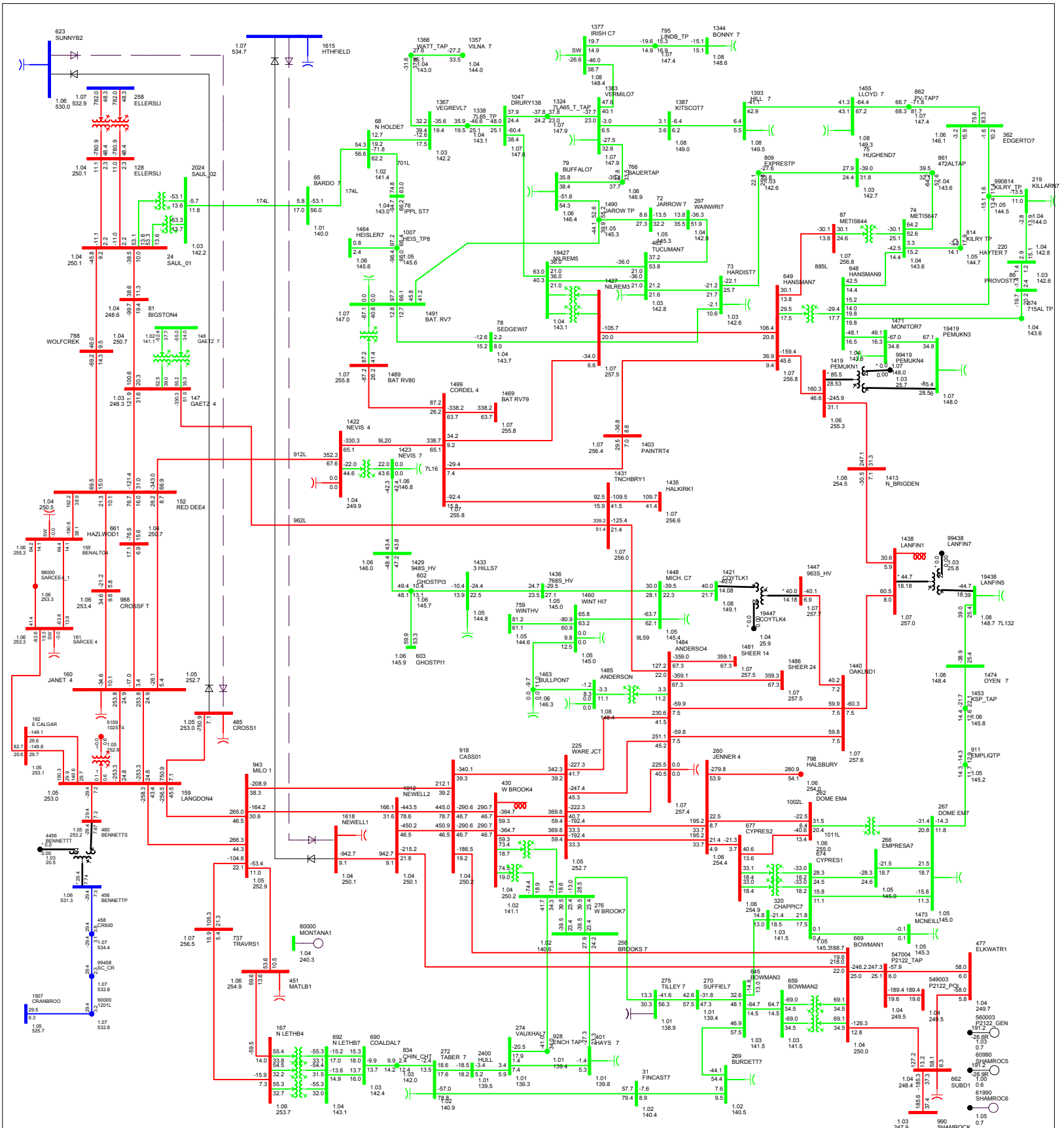
Attachment C: Power Flow SLDs – Preferred Transmission Development Capability

