transformador N°6	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%
1x66 kV Curanilahue - Tres Pinos	24,93%	0,67%	0,68%	0,69%	0,69%	0,69%	0,68%
1x66 kV Curanilahue - Curanilahue Norte		33,84%	34,73%	36,03%	37,27%	38,69%	40,67%
1x66 kV Curanilahue - Tres Pinos		11,97%	12,51%	13,25%	13,99%	14,84%	16,05%
1x66 kV Dichato - Tome 66 kV C1						17,82%	18,77%
1x66 kV Dichato - Tome 66 kV C2						17,82%	18,77%
1x66 kV Ejercito - Trebol C1				35,18%	32,62%	28,07%	29,34%
1x66 kV Ejercito - Trebol C2				35,18%	32,62%	28,07%	29,34%
1x66 kV Enlace - Fibranova	54,54%	56,76%	57,79%	58,78%	59,32%	60,46%	61,89%
1x66 kV Estructura 44 - San Pedro 66 kV C1	22,66%	25,06%	24,36%	25,72%	27,04%	28,26%	29,85%
1x66 kV Estructura 44 - San Pedro 66 kV C2	22,54%	25,36%	24,65%	26,03%	27,37%	28,60%	30,21%
1x66 kV Estructura 72 - Escuadron					64,62%	67,33%	70,88%
1x154 kV Fopaco - Lagunillas	14,65%	9,05%	28,49%	22,57%	20,53%	15,76%	15,54%
1x220 kV Guindo - Lagunillas			48,79%	51,42%	49,60%	45,06%	46,48%
1x66 kV Horcones - Arauco	14,46%	14,70%					
1x66 kV Horcones - Carampangue	64,42%	27,59%	28,54%	29,84%	31,12%	32,58%	34,61%
1x66 kV Horcones - Tap Carampangue		19,40%	20,07%	21,00%	21,92%	22,96%	24,42%
1x220 kV Hualpen - Guindo			25,63%	27,89%	23,28%	17,66%	17,88%
1x154 kV Hualpen - Petroquimicas	22,98%	23,13%	22,95%	22,85%	22,68%	22,53%	22,62%
1x154 kV Hualpén - Mapal	7,49%	4,15%	21,45%	15,86%	14,03%	9,34%	8,97%
1x220 kV Hualqui - Lagunillas					21,12%	19,24%	20,62%
1x66 kV Indura Lirquén - Lirquén	32,85%	33,89%	34,81%	35,61%	36,44%	37,49%	39,00%
1x66 kV La Señoraza - Laja					11,20%	11,74%	12,32%

Transformador	2019	2020	2021	2022	2023	2024	2025
1x154 kV Lagunillas - Quiñenco	51,30%	66,30%	40,45%	42,95%	41,75%	43,39%	45,58%
1x66 kV Laja - FFCC Laja	0,38%	0,37%	0,37%	0,37%	0,38%	0,38%	0,38%
1x66 kV Latorre - Tumbes	24,68%	25,89%	26,61%	27,64%	28,55%	29,54%	30,87%
1x66 kV Loma Colorada - Estructura					74,46%	77,58%	81,66%
1x66 kV Los Angeles - Los Buenos Aires	29,25%	17,39%	15,93%	15,89%	15,33%	14,54%	13,21%
1x66 kV Los Angeles - Manso de Velasco	104,66%	115,31%	121,44%	23,87%	21,62%	21,88%	20,79%
1x66 kV Los Angeles - Pangué	8,74%	9,00%	9,19%	9,54%	9,71%	9,98%	10,28%
1x66 kV Los Angeles - Pangué 66 kV	5,29%	5,33%	5,34%	5,41%	5,40%	5,43%	5,46%
1x66 kV Los Angeles - Tap Duqueco C1	0,24%	0,24%	0,24%	0,26%	0,26%	0,26%	0,26%
1x66 kV Los Angeles - Tap Duqueco C2	0,28%	0,28%	0,28%	0,30%	0,30%	0,30%	0,30%
1x66 kV Los Buenos Aires - Negrete	31,79%	19,08%	17,50%	17,49%	16,87%	16,01%	14,56%
1x66 kV Los Peumos - Curacautín	20,30%	21,13%	22,25%	23,62%	24,63%	25,96%	27,47%
1x66 kV Los Varoes - El Avellano C1				26,04%	27,76%	28,55%	30,08%
1x66 kV Los Varoes - El Avellano C2				26,04%	27,76%	28,55%	30,08%
1x66 kV Lota (Enacar) - Arr. Colcura	11,22%	14,49%	13,15%	12,05%	11,70%	12,35%	13,31%
4x66 kV Manso de Velasco - El Avellano	48,90%	58,24%	61,40%	63,61%	69,85%	70,98%	75,12%
1x154 kV Mapal - Fopaco	10,11%	5,48%	24,04%	18,33%	16,42%	11,67%	11,36%
1x220 kV Mulchen - Pícoltue	2,58%	2,58%	2,57%	2,57%	2,56%	2,56%	2,56%
1x66 kV Negrete - Renaico	23,67%	49,97%	47,62%	42,54%	40,22%	37,53%	34,55%
1x66 kV Paños Bellavista - Tomé	58,58%	61,41%	63,91%	66,12%	68,65%	50,27%	53,12%
1x66 kV Penco - Indura Lirquén	36,83%	37,62%	38,25%	38,72%	39,25%	40,00%	41,24%
1x66 kV Penco - Paños Bellavista	58,57%	61,40%	63,90%	66,12%	68,64%	50,27%	53,12%
1x154 kV Petroquímicas - Hualpen	43,68%	40,59%	45,24%	35,95%	33,41%	29,31%	29,72%
1x66 kV Pillanlelbún - Lautaro	22,70%	23,96%	26,37%	28,44%	31,13%	33,19%	34,97%
1x66 kV Renaico - Nahuelbuta	21,84%	46,19%	44,02%	39,34%	37,19%	34,71%	31,95%
1x66 kV Nahuelbuta - Angol	12,52%	13,91%	15,40%	15,08%	17,20%	19,27%	21,37%
1x154 kV San Vicente - Hualpen	34,52%	31,18%	36,07%	26,36%	23,77%	19,55%	19,96%

Transformador	2019	2020	2021	2022	2023	2024	2025
1x66 kV Seccionadora Lota - Lota	20,82%	22,02%	22,61%	23,53%	24,33%	25,22%	26,40%
1x66 kV TAP LOTA ENACAR - Tap Lota	30,00%	35,08%	33,73%	33,39%	33,62%	35,06%	37,06%
1x66 kV Talcahuano - Latorre 66 kV C1	52,28%	55,08%	56,81%	59,23%	61,39%	63,74%	66,86%
1x66 kV Talcahuano - Latorre 66 kV C2	0,08%	0,08%	0,08%	0,08%	0,08%	0,08%	0,08%
1x66 kV Talcahuano - Perales	43,15%	45,55%	37,05%	38,64%	40,06%	41,61%	43,71%
1x66 kV Tap Carampangue - Carampangue		7,94%	8,08%	8,30%	8,48%	8,70%	8,97%
1x66 kV Ejercito - Tap Cerro Chepe C1	34,01%	0,04%	0,04%	0,04%	0,04%	0,04%	0,04%
1x66 kV Tap Enacar - Enacar	6,04%	6,45%	6,70%	7,04%	7,35%	7,69%	8,12%
1x66 kV Tap Loma Colorada - Coronel C1	51,58%	87,60%	7,06%	7,98%	26,63%	27,40%	28,32%
1x66 kV Tap Loma Colorada - Coronel C2	51,58%	87,60%	7,06%	7,98%	26,63%	27,40%	28,32%
1x66 kV Tap Loma Colorada - Loma Colorada	59,33%	65,90%	64,19%	67,78%	45,11%	47,05%	49,57%
1x66 kV Tap Lota (Frontel) - Horcones	34,56%	28,03%	47,79%	34,30%	36,67%	38,29%	40,51%
1x66 kV Tap Polpaico - Escuadrón	35,26%	38,02%	38,74%	40,80%	0,03%	0,03%	0,03%
1x66 kV Tap San Pedro - Arranque Guindo C1			56,00%	57,38%	58,68%	59,69%	61,43%
1x66 kV Tap San Pedro - Arranque Guindo C2			55,97%	57,35%	58,66%	59,66%	61,40%
1x66 kV Tap-off Colcura - Horcones	23,50%	30,10%	27,45%	12,19%	11,84%	12,50%	13,47%
1x66 kV Temuco - Pillanlelún	43,13%	45,28%	48,69%	51,88%	55,56%	58,81%	61,78%
1x66 kV Tomé - Mahns	27,63%	28,98%	30,18%	31,24%	32,46%	31,96%	33,52%
1x66 kV Transformador N°6 - Manco	31,16%	36,07%	34,98%	34,98%	35,41%	36,93%	39,02%
1x66 kV Tres Pinos - Cañete	23,22%	22,48%	23,39%	24,57%	25,74%	27,05%	28,82%
1x66 kV Victoria - Collipulli	1,41%	1,40%	1,41%	1,40%	1,41%	1,41%	1,40%
1x66 kV Victoria - Los Peumo	34,21%	36,32%	38,29%	40,73%	42,40%	44,77%	47,44%
1x66 kV Victoria - Tap Lautaro							
1x66 kV Victoria - Traiguén	25,53%	27,09%	28,55%	30,36%	31,68%	33,45%	35,46%
1x66 kV arranque guindos - Tap Loma Colorada C1			28,25%	28,59%	38,15%	40,20%	42,72%
1x66 kV arranque guindos - Tap Loma Colorada C2			28,25%	28,59%	38,15%	40,20%	42,72%
1x110 kV AIHUAPI - LOS NEGROS	9,45%	9,93%	10,45%	10,91%	11,46%	12,02%	12,66%

Transformador	2019	2020	2021	2022	2023	2024	2025
1x110 kV Ancud - Chiloé	28,27%	29,03%	29,90%	30,77%	31,74%	32,68%	33,78%
1x110 kV Antillanca - Aihuapi	13,16%	13,82%	14,54%	15,17%	15,94%	16,70%	17,58%
1x66 kV Barro Blanco - Río Negro C1	57,15%	60,50%	51,28%	47,54%	50,30%	50,78%	53,17%
1x66 kV Barro Blanco - Río Negro C2	47,14%	49,75%	40,74%	36,09%	38,23%	38,15%	39,82%
1x66 kV Barro Blanco - Pichil	16,39%	17,20%	17,88%	18,60%	19,50%	20,41%	21,48%
1x110 kV Castro - Chonchi	46,64%	44,70%	47,14%	48,88%	51,45%	13,31%	13,98%
1x110 kV Chiloé - Dalcahue	112,41%	42,74%	44,91%	46,38%	48,68%	50,50%	53,04%
1x110 kV Chiloé - Degañ	74,90%	76,88%	80,88%	83,71%	87,93%	91,36%	95,98%
1x110 kV Chiloé - Gamboa C1		13,56%	14,10%	14,55%	15,14%	15,63%	16,27%
1x110 kV Chiloé - Gamboa C2		13,56%	14,10%	14,55%	15,14%	15,63%	16,27%
1x110 kV Chiloé - San Pedro	0,65%	0,67%	0,66%	0,67%	0,67%	0,68%	0,67%
1x66 kV Chivilcán - Las Encinas	45,86%	48,56%	16,11%	17,04%	17,77%	18,74%	19,84%
1x110 kV Chonchi - Quellon	23,98%	23,05%	24,40%	25,39%	26,82%	27,62%	29,14%
1x110 kV Colaco - Pargua		27,78%	32,00%	33,22%	37,09%	42,48%	44,41%
1x110 kV Dalcahue - Pid Pid	92,06%	23,28%	24,52%	25,38%	26,69%	27,75%	29,20%
1x110 kV El Empalme - Calbuco	18,61%	18,56%	19,53%	20,28%	21,32%	22,20%	23,32%
1x110 kV El Empalme - Ilque					27,88%	28,72%	29,87%
1x110 kV Empalme - Colaco	23,84%	17,15%	20,81%	21,74%	25,08%	29,99%	31,40%
1x66 kV Frutillar - Purranque 66 kV C1	6,16%	2,75%	12,86%	15,20%	15,80%	18,34%	19,77%
1x66 kV Frutillar - Purranque 66 kV C2	4,60%	2,90%	9,65%	11,09%	11,50%	13,23%	14,20%
1x66 kV La Unión (Ilollehue) - Pichirropulli	36,20%		68,35%	63,61%	67,51%	70,85%	74,83%
1x66 kV La Unión - Pichirropulli (Ilollehue)		38,17%	40,50%	42,37%	44,46%	46,67%	49,24%
1x66 kV Las Encinas - Padre Las Casas	17,45%	18,48%	47,35%	50,08%	52,20%	55,05%	58,26%
1x66 kV Lastarria - Loncoche 66 kV C1			22,30%	22,53%	21,37%	24,17%	27,36%
1x66 kV Lastarria - Loncoche 66 kV C2			22,30%	22,53%	21,37%	24,17%	27,36%
1x66 kV Licanco - Metrenco C1	26,64%	29,84%	54,88%	57,96%	38,09%	40,06%	42,29%
1x66 kV Licanco - Metrenco C2			51,17%	54,03%	37,04%	38,97%	41,14%

Transformador	2019	2020	2021	2022	2023	2024	2025
1x66 kV Pitrufquén - Metrenco C2			19,90%	19,77%	15,27%	17,02%	18,99%
1x66 kV Licanco - Nueva Imperial	90,24%	95,39%	104,19%	110,20%	14,20%	14,89%	15,67%
1x66 kV Llollehue - La Unión C1			17,00%	15,85%	16,83%	17,66%	18,65%
1x66 kV Llollehue - La Unión C2			17,00%	15,85%	16,83%	17,66%	18,65%
1x66 kV Loncoche - Pullinque C1	26,59%	37,39%	29,86%	30,93%	31,81%	32,07%	32,45%
1x66 kV Loncoche - Pullinque C2	26,59%	37,39%	29,86%	30,93%	31,81%	32,07%	32,45%
1x66 kV Loncoche - Villarrica C1	41,89%	43,81%	46,21%	49,09%	51,72%	55,10%	59,21%
1x66 kV Loncoche - Villarrica C2	11,64%	12,14%	12,74%	13,44%	14,08%	14,87%	15,79%
1x220 kV Los Ciruelos - Mariquina	2,04%	2,15%	2,27%	2,37%	2,47%	2,60%	2,73%
1x110 kV Melipulli - Alto Bonito	89,34%	49,03%	54,81%	56,71%	62,10%	60,20%	62,91%
1x110 kV Alto Bonito - Molinos	55,29%	15,56%	19,47%	20,06%	23,49%	19,81%	20,43%
1x66 kV Melipulli - Sangra C1		118,10%	51,14%	49,13%	51,26%	56,20%	59,44%
1x66 kV Puerto Varas - Sangra C1		70,08%	3,43%	2,73%	3,30%	1,97%	1,42%
1x66 kV Melipulli - Sangra C2		118,10%	51,14%	49,13%	51,26%	56,20%	59,44%
1x66 kV Puerto Varas - Sangra C2		70,08%	3,43%	2,73%	3,30%	1,97%	1,42%
1x66 kV Metrenco - Nueva Imperial C1					13,09%	13,76%	14,51%
1x66 kV Metrenco - Nueva Imperial C2					13,09%	13,76%	14,51%
1x110 kV Molino - Empalme	55,29%	15,41%	19,32%	19,92%	23,35%	19,67%	20,29%
1x110 kV Nueva Línea Gamboa - Chonchi						12,17%	12,80%
1x110 kV Nueva Valdivia - Picarte				19,61%	21,85%	22,54%	23,42%
1x66 kV Remehue - La Unión			35,98%	21,53%	23,09%	25,21%	27,95%
1x66 kV Remehue - Osorno C1			9,37%	2,79%	2,59%	3,50%	5,95%
1x66 kV Pilauco - La Unión C1	44,30%	61,51%	80,26%	67,47%	72,89%	77,34%	82,68%
1x66 kV Pilauco - Remehue C1			16,12%	19,30%	19,77%	21,06%	22,18%
1x66 kV Remehue - Los Tambores			32,87%	20,06%	20,21%	22,19%	24,85%
1x66 kV Padre Las Casas - Licanco C1	69,25%	75,98%	4,28%	4,45%	23,49%	24,72%	26,13%
1x66 kV Padre Las Casas - Licanco C2	58,91%	31,95%	51,17%	54,04%	37,05%	38,97%	41,14%

Transformador	2019	2020	2021	2022	2023	2024	2025
1x66 kV Paillaco - Los Lagos	92,50%	45,29%	11,83%	10,58%	2,77%	6,40%	10,21%
1x66 kV Pichirropulli - Paillaco	69,80%	61,98%	15,13%	23,51%	28,97%	34,20%	39,38%
1x110 kV Pid Pid - Castro(Gamboa)	68,81%	0,62%	0,62%	0,63%	0,62%	0,63%	0,63%
1x110 kV Gamboa - Castro		66,02%	69,62%	72,20%	76,00%	37,95%	39,95%
1x66 kV Pilauco - Barro Blanco	82,76%	87,31%	82,20%	81,87%	86,02%	88,62%	92,95%
1x66 kV L1 Pilauco - Osorno C1	62,14%	71,84%	28,80%	34,93%	37,44%	40,95%	43,53%
1x66 kV L1 Pilauco - Osorno C2	62,14%	71,84%	28,80%	34,93%	37,44%	40,95%	43,53%
1x66 kV Remehue - Osorno C2			4,60%	1,49%	1,36%	1,75%	2,93%
1x66 kV Pilauco - Remehue C2			36,59%	43,92%	45,02%	47,97%	50,52%
1x66 kV Pitrufulquén - Tap Gorbea	22,07%	15,68%	10,20%	10,29%	7,26%	7,34%	7,27%
1x66 kV Pto. Varas - Llanquihue C1	7,92%	8,05%	39,60%	43,70%	46,27%	46,64%	49,06%
1x66 kV Llanquihue - Frutillar C1			12,43%	14,82%	15,48%	17,19%	18,36%
1x66 kV Pto. Varas - Llanquihue C2			39,60%	43,70%	46,27%	46,64%	49,06%
1x66 kV Llanquihue - Frutillar C2			12,43%	14,82%	15,48%	17,19%	18,36%
1x220 kV Puerto Montt - Melipulli C1	25,67%	21,76%	20,14%	20,77%	22,11%	17,37%	18,18%
1x220 kV Puerto Montt - Melipulli C2	25,66%	21,76%	20,14%	20,77%	22,11%	17,37%	18,18%
1x66 kV Pullinque - Los Lagos	45,80%	24,25%	36,30%	31,94%	27,48%	25,69%	24,17%
1x66 kV Pullinque - Tap Panguipulli	80,71%	61,14%	76,09%	74,72%	72,75%	73,78%	75,40%
1x66 kV Pumahué - Chivilcán	172,02%	182,13%	62,02%	65,46%	68,14%	71,71%	75,66%
1x66 kV Remehue - La Misión C1			7,00%	7,29%	7,65%	8,01%	8,43%
1x66 kV Remehue - La Misión C2			7,00%	7,29%	7,65%	8,01%	8,43%
1x 66 kV Río Negro - Purranque C1	47,17%	49,95%	40,47%	36,15%	38,30%	38,20%	39,88%
1x 66 kV Río Negro - Purranque C2	28,72%	29,79%	21,56%	15,34%	16,32%	15,39%	15,76%
1x66 kV Tap Gorbea - Lastarria C1			12,08%	13,15%	14,65%	14,69%	14,58%
1x66 kV Tap Gorbea - Lastarria C2			15,09%	16,50%	18,94%	19,14%	19,21%
1x66 kV Metrenco - Pitrufulquén	26,59%	29,85%	19,05%	18,93%	14,63%	16,30%	18,18%
1x66 kV Pitrufulquén - Tap Gorbea	26,44%	7,28%	12,53%	13,57%	14,90%	14,96%	14,87%

Transformador	2019	2020	2021	2022	2023	2024	2025
1x66 kV Tap Panguipulli - Los Lagos	28,67%	14,39%	20,42%	16,54%	13,03%	11,10%	9,29%
1x66 kV Temuco - Padre las Casas	58,91%	53,94%	66,08%	69,89%	72,85%	76,83%	81,32%
1x66 kV Temuco - Padre las Casas	69,25%	53,94%	66,08%	69,89%	72,85%	76,83%	81,32%
1x66 kV Temuco - Pumahue C1	25,45%	26,95%	28,15%	29,78%	30,34%	31,94%	33,71%
1x66 kV Temuco - Pumahue C2	218,64%	231,48%	78,82%	83,19%	86,60%	91,13%	96,16%
1x66 kV Tres Bocas - Corral	20,11%	20,99%	21,71%	22,68%	23,59%	24,63%	25,83%
1x66 kV Tres Bocas - Picarte	25,12%	25,99%	26,65%	27,60%	28,49%	29,52%	30,74%
1x66 kV Valdivia - Los Lagos	65,05%	13,48%	19,16%	21,15%	26,08%	29,50%	33,42%
1x66 kV Valdivia - Picarte C2	97,75%	102,62%	62,13%	46,22%	46,72%	48,02%	49,57%
1x66 kV Valdivia - Picarte C1	105,35%	110,60%	66,96%	49,81%	50,36%	51,76%	53,42%
1x66 kV Villarrica - Pucon	28,65%	29,96%	31,60%	33,56%	35,35%	37,66%	40,46%

Tabla 6.4.52. Cargabilidad de líneas de transmisión en escenario Verano Noche, Zona Charrúa – Chiloé.

Transformador	2019	2020	2021	2022	2023	2024	2025
1x66 kV Alonso de Ribera - Andalien							
1x66 kV Alonso de Ribera - Chiguayante	43,76%	46,33%	48,64%	50,88%			
1x66 kV Alonso de Ribera - Colo Colo	66,70%	59,00%	59,92%	31,65%	46,88%	38,30%	40,59%
1x66 kV Alonso de Ribera - Ejército	48,28%	38,22%	37,98%	7,07%	21,07%	11,28%	12,14%
1x66 kV Alonso de Ribera - Penco	27,94%	28,56%	28,96%	29,29%	29,55%	29,95%	30,62%
1x66 kV Alonso de Ribera - Perales	0,15%	0,15%	0,15%	0,15%	0,16%	0,16%	0,16%
1x66 kV Angol - Los Sauces	12,67%	13,15%	13,82%	14,25%	14,91%	15,67%	16,48%
1x66 kV Angol - Picoquén	7,23%	5,75%	4,93%	13,29%	14,60%	14,42%	12,84%
1x66 kV Arenas Blancas - Puchoco	17,14%	18,36%	19,04%	20,10%	20,89%	21,88%	23,04%
1x66 kV Arenas Blancas - Tap Polpaico	42,04%	44,51%	45,59%	47,62%	8,19%	8,16%	8,19%
1x66 kV Arranque Guindo - Tap Arranqueguindo 1			21,92%	23,04%	24,16%	25,19%	26,45%
1x66 kV Arranque Guindo - Tap Arranqueguindo 2			37,13%	37,76%	47,03%	49,24%	51,57%
1x66 kV Arranque Guindo - Tap Arranqueguindo 3			37,13%	37,76%	47,03%	49,24%	51,57%

Transformador	2019	2020	2021	2022	2023	2024	2025
1x66 kV Arranque Guindo - Tap Arranqueguindo 4			21,93%	23,05%	24,17%	25,20%	26,46%
1x66 kV Ejercito - Tap Cerro Chepe C2		0,04%	0,05%	0,05%	0,05%	0,05%	0,05%
1x66 kV Concepción - Ejercito C2		12,76%	11,32%	15,40%	23,20%	1,27%	1,55%
1x66 kV Carampangue - Curanilahue Norte		23,26%	23,68%	24,68%	25,55%	26,57%	27,82%
1x66 kV Tap Carampangue - Curanilahue Norte		8,09%	8,35%	8,85%	9,32%	9,87%	10,56%
1x66 kV Cerro Chepe - Tap San Pedro C1	15,46%	0,10%	0,10%	0,10%	0,10%	0,10%	0,10%
1x66 kV Cerro Chepe - Tap San Pedro C2	15,22%	0,11%	0,11%	0,11%	0,11%	0,11%	0,11%
1x154 kV Charrua - Los Angeles	44,14%	32,07%	33,76%	16,80%	16,10%	18,22%	19,73%
1x66 kV Charrúa - Cabrero	40,12%	41,84%	42,74%	43,72%	44,33%	45,26%	46,40%
1x154 kV Charrúa - Concepción	18,39%	22,06%	11,90%	11,02%	11,95%	15,74%	16,77%
1x66 kV Charrúa - Enlace	44,69%	46,75%	47,86%	49,11%	49,88%	51,04%	52,43%
1x66 kV Charrúa - Laja	15,39%	16,48%	17,31%	18,14%	2,11%	2,12%	2,12%
1x66 kV Collipulli - Angol	5,34%	5,53%	5,82%	6,01%	6,31%	6,63%	6,99%
1x66 kV Colo Colo - Ejército	4,76%	7,05%	8,97%	40,22%	27,36%	39,51%	41,05%
1x154 kV Concepción - Alonso de Ribera	47,69%	44,23%	45,11%	30,87%	25,55%	20,97%	21,93%
1x66 kV Concepción - Andalien C1	36,78%	38,65%	40,60%	42,48%	44,39%	46,32%	48,84%
1x66 kV Concepción - Andalien C2	36,78%	38,65%	40,60%	42,48%	44,39%	46,32%	48,84%
1x66 kV Concepción - Penco	39,28%	41,12%	42,97%	44,75%	46,53%	22,60%	23,20%
1x154 kV Concepción - San Vicente C1	6,76%	5,16%	21,78%	12,53%	10,08%	8,45%	9,20%
1x154 kV Concepción - San Vicente C2	5,63%	4,08%	15,61%	6,78%	4,04%	7,24%	8,17%
1x66 kV Concepción - Ejercito C1	15,36%	13,21%	11,72%	15,95%	24,03%	1,31%	1,60%
1x66 kV Coronel - Arenas Blancas	74,38%	78,97%	81,15%	85,01%	47,00%	48,65%	50,68%
1x66 kV Coronel - Arr. Lota (Enacar)	32,68%	35,47%	26,62%	26,98%	27,12%	28,30%	29,83%
1x66 kV Coronel - Arr. Lota (Frontel)	20,63%	19,64%	16,47%	18,64%	20,48%	21,52%	22,74%
1x154 kV Coronel - Quilenco	52,17%	57,62%	36,10%	38,35%	36,86%	38,41%	40,40%
1x66 kV Coronel - Transformador N°6	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%
1x66 kV Curanilahue - Tres Pinos	15,72%	0,64%	0,65%	0,65%	0,65%	0,66%	0,65%