Attachment C Summary

No.	Capability Category	Scenario	Option	Case	Contingency	Figure No.
1	B	1	CETO Stage 1	M4	Base	Fig. C-1
2	B	1	CETO Stage 1	M4	EATL	Fig. C-2
3	B	1	CETO Stage 1	M4	923L	Fig. C-3
4	B	1	CETO Stage 1	M4	935L	Fig. C-4
5	B	1	CETO Stage 1	M4	962L_9L962	Fig. C-5
6	B	1	CETO Stage 1	M4	1035L	Fig. C-6
7	B	1	CETO Stage 1	M5	Base	Fig. C-7
8	B	1	CETO Stage 1	M5	EATL	Fig. C-8
9	B	1	CETO Stage 1	M5	923L	Fig. C-9
10	B	1	CETO Stage 1	M5	935L	Fig. C-10
11	B	1	CETO Stage 1	M5	1035L	Fig. C-11
12	B	1	CETO Stage 1&2	M4	Base	Fig. C-12
13	B	1	CETO Stage 1&2	M4	766S901T	Fig. C-13
14	B	1	CETO Stage 1&2	M4	EATL	Fig. C-14
15	B	1	CETO Stage 1&2	M4	923L	Fig. C-15
16	B	1	CETO Stage 1&2	M4	935L	Fig. C-16
17	B	1	CETO Stage 1&2	M4	7L233	Fig. C-17
18	B	1	CETO Stage 1&2	M4	912L	Fig. C-18
19	B	1	CETO Stage 1&2	M4	1035L	Fig. C-19
20	B	1	CETO Stage 1&2	M5	Base	Fig. C-20
21	B	1	CETO Stage 1&2	M5	EATL	Fig. C-21
22	B	1	CETO Stage 1&2	M5	923L	Fig. C-22
23	B	1	CETO Stage 1&2	M5	935L	Fig. C-23
24	B	1	CETO Stage 1&2	M5	1035L	Fig. C-24
25	B	1	CETO Stage 1&2	M8	Base	Fig. C-25
26	B	1	CETO Stage 1&2	M8	766S901T	Fig. C-26
27	B	1	CRPC, CETO Stage1	M4	Base	Fig. C-27
28	B	1	CRPC, CETO Stage1	M4	7L205	Fig. C-28
29	B	1	CRPC, CETO Stage1	M4	EATL	Fig. C-29
30	B	1	CRPC, CETO Stage1	M5	Base	Fig. C-30
31	B	1	CRPC, CETO Stage1	M5	EATL	Fig. C-31
32	B	1	CRPC, CETO Stage1	M5	962L_9L962	Fig. C-32
33	B	1	CRPC, CETO Stage1	M5	WATL	Fig. C-33
34	B	1	CRPC, CETO Stage 1&2	M4	Base	Fig. C-34
35	B	1	CRPC, CETO Stage 1&2	M4	7L205	Fig. C-35
36	B	1	CRPC, CETO Stage 1&2	M4	EATL	Fig. C-36
37	B	1	CRPC, CETO Stage 1&2	M4	1035L	Fig. C-37
38	B	1	CRPC, CETO Stage 1&2	M5	Base	Fig. C-38
39	B	1	CRPC, CETO Stage 1&2	M5	EATL	Fig. C-39
40	B	1	CRPC, CETO Stage 1&2	M5	1035L	Fig. C-40
41	B	2	CETO Stage 1	H2	Base	Fig. C-41
42	B	2	CETO Stage 1	H2	962L_9L962	Fig. C-42
43	B	2	CETO Stage 1	H3	Base	Fig. C-43
44	B	2	CETO Stage 1	H3	EATL	Fig. C-44
45	B	2	CETO Stage 1	H5	Base	Fig. C-45
46	B	2	CETO Stage 1	H5	EATL	Fig. C-46