Transformador	2019	2020	2021	2022	2023	2024	2025
1x66 kV Curanilahue - Curanilahue Norte		23,30%	23,71%	24,71%	25,58%	26,60%	27,86%
1x66 kV Curanilahue - Tres Pinos		8,23%	8,50%	9,01%	9,49%	10,05%	10,75%
1x66 kV Dichato - Tome 66 kV C1						15,67%	16,40%
1x66 kV Dichato - Tome 66 kV C2						15,67%	16,40%
1x66 kV Ejercito - Trebol C1				27,21%	24,26%	20,66%	21,61%
1x66 kV Ejercito - Trebol C2				27,21%	24,26%	20,66%	21,61%
1x66 kV Enlace - Fibranova	51,65%	53,77%	54,82%	55,98%	56,66%	57,74%	59,08%
1x66 kV Estructura 44 - San Pedro 66 kV C1	18,30%	19,78%	19,83%	20,94%	22,05%	23,09%	24,34%
1x66 kV Estructura 44 - San Pedro 66 kV C2	18,48%	20,04%	20,09%	21,22%	22,34%	23,39%	24,66%
1x66 kV Estructura 72 - Escuadron					60,66%	63,34%	66,57%
1x154 kV Fopaco - Lagunillas	32,03%	30,97%	48,40%	44,33%	42,30%	35,04%	34,86%
1x220 kV Guindo - Lagunillas			64,81%	66,59%	65,15%	56,95%	57,72%
1x66 kV Horcones - Arauco	16,57%	16,79%					
1x66 kV Horcones - Carampangue	25,49%	12,00%	12,28%	13,01%	13,67%	14,47%	15,50%
1x66 kV Horcones - Tap Carampangue		7,50%	7,68%	8,17%	8,62%	9,16%	9,88%
1x220 kV Hualpen - Guindo			51,12%	52,56%	49,03%	40,00%	39,92%
1x154 kV Hualpen - Petroquimicas	26,55%	26,70%	26,60%	26,52%	26,37%	26,23%	26,30%
1x154 kV Hualpén - Mapal	25,15%	24,09%	41,59%	37,60%	35,64%	28,43%	28,18%
1x220 kV Hualqui - Lagunillas					24,16%	35,67%	34,57%
1x66 kV Indura Lirquén - Lirquén	21,21%	22,04%	22,72%	23,38%	23,96%	24,67%	25,60%
1x66 kV La Señoraza - Laja					9,86%	10,33%	10,83%
1x154 kV Lagunillas - Quiñenco	47,45%	51,17%	30,85%	32,82%	32,01%	33,41%	35,16%
1x66 kV Laja - FFCC Laja	0,18%	0,18%	0,18%	0,18%	0,18%	0,18%	0,18%
1x66 kV Latorre - Tumbes	18,44%	19,34%	19,97%	20,80%	21,51%	22,29%	23,27%
1x66 kV Loma Colorada - Estructura					69,63%	72,70%	76,41%
1x66 kV Los Angeles - Los Buenos Aires	12,65%	25,78%	24,37%	24,64%	23,74%	22,61%	21,11%
1x66 kV Los Angeles - Manso de Velasco	70,98%	76,41%	79,71%	34,08%	29,03%	30,01%	29,50%

Transformador	2019	2020	2021	2022	2023	2024	2025
1x66 kV Los Angeles - Pangué	1,59%	1,64%	1,64%	1,69%	1,65%	1,67%	1,69%
1x66 kV Los Angeles - Pangué 66 kV	3,06%	3,11%	3,11%	3,16%	3,13%	3,15%	3,17%
1x66 kV Los Angeles - Tap Duqueco C1	0,16%	0,16%	0,16%	0,16%	0,17%	0,17%	0,17%
1x66 kV Los Angeles - Tap Duqueco C2	0,24%	0,24%	0,24%	0,25%	0,25%	0,25%	0,25%
1x66 kV Los Buenos Aires - Negrete	14,66%	27,22%	25,70%	26,17%	25,23%	24,04%	22,43%
1x66 kV Los Peumos - Curacautín	15,09%	15,81%	16,67%	17,53%	18,13%	19,10%	20,21%
1x66 kV Los Varoes - El Avellano C1				17,49%	19,87%	20,36%	21,46%
1x66 kV Los Varoes - El Avellano C2				17,49%	19,87%	20,36%	21,46%
1x66 kV Lota (Enacar) - Arr. Colcura	8,39%	9,84%	2,22%	1,53%	1,82%	2,05%	2,48%
4x66 kV Manso de Velasco - El Avellano	29,61%	32,93%	34,13%	32,59%	39,51%	39,89%	42,18%
1x154 kV Mapal - Fopaco	26,78%	25,73%	43,21%	39,21%	37,24%	30,02%	29,78%
1x220 kV Mulchen - Pícoltue	2,58%	2,58%	2,58%	2,57%	2,56%	2,55%	2,56%
1x66 kV Negrete - Renaico	9,60%	55,30%	53,41%	51,57%	49,96%	48,10%	45,97%
1x66 kV Paños Bellavista - Tomé	34,62%	36,36%	38,01%	39,61%	41,21%	52,63%	54,69%
1x66 kV Penco - Indura Lirquén	32,02%	32,72%	33,19%	33,56%	33,86%	34,32%	35,08%
1x66 kV Penco - Paños Bellavista	34,61%	36,35%	38,00%	39,60%	41,20%	52,63%	54,68%
1x154 kV Petroquímicas - Hualpen	52,68%	52,76%	61,64%	55,63%	53,16%	46,75%	47,05%
1x66 kV Pillanlelbún - Lautaro	20,33%	19,30%	21,77%	24,46%	29,29%	30,16%	29,88%
1x66 kV Renaico - Nahuelbuta	8,98%	52,54%	50,75%	49,02%	47,49%	45,72%	43,70%
1x66 kV Nahuelbuta - Angol	6,73%	2,77%	3,73%	9,59%	11,74%	12,83%	13,15%
1x154 kV San Vicente - Hualpen	43,74%	43,76%	53,21%	46,98%	44,49%	37,76%	38,01%
1x66 KV Seccionadora Lota - Lota	40,32%	42,53%	43,63%	45,52%	47,16%	49,00%	51,22%
1x66 kV TAP LOTA ENACAR - Tap Lota	31,07%	33,84%	23,99%	24,07%	23,96%	25,00%	26,37%
1x66 kV Talcahuano - Latorre 66 kV C1	54,51%	57,48%	59,66%	62,42%	64,88%	67,54%	70,85%
1x66 kV Talcahuano - Latorre 66 kV C2	0,07%	0,07%	0,07%	0,07%	0,07%	0,07%	0,07%
1x66 kV Talcahuano - Perales	35,34%	37,24%	30,58%	31,95%	33,16%	34,47%	36,13%
1x66 kV Tap Carampangue - Carampangue		12,88%	13,18%	13,73%	14,22%	14,78%	15,42%

Transformador	2019	2020	2021	2022	2023	2024	2025
1x66 kV Ejercito - Tap Cerro Chepe C1	15,40%	0,04%	0,04%	0,04%	0,04%	0,04%	0,04%
1x66 kV Tap Enacar - Enacar	9,03%	9,62%	9,99%	10,52%	11,00%	11,53%	12,16%
1x66 kV Tap Loma Colorada - Coronel C1	36,51%	43,54%	15,70%	15,09%	7,11%	7,75%	8,28%
1x66 kV Tap Loma Colorada - Coronel C2	36,51%	43,54%	15,70%	15,09%	7,11%	7,75%	8,28%
1x66 kV Tap Loma Colorada - Loma Colorada	47,10%	51,07%	51,27%	54,14%	44,55%	46,55%	48,97%
1x66 kV Tap Lota (Frontel) - Horcones	30,18%	28,72%	24,14%	18,01%	19,77%	20,77%	21,94%
1x66 kV Tap Polpaico - Escuadrón	33,72%	36,05%	37,26%	39,27%	0,02%	0,02%	0,02%
1x66 kV Tap San Pedro - Arranque Guindo C1			21,97%	23,08%	24,20%	25,24%	26,50%
1x66 kV Tap San Pedro - Arranque Guindo C2			21,98%	23,09%	24,21%	25,25%	26,51%
1x66 kV Tap-off Colcura - Horcones	17,46%	20,47%	5,45%	1,85%	2,06%	2,32%	2,77%
1x66 kV Temuco - Pillanlelún	32,90%	33,36%	36,17%	39,28%	43,77%	45,69%	46,84%
1x66 kV Tomé - Mahns	20,13%	21,08%	22,04%	22,96%	23,88%	23,81%	24,93%
1x66 kV Transformador N°6 - Manco	32,65%	35,44%	26,58%	26,95%	27,08%	28,27%	29,80%
1x66 kV Tres Pinos - Cañete	25,92%	26,83%	27,66%	29,16%	30,56%	32,13%	34,03%
1x66 kV Victoria - Collipulli	1,17%	1,16%	1,16%	1,17%	1,19%	1,19%	1,18%
1x66 kV Victoria - Los Peumo	27,67%	29,44%	31,02%	32,60%	33,64%	35,42%	37,46%
1x66 kV Victoria - Tap Lautaro							
1x66 kV Victoria - Traiguén	20,20%	21,52%	22,70%	23,87%	24,70%	26,03%	27,57%
1x66 kV arranque guindos - Tap Loma Colorada C1			37,13%	37,77%	47,04%	49,25%	51,58%
1x66 kV arranque guindos - Tap Loma Colorada C2			37,13%	37,77%	47,04%	49,25%	51,58%
1x110 kV AIHUAPI - LOS NEGROS	5,14%	5,43%	5,70%	5,89%	6,15%	6,44%	6,79%
1x110 kV Ancud - Chiloé	20,98%	21,55%	22,31%	22,99%	23,80%	24,47%	25,42%
1x110 kV Antillanca - Aihuapi	6,92%	7,31%	7,66%	7,92%	8,27%	8,65%	9,12%
1x66 kV Barro Blanco - Río Negro C1	38,86%	47,59%	39,49%	31,48%	33,50%	33,52%	35,06%
1x66 kV Barro Blanco - Río Negro C2	32,52%	40,86%	33,16%	24,20%	25,84%	25,51%	26,57%
1x66 kV Barro Blanco - Pichil	14,69%	15,43%	16,10%	16,58%	17,28%	18,08%	19,05%
1x110 kV Castro - Chonchi	39,16%	38,17%	40,11%	41,40%	43,29%	11,09%	11,63%

Transformador	2019	2020	2021	2022	2023	2024	2025
1x110 kV Chiloé - Dalcahue	84,68%	28,93%	30,37%	31,32%	32,72%	33,58%	35,28%
1x110 kV Chiloé - Degañ	7,11%	7,29%	7,67%	7,93%	8,30%	8,54%	8,98%
1x110 kV Chiloé - Gamboa C1		10,75%	11,18%	11,52%	11,95%	12,23%	12,73%
1x110 kV Chiloé - Gamboa C2		10,75%	11,18%	11,52%	11,95%	12,23%	12,73%
1x110 kV Chiloé - San Pedro	3,34%	3,27%	3,28%	3,22%	3,22%	3,16%	3,18%
1x66 kV Chivilcán - Las Encinas	49,91%	53,08%	14,21%	14,89%	15,39%	16,23%	17,21%
1x110 kV Chonchi - Quellon	45,06%	43,86%	46,13%	47,62%	49,83%	50,36%	52,93%
1x110 kV Colaco - Pargua		16,84%	19,75%	20,35%	23,00%	29,32%	30,63%
1x110 kV Dalcahue - Pid Pid	70,65%	15,66%	16,49%	17,04%	17,85%	18,36%	19,33%
1x110 kV El Empalme - Calbuco	14,56%	14,72%	15,45%	15,98%	16,72%	17,34%	18,22%
1x110 kV El Empalme - Ilque					21,99%	22,55%	23,46%
1x110 kV Empalme - Colaco	17,39%	9,12%	11,51%	11,95%	14,22%	20,18%	21,11%
1x66 kV Frutillar - Purranque 66 kV C1	8,61%	13,58%	15,71%	11,49%	11,27%	13,44%	14,62%
1x66 kV Frutillar - Purranque 66 kV C2	6,08%	9,49%	11,43%	8,49%	8,34%	9,81%	10,61%
1x66 kV La Unión (Llollehue) - Pichirropulli	29,05%		48,43%	42,09%	44,69%	46,83%	49,44%
1x66 kV La Unión - Pichirropulli (Llollehue)		31,39%	33,23%	34,34%	35,72%	37,48%	39,62%
1x66 kV Las Encinas - Padre Las Casas	19,14%	20,37%	48,04%	50,31%	51,98%	54,79%	58,02%
1x66 kV Lastarria - Loncoche 66 kV C1			27,66%	25,94%	22,55%	24,98%	27,86%
1x66 kV Lastarria - Loncoche 66 kV C2			27,66%	25,94%	22,55%	24,98%	27,86%
1x66 kV Licanco - Metrenco C1	33,48%	42,11%	47,75%	49,87%	33,49%	35,23%	37,25%
1x66 kV Licanco - Metrenco C2			44,72%	46,70%	32,68%	34,39%	36,36%
1x66 kV Pitrufrquén - Metrenco C2			31,18%	28,17%	19,61%	21,20%	23,09%
1x66 kV Licanco - Nueva Imperial	57,91%	61,49%	67,04%	70,06%	8,18%	8,58%	9,05%
1x66 kV Llollehue - La Unión C1			15,16%	13,21%	14,04%	14,71%	15,53%
1x66 kV Llollehue - La Unión C2			15,16%	13,21%	14,04%	14,71%	15,53%
1x66 kV Loncoche - Pullinque C1	17,96%	24,34%	21,69%	22,93%	23,72%	23,97%	24,30%
1x66 kV Loncoche - Pullinque C2	17,96%	24,34%	21,69%	22,93%	23,72%	23,97%	24,30%

Transformador	2019	2020	2021	2022	2023	2024	2025
1x66 kV Loncoche - Villarrica C1	40,12%	42,01%	44,26%	46,13%	47,86%	51,05%	55,15%
1x66 kV Loncoche - Villarrica C2	8,27%	8,62%	9,03%	9,37%	9,70%	10,23%	10,87%
1x220 kV Los Ciruelos - Mariquina	2,41%	2,55%	2,69%	2,78%	2,87%	3,01%	3,17%
1x110 kV Melipulli - Alto Bonito	62,80%	37,60%	42,03%	43,35%	47,34%	43,14%	45,07%
1x110 kV Alto Bonito - Molinos	40,85%	15,48%	18,84%	19,40%	22,27%	17,09%	17,68%
1x66 kV Melipulli - Sangra C1		97,24%	41,65%	40,63%	41,74%	47,48%	50,30%
1x66 kV Puerto Varas - Sangra C1		56,65%	6,92%	2,79%	3,60%	2,57%	2,06%
1x66 kV Melipulli - Sangra C2		97,24%	41,65%	40,63%	41,74%	47,48%	50,30%
1x66 kV Puerto Varas - Sangra C2		56,65%	6,92%	2,79%	3,60%	2,57%	2,06%
1x66 kV Metrenco - Nueva Imperial C1					10,36%	10,89%	11,50%
1x66 kV Metrenco - Nueva Imperial C2					10,36%	10,89%	11,50%
1x110 kV Molino - Empalme	40,85%	15,37%	18,73%	19,29%	22,16%	16,98%	17,57%
1x110 kV Nueva Línea Gamboa - Chonchi						16,84%	17,69%
1x110 kV Nueva Valdivia - Picarte				16,52%	18,37%	19,26%	20,29%
1x66 kV Remehue - La Unión			33,65%	16,44%	16,25%	17,54%	19,50%
1x66 kV Remehue - Osorno C1			14,08%	5,64%	3,71%	3,93%	5,79%
1x66 kV Pillauco - La Unión C1	41,24%	44,24%	60,04%	43,65%	47,00%	49,78%	53,24%
1x66 kV Pillauco - Remehue C1			11,55%	12,62%	12,56%	13,39%	14,15%
1x66 kV Remehue - Los Tambores			32,14%	16,01%	14,24%	15,40%	17,37%
1x66 kV Padre Las Casas - Licanco C1	67,78%	78,74%	6,20%	6,46%	22,12%	23,30%	24,68%
1x66 kV Padre Las Casas - Licanco C2	64,62%	44,55%	44,72%	46,71%	32,69%	34,39%	36,37%
1x66 kV Paillaco - Los Lagos	63,46%	17,82%	22,22%	17,28%	10,30%	13,06%	15,72%
1x66 kV Pichirropulli - Paillaco	49,68%	32,44%	27,02%	25,47%	26,01%	29,59%	33,22%
1x110 kV Pid Pid - Castro(Gamboa)	55,04%	0,43%	0,43%	0,44%	0,44%	0,45%	0,44%
1x110 kV Gamboa - Castro		53,77%	56,55%	58,42%	61,14%	28,89%	30,40%
1x66 kV Pillauco - Barro Blanco	47,91%	54,16%	49,64%	46,88%	49,20%	50,51%	52,98%
1x66 kV L1 Pillauco - Osorno C1	39,33%	44,19%	15,99%	20,66%	22,41%	24,60%	26,14%

Transformador	2019	2020	2021	2022	2023	2024	2025
1x66 kV L1 Pilauco - Osorno C2	39,33%	44,19%	15,99%	20,66%	22,41%	24,60%	26,14%
1x66 kV Remehue - Osorno C2			6,39%	2,62%	1,75%	1,84%	2,67%
1x66 kV Pilauco - Remehue C2			27,43%	30,03%	29,90%	31,87%	33,70%
1x66 kV Pitrufulquén - Tap Gorbea	27,09%	27,99%	17,47%	14,90%	7,62%	8,06%	8,30%
1x66 kV Pto. Varas - Llanquihue C1	6,83%	5,27%	35,82%	37,59%	39,81%	39,02%	41,04%
1x66 kV Llanquihue - Frutillar C1			10,84%	11,98%	12,15%	13,64%	14,64%
1x66 kV Pto. Varas - Llanquihue C2			35,82%	37,59%	39,81%	39,02%	41,04%
1x66 kV Llanquihue - Frutillar C2			10,84%	11,98%	12,15%	13,64%	14,64%
1x220 kV Puerto Montt - Melipulli C1	28,77%	24,84%	23,46%	24,33%	25,78%	17,18%	17,98%
1x220 kV Puerto Montt - Melipulli C2	28,77%	24,84%	23,46%	24,33%	25,78%	17,18%	17,98%
1x66 kV Pullinque - Los Lagos	36,64%	23,74%	30,30%	24,75%	19,20%	17,98%	17,02%
1x66 kV Pullinque - Tap Panguipulli	62,80%	53,09%	59,32%	56,05%	52,70%	53,50%	54,87%
1x66 kV Pumahue - Chivilcán	135,76%	144,32%	42,22%	44,14%	45,57%	47,91%	50,55%
1x66 kV Remehue - La Misión C1			5,87%	6,05%	6,30%	6,60%	6,96%
1x66 kV Remehue - La Misión C2			5,87%	6,05%	6,30%	6,60%	6,96%
1x 66 kV Río Negro - Purranque C1	32,32%	40,68%	32,63%	24,05%	25,72%	25,39%	26,45%
1x 66 kV Río Negro - Purranque C2	20,80%	28,34%	22,05%	11,12%	11,98%	11,18%	11,47%
1x66 kV Tap Gorbea - Lastarria C1			13,56%	12,60%	11,38%	11,61%	11,59%
1x66 kV Tap Gorbea - Lastarria C2			13,93%	13,82%	14,54%	14,87%	14,96%
1x66 kV Metrengo - Pitrufulquén	33,44%	42,08%	29,83%	26,95%	18,77%	20,29%	22,10%
1x66 kV Pitrufulquén - Tap Gorbea	33,33%	20,54%	14,00%	13,06%	11,69%	11,94%	11,93%
1x66 kV Tap Panguipulli - Los Lagos	23,16%	12,72%	17,90%	13,25%	8,65%	7,30%	6,08%
1x66 kV Temuco - Padre las Casas	64,62%	61,54%	56,00%	58,65%	60,59%	63,88%	67,64%
1x66 kV Temuco - Padre las Casas	67,78%	61,54%	56,00%	58,65%	60,59%	63,88%	67,64%
1x66 kV Temuco - Pumahue C1	19,50%	20,71%	21,65%	22,67%	23,05%	24,24%	25,59%
1x66 kV Temuco - Pumahue C2	175,62%	186,70%	54,61%	57,09%	58,95%	61,97%	65,39%
1x66 kV Tres Bocas - Corral	15,76%	16,56%	17,13%	17,41%	17,92%	18,70%	19,65%

Transformador	2019	2020	2021	2022	2023	2024	2025
1x66 kV Tres Bocas - Picarte	19,23%	20,04%	20,57%	20,74%	21,21%	21,97%	22,94%
1x66 kV Valdivia - Los Lagos	30,57%	14,08%	5,33%	3,40%	8,93%	10,67%	12,74%
1x66 kV Valdivia - Picarte C2	62,90%	66,44%	40,62%	23,42%	21,99%	22,99%	24,21%
1x66 kV Valdivia - Picarte C1	70,87%	74,86%	45,76%	26,40%	24,79%	25,91%	27,29%
1x66 kV Villarrica - Pucon	26,82%	28,08%	29,59%	30,83%	31,99%	34,12%	36,86%

Tabla 6.4.53. Cargabilidad de líneas de transmisión en escenario Invierno Día, Zona Charrúa – Chiloé.

Transformador	2019	2020	2021	2022	2023	2024	2025
1x66 kV Alonso de Ribera - Andalien							
1x66 kV Alonso de Ribera - Chiguayante	49,95%	52,23%	53,98%	57,20%			
1x66 kV Alonso de Ribera - Colo Colo	127,37%	109,65%	73,20%	77,81%	97,11%	87,62%	92,64%
1x66 kV Alonso de Ribera - Ejército	85,22%	62,82%	19,91%	21,51%	40,67%	27,11%	28,74%
1x66 kV Alonso de Ribera - Penco	22,73%	23,02%	23,08%	23,73%	24,03%	24,47%	25,16%
1x66 kV Alonso de Ribera - Perales	0,15%	0,15%	0,15%	0,15%	0,15%	0,15%	0,15%
1x66 kV Angol - Los Sauces	18,29%	19,31%	20,34%	21,04%	22,04%	23,16%	24,36%
1x66 kV Angol - Picoiquén	32,64%	32,66%	32,69%	33,19%	33,42%	33,37%	33,10%
1x66 kV Arenas Blancas - Puchoco	14,38%	15,50%	15,91%	16,83%	17,49%	18,32%	19,30%
1x66 kV Arenas Blancas - Tap Polpaico	36,37%	39,19%	40,03%	42,31%	0,31%	0,30%	0,31%
1x66 kV Arranque Guindo - Tap Arranqueguindo 1			60,88%	62,50%	64,12%	65,33%	67,19%
1x66 kV Arranque Guindo - Tap Arranqueguindo 2			15,62%	16,77%	25,79%	28,29%	30,15%
1x66 kV Arranque Guindo - Tap Arranqueguindo 3			15,62%	16,77%	25,79%	28,29%	30,15%
1x66 kV Arranque Guindo - Tap Arranqueguindo 4			60,85%	62,46%	64,09%	65,30%	67,16%
1x66 kV Ejercito - Tap Cerro Chepe C2		0,04%	0,05%	0,05%	0,05%	0,05%	0,05%
1x66 kV Concepción - Ejercito C2		25,66%	11,94%	12,56%	20,03%	11,49%	11,97%
1x66 kV Carampangue - Curanilahue Norte	26,67%	28,37%	28,96%	30,40%	31,48%	32,73%	34,27%
1x66 kV Tap Carampangue - Curanilahue Norte	14,39%	15,53%	16,06%	17,08%	17,93%	18,87%	20,04%
1x66 kV Cerro Chepe - Tap San Pedro C1	27,93%	0,09%	0,10%	0,10%	0,10%	0,10%	0,10%