No.	Capability Category	Scenario	Option	Case	Contingency	Figure No.
47	B	2	CETO Stage 1	H5	1035L	Fig. C-47
48	B	2	CETO Stage1&2	H2	Base	Fig. C-48
49	B	2	CETO Stage1&2	H2	766S901T	Fig. C-49
50	B	2	CETO Stage1&2	H2	1035L	Fig. C-50
51	B	2	CETO Stage1&2	H5	Base	Fig. C-51
52	B	2	CETO Stage1&2	H5	EATL	Fig. C-52
53	B	2	CETO Stage1&2	H5	1035L	Fig. C-53
54	B	2	CRPC, CETO Stage1	H5	Base	Fig. C-54
55	B	2	CRPC, CETO Stage1	H5	EATL	Fig. C-55
56	B	2	CRPC, CETO Stage1	H5	966L	Fig. C-56
57	B	2	CRPC, CETO Stage 1&2	H5	Base	Fig. C-57
58	B	2	CRPC, CETO Stage 1&2	H5	EATL	Fig. C-58
59	B	2	CRPC, CETO Stage 1&2	H5	966L	Fig. C-59
60	A	1	CETO Stage1	M4	Base	Fig. C-60
61.01	A	1	CETO Stage1	M4	EATL	Fig. C-61.01
61.02	A	1	CETO Stage1	M4	EATL	Fig. C-61.02
62	A	1	CETO Stage1&2	M5	Base	Fig. C-62
63.01	A	1	CETO Stage1&2	M5	EATL	Fig. C-63.01
63.02	A	1	CETO Stage1&2	M5	EATL	Fig. C-63.02
64	A	1	CRPC, CETO Stage1	M4	Base	Fig. C-64
65.01	A	1	CRPC, CETO Stage1	M4	EATL	Fig. C-65.01
65.02	A	1	CRPC, CETO Stage1	M4	EATL	Fig. C-65.02
66	A	1	CRPC, CETO Stage1&2	M5	Base	Fig. C-66
67.01	A	1	CRPC, CETO Stage1&2	M5	EATL	Fig. C-67.01
67.02	A	1	CRPC, CETO Stage1&2	M5	EATL	Fig. C-67.02
68	A	2	CETO Stage1	H5	Base	Fig. C-68
69.01	A	2	CETO Stage1	H5	EATL	Fig. C-69.01
69.02	A	2	CETO Stage1	H5	EATL	Fig. C-69.02
70	A	2	CETO Stage1&2	H5	Base	Fig. C-70
71.01	A	2	CETO Stage1&2	H5	EATL	Fig. C-71.01
71.02	A	2	CETO Stage1&2	H5	EATL	Fig. C-71.02
72	A	2	CRPC, CETO Stage1	H2	Base	Fig. C-72
73.01	A	2	CRPC, CETO Stage1	H2	EATL	Fig. C-73.01
73.02	A	2	CRPC, CETO Stage1	H2	EATL	Fig. C-73.02
74	A	2	CRPC, CETO Stage1	H5	Base	Fig. C-74
75.01	A	2	CRPC, CETO Stage1	H5	EATL	Fig. C-75.01
75.02	A	2	CRPC, CETO Stage1	H5	EATL	Fig. C-75.02
76	A	2	CRPC, CETO Stage1&2	H2	Base	Fig. C-76
77.01	A	2	CRPC, CETO Stage1&2	H2	EATL	Fig. C-77.01
77.02	A	2	CRPC, CETO Stage1&2	H2	EATL	Fig. C-77.02
78	A	2	CRPC, CETO Stage1&2	H5	Base	Fig. C-78
79.01	A	2	CRPC, CETO Stage1&2	H5	EATL	Fig. C-79.01
79.02	A	2	CRPC, CETO Stage1&2	H5	EATL	Fig. C-79.02

For Category A Single Line Diagrams: The XX.01 extension represent the post contingency conditions and the XX.02 extension represents the post-contingency and post-generation curtailment conditions.