Transformador	2019	2020	2021	2022	2023	2024	2025
1x66 kV Cerro Chepe - Tap San Pedro C2	27,49%	0,10%	0,11%	0,11%	0,11%	0,11%	0,11%
1x154 kV Charrua - Los Angeles	13,35%	14,36%	15,54%	3,90%	4,08%	4,96%	5,75%
1x66 kV Charrúa - Cabrero	33,43%	34,27%	34,99%	35,79%	36,35%	37,14%	38,05%
1x154 kV Charrúa - Concepción	21,68%	22,63%	8,02%	11,58%	12,17%	15,25%	16,61%
1x66 kV Charrúa - Enlace	46,21%	47,41%	48,44%	49,62%	50,41%	51,55%	52,86%
1x66 kV Charrúa - Laja	11,79%	12,42%	13,04%	1,92%	1,93%	1,93%	1,93%
1x66 kV Collipulli - Angol	15,00%	15,88%	16,77%	17,39%	18,25%	19,23%	20,27%
1x66 kV Colo Colo - Ejército	10,04%	31,84%	70,53%	74,22%	61,65%	77,95%	82,13%
1x154 kV Concepción - Alonso de Ribera	70,16%	61,34%	42,82%	45,28%	39,56%	34,02%	35,75%
1x66 kV Concepción - Andalien C1	48,79%	50,94%	52,65%	55,82%	58,37%	60,95%	64,44%
1x66 kV Concepción - Andalien C2	48,79%	50,94%	52,65%	55,82%	58,37%	60,95%	64,44%
1x66 kV Concepción - Penco	45,67%	47,34%	48,63%	51,26%	53,28%	30,63%	32,15%
1x154 kV Concepción - San Vicente C1	23,74%	22,03%	29,58%	28,55%	24,27%	11,11%	10,12%
1x154 kV Concepción - San Vicente C2	20,15%	17,95%	22,99%	22,07%	18,08%	6,61%	5,76%
1x66 kV Concepción - Ejercito C1	27,83%	26,57%	12,37%	13,01%	20,74%	11,90%	12,40%
1x66 kV Coronel - Arenas Blancas	72,43%	77,90%	79,53%	83,92%	43,50%	45,37%	47,62%
1x66 kV Coronel - Arr. Lota (Enacar)	22,53%	25,37%	20,31%	21,33%	21,16%	21,95%	23,04%
1x66 kV Coronel - Arr. Lota (Frontel)	8,66%	8,68%	7,50%	8,25%	9,57%	10,39%	11,39%
1x154 kV Coronel - Quilenco	57,36%	64,64%	40,86%	42,75%	41,48%	42,90%	44,79%
1x66 kV Coronel - Transformador N°6	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%
1x66 kV Curanilahue - Tres Pinos	0,67%	0,65%	0,67%	0,66%	0,66%	0,67%	0,66%
1x66 kV Curanilahue - Curanilahue Norte	26,69%	28,40%	28,98%	30,43%	31,51%	32,75%	34,30%
1x66 kV Curanilahue - Tres Pinos	14,50%	15,65%	16,19%	17,22%	18,07%	19,02%	20,20%
1x66 kV Dichato - Tome 66 kV C1						19,96%	20,96%
1x66 kV Dichato - Tome 66 kV C2						19,96%	20,96%
1x66 kV Ejercito - Trebol C1			30,87%	32,47%	29,52%	25,11%	26,50%
1x66 kV Ejercito - Trebol C2			30,87%	32,47%	29,52%	25,11%	26,50%

Transformador	2019	2020	2021	2022	2023	2024	2025
1x66 kV Enlace - Fibranova	51,67%	52,86%	53,88%	55,02%	55,77%	56,88%	58,17%
1x66 kV Estructura 44 - San Pedro 66 kV C1	23,96%	26,47%	25,80%	27,32%	28,84%	30,21%	31,91%
1x66 kV Estructura 44 - San Pedro 66 kV C2	24,11%	26,78%	26,11%	27,64%	29,18%	30,58%	32,29%
1x66 kV Estructura 72 - Escuadron					66,49%	69,46%	73,11%
1x154 kV Fopaco - Lagunillas	54,06%	52,95%	66,42%	66,29%	64,10%	55,32%	55,33%
1x220 kV Guindo - Lagunillas			81,65%	82,50%	80,89%	70,33%	71,42%
1x66 kV Horcones - Arauco	1,82%	1,85%					
1x66 kV Horcones - Carampangue	4,31%	5,15%	5,32%	6,04%	6,57%	7,22%	8,15%
1x66 kV Horcones - Tap Carampangue	3,07%	3,74%	3,91%	4,48%	4,91%	5,43%	6,15%
1x220 kV Hualpen - Guindo			64,62%	64,66%	60,63%	48,92%	48,94%
1x154 kV Hualpen - Petroquimicas	33,86%	33,92%	33,64%	33,71%	33,54%	33,35%	33,48%
1x154 kV Hualpén - Mapal	45,60%	44,59%	58,17%	58,02%	55,89%	47,15%	47,10%
1x220 kV Hualqui - Lagunillas					36,26%	50,60%	49,36%
1x66 kV Indura Lirquén - Lirquén	21,63%	22,18%	22,50%	23,45%	24,02%	24,76%	25,73%
1x66 kV La Señoraza - Laja				7,65%	7,98%	8,37%	8,77%
1x154 kV Lagunillas - Quiñenco	2,74%	8,70%	15,21%	13,56%	14,28%	12,51%	10,94%
1x66 kV Laja - FFCC Laja	0,16%	0,16%	0,16%	0,16%	0,17%	0,17%	0,17%
1x66 kV Latorre - Tumbes	20,66%	21,57%	22,13%	23,18%	23,99%	24,87%	25,99%
1x66 kV Loma Colorada - Estructura					76,71%	80,13%	84,35%
1x66 kV Los Angeles - Los Buenos Aires	35,85%	35,30%	34,69%	33,75%	33,11%	32,41%	31,68%
1x66 kV Los Angeles - Manso de Velasco	75,59%	79,59%	83,42%	60,87%	55,78%	59,35%	60,18%
1x66 kV Los Angeles - Pangue	8,37%	8,62%	8,82%	9,16%	9,35%	9,63%	9,94%
1x66 kV Los Angeles - Pangue 66 kV	4,51%	4,53%	4,54%	4,59%	4,58%	4,61%	4,63%
1x66 kV Los Angeles - Tap Duqueco C1	0,16%	0,16%	0,16%	0,16%	0,16%	0,16%	0,16%
1x66 kV Los Angeles - Tap Duqueco C2	0,23%	0,23%	0,23%	0,24%	0,24%	0,24%	0,24%
1x66 kV Los Buenos Aires - Negrete	5,65%	4,93%	4,27%	6,13%	6,48%	6,26%	5,41%
1x66 kV Los Peumos - Curacautín	4,32%	4,59%	4,77%	5,07%	5,25%	5,53%	5,84%

Transformador	2019	2020	2021	2022	2023	2024	2025
1x66 kV Los Varoes - El Avellano C1				12,54%	14,47%	14,49%	15,30%
1x66 kV Los Varoes - El Avellano C2				12,54%	14,47%	14,49%	15,30%
1x66 kV Lota (Enacar) - Arr. Colcura	4,51%	5,72%	0,34%	0,56%	0,67%	0,93%	1,40%
4x66 kV Manso de Velasco - El Avellano	27,21%	28,46%	29,64%	22,62%	24,78%	24,10%	24,77%
1x154 kV Mapal - Fopaco	49,04%	48,01%	61,56%	61,41%	59,26%	50,51%	50,48%
1x220 kV Mulchen - Picoltue	2,58%	2,58%	2,57%	2,57%	2,56%	2,56%	2,56%
1x66 kV Negrete - Renaico	7,04%	6,19%	6,49%	14,62%	16,66%	17,67%	17,82%
1x66 kV Paños Bellavista - Tomé	40,60%	42,07%	43,24%	45,60%	47,42%	69,48%	73,07%
1x66 kV Penco - Indura Lirquén	26,89%	27,24%	27,31%	28,08%	28,43%	28,96%	29,77%
1x66 kV Penco - Paños Bellavista	40,60%	42,07%	43,24%	45,60%	47,42%	69,48%	73,08%
1x154 kV Petroquimicas - Hualpen	65,83%	65,94%	68,47%	68,73%	66,16%	58,37%	58,84%
1x66 kV Pillanlelbún - Lautaro	21,10%	16,21%	27,51%	22,45%	29,31%	26,88%	22,71%
1x66 kV Renaico - Nahuelbuta	7,11%	6,26%	6,56%	14,69%	16,72%	17,73%	17,88%
1x66 kV Nahuelbuta - Angol	8,55%	7,03%	6,29%	14,04%	15,65%	16,14%	15,66%
1x154 kV San Vicente - Hualpen	53,88%	53,99%	56,93%	57,16%	54,58%	46,41%	46,82%
1x66 KV Seccionadora Lota - Lota	27,25%	28,83%	29,57%	31,00%	32,11%	33,35%	34,85%
1x66 kV TAP LOTA ENACAR - Tap Lota	20,08%	22,95%	17,02%	17,86%	17,37%	17,96%	18,84%
1x66 kV Talcahuano - Latorre 66 kV C1	50,39%	52,87%	54,48%	57,29%	59,55%	61,96%	65,02%
1x66 kV Talcahuano - Latorre 66 kV C2	0,07%	0,07%	0,07%	0,07%	0,07%	0,07%	0,07%
1x66 kV Talcahuano - Perales	44,38%	46,59%	37,90%	39,85%	41,40%	43,07%	45,22%
1x66 kV Tap Carampangue - Carampangue	13,44%	14,25%	14,62%	15,33%	15,89%	16,52%	17,27%
1x66 kV Ejercito - Tap Cerro Chepe C1	27,87%	0,04%	0,04%	0,04%	0,04%	0,04%	0,04%
1x66 kV Tap Enacar - Enacar	9,44%	10,09%	10,48%	11,08%	11,60%	12,15%	12,81%
1x66 kV Tap Loma Colorada - Coronel C1	81,29%	92,97%	24,05%	24,11%	46,36%	47,39%	48,67%
1x66 kV Tap Loma Colorada - Coronel C2	81,29%	92,97%	24,05%	24,11%	46,36%	47,39%	48,67%
1x66 kV Tap Loma Colorada - Loma Colorada	67,27%	74,31%	72,61%	76,85%	51,69%	54,05%	56,92%
1x66 kV Tap Lota (Frontel) - Horcones	13,33%	13,25%	7,54%	8,26%	9,53%	10,31%	11,26%

Transformador	2019	2020	2021	2022	2023	2024	2025
1x66 kV Tap Polpaico - Escuadrón	36,07%	38,89%	39,74%	42,01%	0,02%	0,02%	0,02%
1x66 kV Tap San Pedro - Arranque Guindo C1			60,91%	62,53%	64,15%	65,37%	67,22%
1x66 kV Tap San Pedro - Arranque Guindo C2			60,88%	62,49%	64,12%	65,34%	67,19%
1x66 kV Tap-off Colcura - Horcones	9,24%	11,94%	0,48%	0,88%	0,85%	1,17%	1,69%
1x66 kV Temuco - Pillanleibún	23,68%	20,56%	33,74%	31,04%	38,92%	38,75%	37,47%
1x66 kV Tomé - Mahns	22,25%	23,09%	23,74%	25,04%	26,05%	25,76%	27,00%
1x66 kV Transformador N°6 - Manco	22,52%	25,35%	20,29%	21,31%	21,14%	21,93%	23,01%
1x66 kV Tres Pinos - Cañete	24,72%	26,63%	27,53%	29,22%	30,62%	32,18%	34,07%
1x66 kV Victoria - Collipulli	1,18%	1,17%	1,19%	1,18%	1,20%	1,19%	1,19%
1x66 kV Victoria - Los Peumo	25,24%	26,73%	27,77%	29,52%	30,52%	32,14%	33,92%
1x66 kV Victoria - Tap Lautaro							
1x66 kV Victoria - Traiguén	16,70%	17,73%	18,44%	19,64%	20,34%	21,46%	22,68%
1x66 kV arranque guindos - Tap Loma Colorada C1			15,64%	16,79%	25,81%	28,31%	30,17%
1x66 kV arranque guindos - Tap Loma Colorada C2			15,64%	16,79%	25,81%	28,31%	30,17%
1x110 kV AIHUAPI - LOS NEGROS	2,54%	2,66%	2,76%	2,92%	3,06%	3,21%	3,38%
1x110 kV Ancud - Chiloé	20,39%	20,96%	21,55%	22,40%	23,20%	23,93%	24,89%
1x110 kV Antillanca - Aihuapi	2,22%	2,38%	2,48%	2,68%	2,84%	3,02%	3,24%
1x66 kV Barro Blanco - Río Negro C1	39,74%	1,38%	25,19%	26,43%	25,40%	28,35%	29,63%
1x66 kV Barro Blanco - Río Negro C2	34,07%	1,39%	19,25%	20,12%	18,41%	21,43%	22,30%
1x66 kV Barro Blanco - Pichil	12,10%	12,68%	13,05%	13,81%	14,40%	15,09%	15,88%
1x110 kV Castro - Chonchi	34,35%	33,05%	33,98%	35,94%	9,29%	9,60%	10,06%
1x110 kV Chiloé - Dalcahue	88,43%	34,11%	35,01%	37,05%	38,75%	40,05%	42,12%
1x110 kV Chiloé - Degañ	8,27%	8,50%	8,75%	9,27%	9,71%	10,06%	10,58%
1x110 kV Chiloé - Gamboa C1		10,64%	10,93%	11,40%	11,82%	12,18%	12,68%
1x110 kV Chiloé - Gamboa C2		10,64%	10,93%	11,40%	11,82%	12,18%	12,68%
1x110 kV Chiloé - San Pedro	33,92%	33,20%	32,59%	32,85%	32,85%	32,45%	32,65%
1x66 kV Chivilcán - Las Encinas	53,74%	57,32%	19,25%	20,54%	21,25%	22,49%	23,88%