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

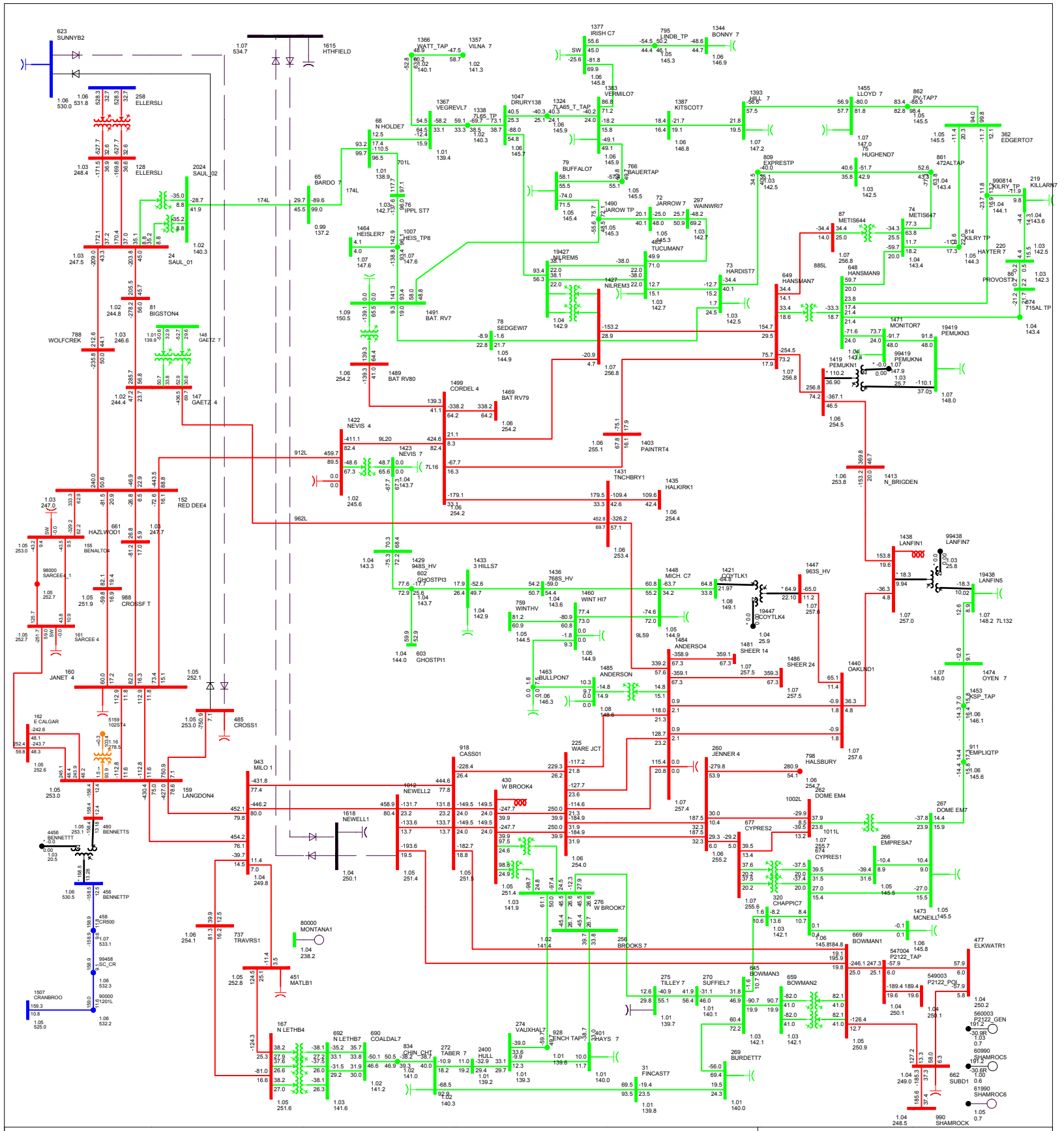
South East: 531.9 MW Central East: 483.9 MW South West: 353.0 MW

FIG. C-1 :YR:2023SP; CASE: M4; GEN SCN 1
PROJECT: CETO STAGE1
CAP: MAXIMIZE
SUN, JUL 12 2020 23:10
Contingency: Base; Trip Action: None

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

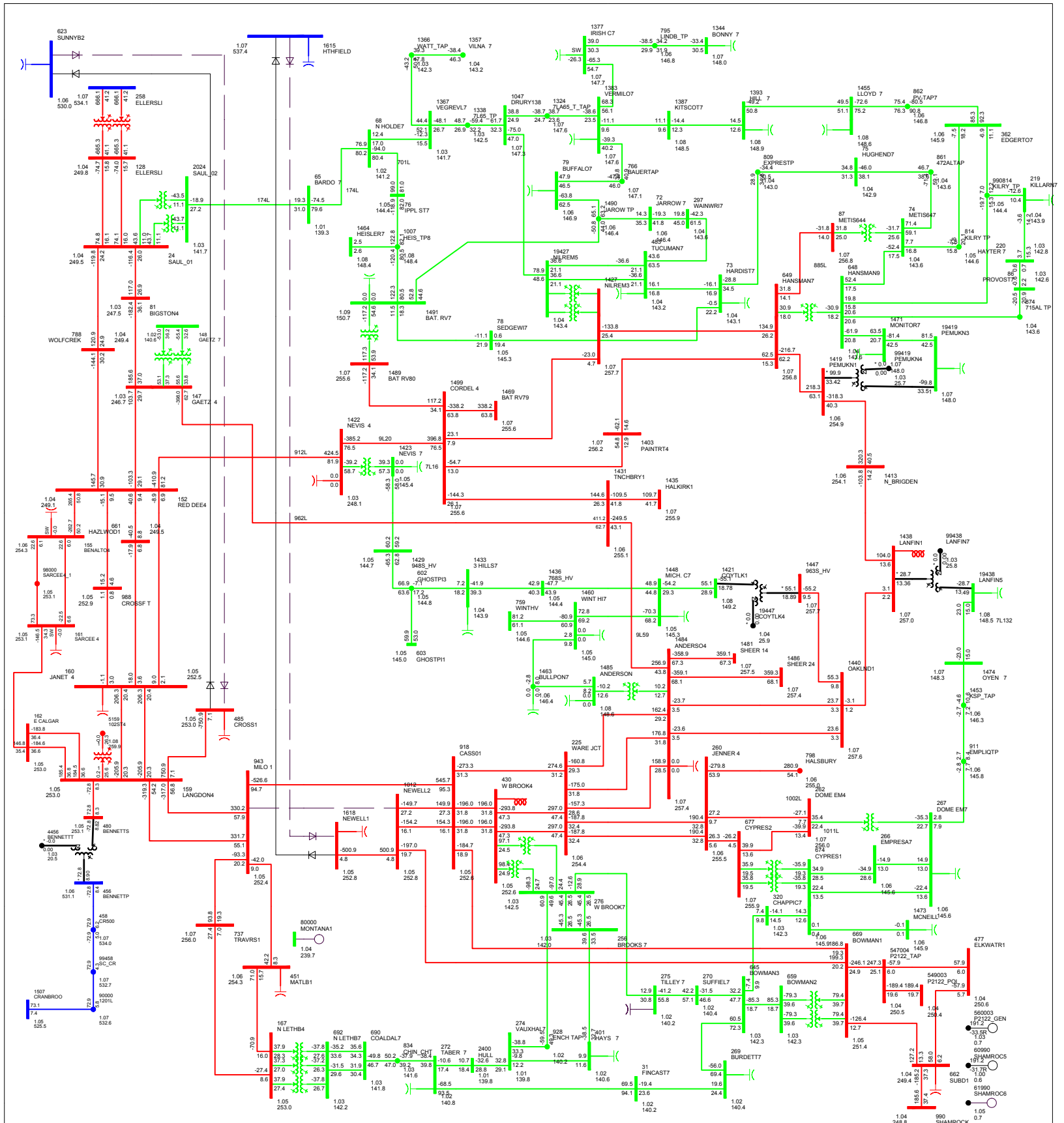
South East: 531.9 MW Central East: 483.9 MW South West: 353.0 MW

FIG. C-2 :YR:2023SP; CASE: M4; GEN SCN 1
PROJECT: CETO STAGE1
CAP: MAXIMIZE
SUN, JUL 12 2020 23:11
Contingency: EATL; Trip Action: None