Transformador	2019	2020	2021	2022	2023	2024	2025
1x110 kV Chonchi - Quellon	44,06%	42,29%	43,50%	46,07%	47,58%	49,23%	51,76%
1x110 kV Colaco - Pargua	21,08%	24,21%	24,64%	25,66%	28,44%	31,61%	32,99%
1x110 kV Dalcahue - Pid Pid	70,60%	16,98%	17,47%	18,54%	19,45%	20,15%	21,24%
1x110 kV El Empalme - Calbuco	14,93%	15,58%	16,07%	16,98%	17,80%	18,52%	19,47%
1x110 kV El Empalme - Ilque					23,13%	23,81%	24,78%
1x110 kV Empalme - Colaco	12,06%	14,96%	15,21%	15,78%	18,18%	21,03%	21,96%
1x66 kV Frutillar - Purranque 66 kV C1	17,03%	29,73%	8,55%	9,37%	8,39%	10,97%	11,71%
1x66 kV Frutillar - Purranque 66 kV C2	13,07%	20,69%	6,59%	7,15%	6,39%	8,24%	8,74%
1x66 kV La Unión (Llollehue) - Pichirropulli		26,94%	26,54%	28,61%	29,63%	32,76%	34,81%
1x66 kV La Unión - Pichirropulli (Llollehue)	13,94%	14,80%	15,25%	16,21%	16,90%	17,77%	18,78%
1x66 kV Las Encinas - Padre Las Casas	20,34%	21,70%	55,37%	59,07%	61,10%	64,66%	68,62%
1x66 kV Lastarria - Loncoche 66 kV C1			42,83%	45,70%	44,70%	49,17%	53,69%
1x66 kV Lastarria - Loncoche 66 kV C2			42,83%	45,70%	44,70%	49,17%	53,69%
1x66 kV Licanco - Metrenco C1	40,27%	61,92%	50,37%	53,78%	34,36%	36,24%	38,37%
1x66 kV Licanco - Metrenco C2			47,04%	50,22%	33,58%	35,42%	37,51%
1x66 kV Pitrufulquén - Metrenco C2			29,00%	31,69%	23,95%	27,80%	30,19%
1x66 kV Licanco - Nueva Imperial	68,31%	73,15%	75,99%	81,33%	10,63%	11,17%	11,79%
1x66 kV Llollehue - La Unión C1		9,12%	9,01%	9,70%	10,07%	11,11%	11,80%
1x66 kV Llollehue - La Unión C2		9,12%	9,01%	9,70%	10,07%	11,11%	11,80%
1x66 kV Loncoche - Pullinque C1	20,56%	22,14%	13,65%	15,11%	16,08%	16,42%	17,41%
1x66 kV Loncoche - Pullinque C2	20,56%	22,14%	13,65%	15,11%	16,08%	16,42%	17,41%
1x66 kV Loncoche - Villarica C1	42,95%	47,50%	44,69%	48,71%	50,69%	54,85%	60,31%
1x66 kV Loncoche - Villarica C2	19,71%	21,45%	20,56%	22,13%	22,96%	24,51%	26,39%
1x220 kV Los Ciruelos - Mariquina	2,28%	2,41%	2,49%	2,64%	2,73%	2,87%	3,02%
1x110 kV Melipulli - Alto Bonito	33,11%	37,01%	38,19%	40,43%	44,57%	43,88%	45,86%
1x110 kV Alto Bonito - Molinos	15,22%	18,45%	19,10%	20,24%	23,43%	21,87%	22,73%
1x66 kV Melipulli - Sangra C1	92,08%	48,84%	41,63%	44,18%	49,37%	49,13%	51,98%

Transformador	2019	2020	2021	2022	2023	2024	2025
1x66 kV Puerto Varas - Sangra C1	54,29%	10,46%	1,64%	1,64%	6,14%	2,99%	2,91%
1x66 kV Melipulli - Sangra C2	92,08%	48,84%	41,63%	44,18%	49,37%	49,13%	51,98%
1x66 kV Puerto Varas - Sangra C2	54,29%	10,46%	1,64%	1,64%	6,14%	2,99%	2,91%
1x66 kV Metrenco - Nueva Imperial C1					12,19%	12,84%	13,58%
1x66 kV Metrenco - Nueva Imperial C2					12,19%	12,84%	13,58%
1x110 kV Molino - Empalme	15,19%	18,36%	18,99%	20,14%	23,34%	21,79%	22,65%
1x110 kV Nueva Línea Gamboa - Chonchi					14,76%	15,27%	16,03%
1x110 kV Nueva Valdivia - Picarte				26,58%	28,76%	29,56%	31,10%
1x66 kV Remehue - La Unión		7,97%	3,05%	5,56%	2,87%	8,01%	9,92%
1x66 kV Remehue - Osorno C1		12,31%	14,16%	12,38%	13,28%	10,49%	8,82%
1x66 kV Pilauco - La Unión C1	26,39%	29,16%	27,02%	30,24%	30,85%	36,57%	39,64%
1x66 kV Pilauco - Remehue C1		9,88%	10,92%	11,59%	12,05%	12,46%	13,18%
1x66 kV Remehue - Los Tambores		7,63%	5,33%	5,98%	4,44%	4,72%	6,50%
1x66 kV Padre Las Casas - Licanco C1	80,66%	105,18%	6,34%	6,63%	23,89%	25,20%	26,67%
1x66 kV Padre Las Casas - Licanco C2	76,69%	65,27%	47,05%	50,22%	33,59%	35,43%	37,51%
1x66 kV Paillaco - Los Lagos	59,11%	60,05%	40,88%	38,05%	43,83%	44,72%	48,12%
1x66 kV Pichirropulli - Paillaco	66,25%	67,64%	48,67%	46,24%	52,48%	53,84%	57,76%
1x110 kV Pid Pid - Castro(Gamboa)	53,93%	0,43%	0,44%	0,44%	0,44%	0,44%	0,44%
1x110 kV Gamboa - Castro		52,02%	53,58%	56,72%	30,29%	31,40%	33,06%
1x66 kV Pilauco - Barro Blanco	44,66%	23,40%	37,15%	39,12%	39,65%	42,27%	44,32%
1x66 kV L1 Pilauco - Osorno C1	26,21%	13,57%	18,00%	18,06%	19,63%	21,70%	22,33%
1x66 kV L1 Pilauco - Osorno C2	26,21%	13,57%	18,00%	18,06%	19,63%	21,70%	22,33%
1x66 kV Remehue - Osorno C2		5,65%	6,53%	5,70%	6,13%	4,85%	4,07%
1x66 kV Pilauco - Remehue C2		23,09%	25,55%	27,12%	28,23%	29,16%	30,86%
1x66 kV Pitrufulquen - Tap Gorbea	31,98%	44,47%	12,88%	14,28%	5,35%	7,84%	8,49%
1x66 kV Pto. Varas - Llanquihue C1	4,30%	31,01%	37,99%	40,33%	40,15%	43,72%	46,07%
1x66 kV Llanquihue - Frutillar C1		21,61%	8,52%	9,28%	10,28%	10,69%	11,45%

Transformador	2019	2020	2021	2022	2023	2024	2025
1x66 kV Pto. Varas - Llanquihue C2		31,01%	37,99%	40,33%	40,15%	43,72%	46,07%
1x66 kV Llanquihue - Frutillar C2		21,61%	8,52%	9,28%	10,28%	10,69%	11,45%
1x220 kV Puerto Montt - Melipulli C1	21,61%	16,86%	17,27%	18,62%	20,43%	17,37%	18,27%
1x220 kV Puerto Montt - Melipulli C2	21,61%	16,86%	17,27%	18,62%	20,43%	17,37%	18,27%
1x66 kV Pullinque - Los Lagos	13,98%	16,65%	6,88%	9,10%	10,42%	11,27%	13,14%
1x66 kV Pullinque - Tap Panguipulli	10,79%	11,64%	18,54%	18,29%	14,15%	15,34%	15,64%
1x66 kV Pumahue - Chivilcán	171,26%	182,34%	62,71%	66,73%	68,99%	72,85%	77,08%
1x66 kV Remehue - La Misión C1		6,18%	6,37%	6,75%	7,04%	7,39%	7,79%
1x66 kV Remehue - La Misión C2		6,18%	6,37%	6,75%	7,04%	7,39%	7,79%
1x 66 kV Río Negro - Purranque C1	33,89%	2,13%	18,95%	19,82%	18,34%	21,12%	22,00%
1x 66 kV Río Negro - Purranque C2	23,52%	18,42%	9,12%	9,46%	6,15%	9,98%	10,23%
1x66 kV Tap Gorbea - Lastarria C1			9,44%	10,18%	7,80%	7,56%	7,37%
1x66 kV Tap Gorbea - Lastarria C2			10,08%	10,63%	10,84%	10,19%	10,01%
1x66 kV Metrenco - Pitrufrquén	40,34%	62,00%	27,75%	30,32%	22,91%	26,59%	28,88%
1x66 kV Pitrufrquén - Tap Gorbea	40,39%	35,58%	9,89%	10,64%	8,10%	7,96%	7,78%
1x66 kV Tap Panguipulli - Los Lagos	14,68%	16,91%	8,15%	10,32%	12,56%	13,29%	14,97%
1x66 kV Temuco - Padre las Casas	76,68%	85,22%	64,75%	69,08%	71,46%	75,62%	80,25%
1x66 kV Temuco - Padre las Casas	80,66%	85,22%	64,75%	69,08%	71,46%	75,62%	80,25%
1x66 kV Temuco - Pumahue C1	25,91%	27,65%	28,29%	30,21%	30,14%	31,82%	33,65%
1x66 kV Temuco - Pumahue C2	218,79%	232,95%	80,08%	85,22%	88,11%	93,04%	98,44%
1x66 kV Tres Bocas - Corral	9,74%	10,28%	10,32%	10,74%	11,08%	11,59%	12,19%
1x66 kV Tres Bocas - Picarte	12,88%	13,45%	13,36%	13,76%	14,05%	14,56%	15,18%
1x66 kV Valdivia - Los Lagos	12,87%	15,75%	9,78%	17,65%	21,31%	23,16%	25,74%
1x66 kV Valdivia - Picarte C2	79,06%	84,04%	58,21%	32,34%	31,73%	34,17%	36,22%
1x66 kV Valdivia - Picarte C1	87,59%	93,10%	64,49%	35,83%	35,14%	37,85%	40,13%
1x66 kV Villarrica - Pucon	29,23%	32,32%	30,42%	33,15%	34,49%	37,32%	41,02%

Tabla 6.4.54. Cargabilidad de líneas de transmisión en escenario Invierno Noche, Zona Charrúa – Chiloé.

Transformador	2019	2020	2021	2022	2023	2024	2025
1x66 kV Alonso de Ribera - Andalien							
1x66 kV Alonso de Ribera - Chiguayante	58,21%	61,37%	63,93%	67,73%			
1x66 kV Alonso de Ribera - Colo Colo	84,00%	78,33%	51,17%	53,96%	74,24%	65,66%	69,02%
1x66 kV Alonso de Ribera - Ejército	59,71%	51,64%	20,02%	21,12%	42,21%	31,00%	32,55%
1x66 kV Alonso de Ribera - Penco	21,01%	21,48%	21,73%	22,38%	22,66%	23,08%	23,74%
1x66 kV Alonso de Ribera - Perales	0,15%	0,15%	0,15%	0,15%	0,16%	0,16%	0,16%
1x66 kV Angol - Los Sauces	13,78%	14,55%	15,33%	15,77%	16,44%	17,25%	18,19%
1x66 kV Angol - Picoquén	26,06%	25,99%	25,84%	25,63%	25,46%	25,44%	25,58%
1x66 kV Arenas Blancas - Puchoco	5,55%	5,95%	6,16%	6,51%	6,80%	7,12%	7,50%
1x66 kV Arenas Blancas - Tap Polpaico	18,15%	19,37%	19,97%	21,04%	0,20%	0,20%	0,20%
1x66 kV Arranque Guindo - Tap Arranqueguindo 1			35,40%	37,10%	38,60%	40,09%	41,97%
1x66 kV Arranque Guindo - Tap Arranqueguindo 2			17,53%	19,01%	24,50%	26,55%	28,33%
1x66 kV Arranque Guindo - Tap Arranqueguindo 3			17,53%	19,01%	24,50%	26,55%	28,33%
1x66 kV Arranque Guindo - Tap Arranqueguindo 4			35,41%	37,11%	38,61%	40,09%	41,98%
1x66 kV Ejercito - Tap Cerro Chepe C2		0,04%	0,04%	0,04%	0,04%	0,04%	0,04%
1x66 kV Concepción - Ejercito C2		11,10%	14,87%	16,11%	26,65%	3,99%	4,56%
1x66 kV Carampangue - Curanilahue Norte	21,98%	23,37%	24,12%	25,39%	26,38%	27,49%	28,87%
1x66 kV Tap Carampangue - Curanilahue Norte	9,60%	10,56%	11,14%	12,06%	12,85%	13,73%	14,87%
1x66 kV Cerro Chepe - Tap San Pedro C1	24,45%	0,09%	0,09%	0,09%	0,09%	0,09%	0,09%
1x66 kV Cerro Chepe - Tap San Pedro C2	24,03%	0,10%	0,10%	0,10%	0,10%	0,10%	0,10%
1x154 kV Charrua - Los Angeles	16,76%	16,02%	15,02%	9,83%	9,28%	8,20%	7,66%
1x66 kV Charrúa - Cabrero	33,57%	34,39%	35,20%	36,02%	36,55%	37,31%	38,20%
1x154 kV Charrúa - Concepción	13,41%	14,91%	3,30%	5,66%	5,82%	8,32%	9,57%
1x66 kV Charrúa - Enlace	36,25%	37,27%	38,27%	39,33%	39,99%	40,95%	42,05%
1x66 kV Charrúa - Laja	10,21%	10,75%	11,31%	1,61%	1,62%	1,63%	1,63%
1x66 kV Collipulli - Angol	16,14%	17,11%	18,08%	18,65%	19,50%	20,52%	21,70%

Transformador	2019	2020	2021	2022	2023	2024	2025
1x66 kV Colo Colo - Ejército	4,02%	7,05%	36,92%	38,98%	22,08%	34,79%	36,62%
1x154 kV Concepción - Alonso de Ribera	55,85%	53,51%	39,95%	42,03%	34,79%	30,08%	31,44%
1x66 kV Concepción - Andalien C1	51,84%	53,93%	56,19%	59,57%	62,22%	64,88%	68,56%
1x66 kV Concepción - Andalien C2	51,84%	53,93%	56,19%	59,57%	62,22%	64,88%	68,56%
1x66 kV Concepción - Penco	45,42%	46,96%	48,63%	51,30%	53,29%	17,50%	18,19%
1x154 kV Concepción - San Vicente C1	30,08%	31,88%	40,28%	39,56%	34,11%	21,69%	20,75%
1x154 kV Concepción - San Vicente C2	25,45%	26,51%	32,96%	32,32%	27,48%	16,97%	16,16%
1x66 kV Concepción - Ejercito C1	24,37%	11,49%	15,40%	16,68%	27,60%	4,13%	4,72%
1x66 kV Coronel - Arenas Blancas	40,31%	43,01%	44,32%	46,68%	27,40%	28,58%	30,00%
1x66 kV Coronel - Arr. Lota (Enacar)	24,87%	27,14%	29,49%	31,23%	32,09%	33,59%	35,50%
1x66 kV Coronel - Arr. Lota (Frontel)	15,67%	16,08%	31,65%	33,58%	35,79%	37,66%	39,91%
1x154 kV Coronel - Quiñenco	48,55%	49,87%	37,57%	39,53%	39,38%	40,97%	43,01%
1x66 kV Coronel - Transformador N°6	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%
1x66 kV Curanilahue - Tres Pinos	0,58%	0,57%	0,57%	0,57%	0,57%	0,56%	0,56%
1x66 kV Curanilahue - Curanilahue Norte	22,01%	23,40%	24,15%	25,42%	26,41%	27,52%	28,90%
1x66 kV Curanilahue - Tres Pinos	9,79%	10,75%	11,34%	12,26%	13,05%	13,94%	15,09%
1x66 kV Dichato - Tome 66 kV C1						17,67%	18,62%
1x66 kV Dichato - Tome 66 kV C2						17,67%	18,62%
1x66 kV Ejercito - Trebol C1			26,35%	28,05%	23,85%	20,01%	21,26%
1x66 kV Ejercito - Trebol C2			26,35%	28,05%	23,85%	20,01%	21,26%
1x66 kV Enlace - Fibranova	48,83%	49,94%	51,05%	52,16%	52,83%	53,84%	55,04%
1x66 kV Estructura 44 - San Pedro 66 kV C1	26,16%	28,37%	28,28%	29,95%	31,45%	32,97%	34,81%
1x66 kV Estructura 44 - San Pedro 66 kV C2	26,59%	28,74%	28,64%	30,34%	31,86%	33,40%	35,27%
1x66 kV Estructura 72 - Escuadron					32,98%	34,41%	36,14%
1x154 kV Fopaco - Lagunillas	40,46%	42,40%	52,28%	52,15%	49,29%	41,30%	41,03%
1x220 kV Guindo - Lagunillas			63,04%	63,79%	61,21%	51,99%	52,75%

Transformador	2019	2020	2021	2022	2023	2024	2025
1x66 kV Horcones - Arauco	24,67%	25,10%					
1x66 kV Horcones - Carampangue	25,74%	27,69%	28,86%	30,69%	32,22%	33,90%	36,00%
1x66 kV Horcones - Tap Carampangue	17,55%	18,91%	19,72%	20,99%	22,04%	23,21%	24,67%
1x220 kV Hualpen - Guindo			51,63%	51,66%	47,59%	37,53%	37,40%
1x154 kV Hualpen - Petroquímicas	9,27%	9,29%	9,25%	9,26%	9,21%	9,15%	9,18%
1x154 kV Hualpén - Mapal	34,26%	36,29%	46,20%	46,05%	43,29%	35,37%	35,05%
1x220 kV Hualqui - Lagunillas					41,08%	54,06%	52,87%
1x66 kV Indura Lirquén - Lirquén	21,25%	21,97%	22,46%	23,40%	23,93%	24,62%	25,57%
1x66 kV La Señoraza - Laja				7,18%	7,49%	7,84%	8,22%
1x154 kV Lagunillas - Quiñenco	1,50%	7,73%	11,52%	9,97%	9,90%	9,37%	8,13%
1x66 kV Laja - FFCC Laja	0,14%	0,14%	0,14%	0,14%	0,14%	0,14%	0,14%
1x66 kV Latorre - Tumbes	16,38%	17,12%	17,64%	18,48%	19,11%	19,80%	20,69%
1x66 kV Loma Colorada - Estructura					37,75%	39,39%	41,37%
1x66 kV Los Angeles - Los Buenos Aires	49,34%	49,15%	48,84%	47,38%	46,66%	46,19%	46,03%
1x66 kV Los Angeles - Manso de Velasco	41,05%	43,17%	45,30%	52,63%	52,07%	53,37%	53,74%
1x66 kV Los Angeles - Pangué	6,74%	6,89%	7,03%	7,24%	7,36%	7,53%	7,71%
1x66 kV Los Angeles - Pangué 66 kV	4,24%	4,26%	4,27%	4,31%	4,31%	4,33%	4,35%
1x66 kV Los Angeles - Tap Duqueco C1	0,13%	0,13%	0,13%	0,14%	0,14%	0,14%	0,14%
1x66 kV Los Angeles - Tap Duqueco C2	0,21%	0,21%	0,21%	0,22%	0,22%	0,22%	0,22%
1x66 kV Los Buenos Aires - Negrete	23,60%	23,28%	22,88%	22,20%	21,66%	21,28%	21,08%
1x66 kV Los Peumos - Curacautín	10,25%	10,87%	11,38%	12,10%	12,61%	13,27%	14,02%
1x66 kV Los Varoes - El Avellano C1				8,03%	8,04%	7,92%	8,16%
1x66 kV Los Varoes - El Avellano C2				8,03%	8,04%	7,92%	8,16%
1x66 kV Lota (Enacar) - Arr. Colcura	10,35%	11,90%	13,47%	14,40%	14,60%	15,37%	16,42%
4x66 kV Manso de Velasco - El Avellano	5,89%	6,12%	6,35%	26,61%	26,06%	25,63%	25,83%
1x154 kV Mapal - Fopaco	37,24%	39,24%	49,14%	49,00%	46,20%	38,25%	37,95%

Transformador	2019	2020	2021	2022	2023	2024	2025
1x220 kV Mulchen - Picoltue	2,57%	2,57%	2,56%	2,57%	2,55%	2,54%	2,55%
1x66 kV Negrete - Renaico	26,97%	26,02%	24,88%	24,17%	23,28%	22,65%	22,39%
1x66 kV Paños Bellavista - Tomé	35,48%	36,74%	38,07%	40,18%	41,76%	53,43%	56,21%
1x66 kV Penco - Indura Lirquén	23,99%	24,53%	24,82%	25,56%	25,88%	26,36%	27,11%
1x66 kV Penco - Paños Bellavista	35,47%	36,73%	38,06%	40,17%	41,76%	53,43%	56,21%
1x154 kV Petroquimicas - Hualpen	43,57%	45,56%	49,38%	49,65%	46,65%	39,51%	39,69%
1x66 kV Pillanlelbún - Lautaro	43,44%	40,80%	45,82%	43,17%	45,73%	44,77%	42,06%
1x66 kV Renaico - Nahuelbuta	27,00%	26,05%	24,92%	24,21%	23,33%	22,70%	22,44%
1x66 kV Nahuelbuta - Angol	14,46%	14,36%	14,11%	15,49%	15,97%	16,81%	17,99%
1x154 kV San Vicente - Hualpen	42,01%	44,08%	48,12%	48,40%	45,27%	37,79%	37,97%
1x66 KV Seccionadora Lota - Lota	18,79%	19,85%	20,54%	21,55%	22,37%	23,26%	24,33%
1x66 kV TAP LOTA ENACAR - Tap Lota	22,75%	25,02%	27,33%	28,95%	29,64%	31,01%	32,80%
1x66 kV Talcahuano - Latorre 66 kV C1	44,27%	46,51%	48,16%	50,68%	52,65%	54,80%	57,53%
1x66 kV Talcahuano - Latorre 66 kV C2	0,07%	0,07%	0,07%	0,07%	0,07%	0,07%	0,07%
1x66 kV Talcahuano - Perales	42,23%	44,36%	36,26%	38,13%	39,58%	41,16%	43,20%
1x66 kV Tap Carampangue - Carampangue	8,17%	8,59%	8,84%	9,22%	9,52%	9,85%	10,22%
1x66 kV Ejercito - Tap Cerro Chepe C1	24,40%	0,03%	0,04%	0,04%	0,04%	0,04%	0,04%
1x66 kV Tap Enacar - Enacar	8,27%	8,83%	9,24%	9,79%	10,26%	10,76%	11,36%
1x66 kV Tap Loma Colorada - Coronel C1	68,72%	64,64%	13,87%	13,99%	26,33%	27,08%	27,83%
1x66 kV Tap Loma Colorada - Coronel C2	68,72%	64,64%	13,87%	13,99%	26,33%	27,08%	27,83%
1x66 kV Tap Loma Colorada - Loma Colorada	68,63%	74,72%	74,52%	78,99%	42,86%	44,81%	47,16%
1x66 kV Tap Lota (Frontel) - Horcones	23,30%	23,84%	30,66%	32,52%	34,66%	36,46%	38,63%
1x66 kV Tap Polpaico - Escuadrón	17,98%	19,19%	19,80%	20,87%	0,02%	0,02%	0,02%
1x66 kV Tap San Pedro - Arranque Guindo C1			35,44%	37,14%	38,64%	40,13%	42,01%
1x66 kV Tap San Pedro - Arranque Guindo C2			35,45%	37,15%	38,65%	40,14%	42,02%
1x66 kV Tap-off Colcura - Horcones	21,31%	24,64%	13,55%	14,49%	14,69%	15,46%	16,53%

Transformador	2019	2020	2021	2022	2023	2024	2025
1x66 kV Temuco - Pillanlelún	37,48%	34,33%	40,87%	37,98%	41,43%	40,72%	37,94%
1x66 kV Tomé - Mahns	19,83%	20,50%	21,24%	22,41%	23,29%	23,03%	24,13%
1x66 kV Transformador N°6 - Manco	24,85%	27,11%	29,46%	31,20%	32,06%	33,56%	35,47%
1x66 kV Tres Pinos - Cañete	25,61%	27,66%	28,97%	30,92%	32,59%	34,42%	36,70%
1x66 kV Victoria - Collipulli	1,09%	1,08%	1,09%	1,09%	1,10%	1,10%	1,09%
1x66 kV Victoria - Los Peumo	21,73%	22,95%	23,98%	25,39%	26,40%	27,71%	29,19%
1x66 kV Victoria - Tap Lautaro							
1x66 kV Victoria - Traiguén	14,90%	15,78%	16,51%	17,52%	18,25%	19,19%	20,26%
1x66 kV arranque guindos - Tap Loma Colorada C1			17,54%	19,02%	24,51%	26,56%	28,34%
1x66 kV arranque guindos - Tap Loma Colorada C2			17,54%	19,02%	24,51%	26,56%	28,34%
1x110 kV AIHUAPI - LOS NEGROS	1,69%	1,77%	1,83%	1,93%	2,03%	2,12%	2,23%
1x110 kV Ancud - Chiloé	17,01%	17,48%	17,96%	18,60%	19,25%	19,86%	20,61%
1x110 kV Antillanca - Aihuapi	1,65%	1,77%	1,86%	2,02%	2,16%	2,29%	2,46%
1x66 kV Barro Blanco - Río Negro C1	30,46%	20,53%	20,82%	21,88%	23,16%	23,65%	24,76%
1x66 kV Barro Blanco - Río Negro C2	24,99%	14,98%	14,99%	15,72%	16,68%	17,01%	17,74%
1x66 kV Barro Blanco - Pichil	3,40%	3,55%	3,67%	3,87%	4,05%	4,23%	4,45%
1x110 kV Castro - Chonchi	4,20%	3,87%	4,02%	4,45%	1,07%	1,14%	1,23%
1x110 kV Chiloé - Dalcahue	38,24%	19,61%	20,10%	21,16%	22,13%	22,91%	24,00%
1x110 kV Chiloé - Degañ	4,47%	4,60%	4,73%	5,00%	5,24%	5,44%	5,71%
1x110 kV Chiloé - Gamboa C1		4,92%	5,02%	5,07%	5,20%	5,29%	5,37%
1x110 kV Chiloé - Gamboa C2		4,92%	5,02%	5,07%	5,20%	5,29%	5,37%
1x110 kV Chiloé - San Pedro	36,77%	36,03%	35,34%	35,51%	35,55%	35,21%	35,36%
1x66 kV Chivilcán - Las Encinas	55,82%	59,37%	17,78%	18,90%	19,70%	20,78%	22,01%
1x110 kV Chonchi - Quellon	26,57%	26,09%	26,85%	28,33%	29,62%	30,76%	32,29%
1x110 kV Colaco - Pargua	16,52%	18,94%	19,22%	19,85%	22,10%	20,80%	21,61%
1x110 kV Dalcahue - Pid Pid	27,16%	8,52%	8,76%	9,25%	9,70%	10,07%	10,58%

Transformador	2019	2020	2021	2022	2023	2024	2025
1x110 kV El Empalme - Calbuco	9,27%	9,68%	10,01%	10,54%	11,05%	11,49%	12,05%
1x110 kV El Empalme - Ilque					15,95%	16,36%	16,93%
1x110 kV Empalme - Colaco	10,55%	12,89%	13,07%	13,42%	15,42%	14,00%	14,54%
1x66 kV Frutillar - Purranque 66 kV C1	10,45%	4,88%	5,06%	5,72%	5,98%	7,60%	8,20%
1x66 kV Frutillar - Purranque 66 kV C2	6,84%	4,04%	4,15%	4,59%	4,78%	5,89%	6,30%
1x66 kV La Unión (Llollehue) - Pichirropulli		19,44%	19,10%	20,62%	22,31%	23,70%	25,20%
1x66 kV La Unión - Pichirropulli (Llollehue)	20,58%	21,85%	22,65%	24,05%	25,27%	26,51%	28,01%
1x66 kV Las Encinas - Padre Las Casas	21,37%	22,74%	55,26%	58,73%	61,17%	64,49%	68,27%
1x66 kV Lastarria - Loncoche 66 kV C1			25,96%	28,18%	29,94%	32,83%	36,44%
1x66 kV Lastarria - Loncoche 66 kV C2			25,96%	28,18%	29,94%	32,83%	36,44%
1x66 kV Licanco - Metrenco C1	21,78%	36,71%	47,37%	50,41%	32,30%	33,98%	35,92%
1x66 kV Licanco - Metrenco C2			44,35%	47,19%	31,71%	33,36%	35,26%
1x66 kV Pitrufquén - Metrenco C2			13,80%	15,57%	13,63%	14,97%	16,58%
1x66 kV Licanco - Nueva Imperial	59,93%	63,83%	67,77%	72,27%	9,42%	9,88%	10,41%
1x66 kV Llollehue - La Unión C1		6,64%	6,56%	7,06%	7,64%	8,10%	8,61%
1x66 kV Llollehue - La Unión C2		6,64%	6,56%	7,06%	7,64%	8,10%	8,61%
1x66 kV Loncoche - Pullinque C1	25,66%	26,71%	21,37%	22,60%	23,03%	23,71%	24,59%
1x66 kV Loncoche - Pullinque C2	25,66%	26,71%	21,37%	22,60%	23,03%	23,71%	24,59%
1x66 kV Loncoche - Villarrica C1	38,65%	42,12%	41,90%	45,30%	47,90%	51,37%	55,97%
1x66 kV Loncoche - Villarrica C2	15,94%	17,19%	17,19%	18,41%	19,35%	20,54%	22,01%
1x220 kV Los Ciruelos - Mariquina	2,51%	2,65%	2,75%	2,91%	3,03%	3,18%	3,35%
1x110 kV Melipulli - Alto Bonito	15,61%	18,89%	19,74%	21,03%	24,21%	27,08%	28,24%
1x110 kV Alto Bonito - Molinos	3,62%	6,19%	6,55%	7,16%	9,69%	11,93%	12,37%
1x66 kV Melipulli - Sangra C1	80,26%	39,36%	39,20%	41,26%	42,82%	43,28%	45,60%
1x66 kV Puerto Varas - Sangra C1	45,70%	4,98%	5,79%	5,44%	5,37%	5,32%	5,05%
1x66 kV Melipulli - Sangra C2	80,26%	39,36%	39,20%	41,26%	42,82%	43,28%	45,60%

Transformador	2019	2020	2021	2022	2023	2024	2025
1x66 kV Puerto Varas - Sangra C2	45,70%	4,98%	5,79%	5,44%	5,37%	5,32%	5,05%
1x66 kV Metrenco - Nueva Imperial C1					11,36%	11,93%	12,60%
1x66 kV Metrenco - Nueva Imperial C2					11,36%	11,93%	12,60%
1x110 kV Molino - Empalme	3,87%	6,29%	6,60%	7,23%	9,74%	11,92%	12,38%
1x110 kV Nueva Línea Gamboa - Chonchi					1,85%	1,96%	2,13%
1x110 kV Nueva Valdivia - Picarte				23,32%	24,44%	25,54%	26,85%
1x66 kV Remehue - La Unión		3,54%	2,52%	1,33%	1,96%	3,22%	4,70%
1x66 kV Remehue - Osorno C1		9,80%	11,83%	10,32%	9,36%	8,60%	7,22%
1x66 kV Pilauco - La Unión C1	16,56%	24,36%	22,66%	25,28%	28,13%	30,49%	33,03%
1x66 kV Pilauco - Remehue C1		10,21%	11,43%	12,02%	12,40%	13,11%	13,80%
1x66 kV Remehue - Los Tambores		5,92%	7,74%	6,88%	5,67%	5,21%	5,38%
1x66 kV Padre Las Casas - Licanco C1	57,90%	75,15%	6,63%	6,94%	24,01%	25,27%	26,73%
1x66 kV Padre Las Casas - Licanco C2	46,52%	38,94%	44,36%	47,20%	31,71%	33,36%	35,26%
1x66 kV Paillaco - Los Lagos	39,38%	38,54%	25,59%	21,69%	24,45%	26,35%	28,54%
1x66 kV Pichirropulli - Paillaco	44,00%	43,58%	30,75%	27,26%	30,13%	32,43%	35,01%
1x110 kV Pid Pid - Castro(Gamboa)	18,81%	0,40%	0,41%	0,41%	0,41%	0,41%	0,41%
1x110 kV Gamboa - Castro		18,49%	19,10%	20,26%	18,77%	19,56%	20,60%
1x66 kV Pilauco - Barro Blanco	20,84%	15,16%	15,43%	16,22%	17,12%	17,53%	18,36%
1x66 kV L1 Pilauco - Osorno C1	26,85%	14,45%	17,74%	18,67%	20,06%	22,22%	23,47%
1x66 kV L1 Pilauco - Osorno C2	26,85%	14,45%	17,74%	18,67%	20,06%	22,22%	23,47%
1x66 kV Remehue - Osorno C2		4,40%	5,34%	4,65%	4,23%	3,89%	3,26%
1x66 kV Pilauco - Remehue C2		24,27%	27,22%	28,63%	29,53%	31,21%	32,86%
1x66 kV Pitrufulquen - Tap Gorbea	17,41%	25,33%	5,22%	5,55%	3,54%	3,55%	3,33%
1x66 kV Pto. Varas - Llanquihue C1	1,03%	27,88%	30,00%	31,87%	33,86%	36,29%	38,21%
1x66 kV Llanquihue - Frutillar C1		6,58%	7,09%	7,65%	7,96%	8,85%	9,46%
1x66 kV Pto. Varas - Llanquihue C2		27,88%	30,00%	31,87%	33,86%	36,29%	38,21%

Transformador	2019	2020	2021	2022	2023	2024	2025
1x66 kV Llanquihue - Frutillar C2		6,58%	7,09%	7,65%	7,96%	8,85%	9,46%
1x220 kV Puerto Montt - Melipulli C1	11,21%	5,80%	6,35%	7,31%	8,61%	12,65%	13,32%
1x220 kV Puerto Montt - Melipulli C2	11,21%	5,80%	6,35%	7,31%	8,61%	12,65%	13,32%
1x66 kV Pullinque - Los Lagos	3,19%	3,06%	3,76%	2,65%	1,58%	1,92%	3,50%
1x66 kV Pullinque - Tap Panguipulli	17,77%	18,10%	23,36%	23,08%	22,20%	22,34%	22,71%
1x66 kV Pumahue - Chivilcán	149,26%	158,59%	50,99%	54,06%	56,24%	59,15%	62,42%
1x66 kV Remehue - La Misión C1		5,80%	6,01%	6,35%	6,67%	6,97%	7,34%
1x66 kV Remehue - La Misión C2		5,80%	6,01%	6,35%	6,67%	6,97%	7,34%
1x 66 kV Río Negro - Purranque C1	25,03%	14,90%	14,96%	15,67%	16,64%	16,88%	17,62%
1x 66 kV Río Negro - Purranque C2	14,89%	5,15%	4,69%	4,90%	5,31%	5,69%	5,87%
1x66 kV Tap Gorbea - Lastarria C1			7,58%	7,45%	7,73%	7,64%	7,29%
1x66 kV Tap Gorbea - Lastarria C2			9,52%	9,39%	10,12%	10,11%	9,85%
1x66 kV Metrenco - Pitrufquén	21,84%	36,78%	13,22%	14,91%	13,05%	14,34%	15,87%
1x66 kV Pitrufquén - Tap Gorbea	21,90%	19,66%	7,89%	7,79%	7,94%	7,87%	7,53%
1x66 kV Tap Panguipulli - Los Lagos	5,60%	6,21%	1,56%	3,01%	4,60%	5,62%	6,94%
1x66 kV Temuco - Padre las Casas	46,52%	57,03%	58,86%	62,56%	65,16%	68,70%	72,73%
1x66 kV Temuco - Padre las Casas	57,90%	57,03%	58,86%	62,56%	65,16%	68,70%	72,73%
1x66 kV Temuco - Pumahue C1	20,84%	22,13%	22,87%	24,28%	24,78%	26,05%	27,47%
1x66 kV Temuco - Pumahue C2	193,00%	205,05%	65,91%	69,88%	72,69%	76,46%	80,69%
1x66 kV Tres Bocas - Corral	5,33%	5,61%	5,69%	5,92%	6,15%	6,41%	6,73%
1x66 kV Tres Bocas - Picarte	8,01%	8,31%	8,28%	8,48%	8,69%	8,94%	9,27%
1x66 kV Valdivia - Los Lagos	8,48%	5,40%	5,98%	2,28%	4,70%	5,95%	7,64%
1x66 kV Valdivia - Picarte C2	70,21%	74,46%	52,16%	29,86%	30,90%	32,46%	34,31%
1x66 kV Valdivia - Picarte C1	79,00%	83,78%	58,69%	33,59%	34,77%	36,53%	38,60%
1x66 kV Villarrica - Pucon	25,92%	28,24%	28,09%	30,37%	32,11%	34,43%	37,51%