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

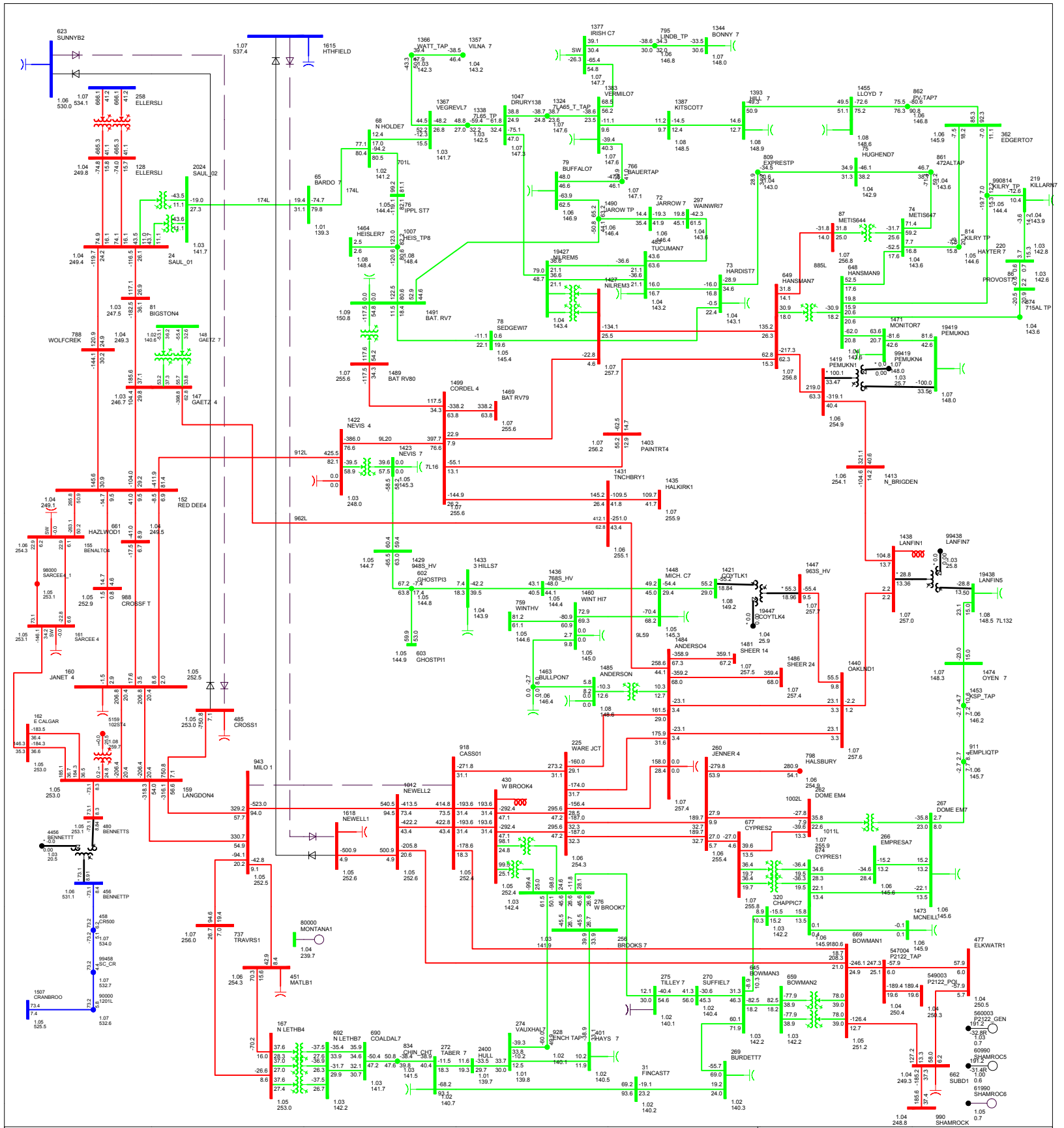
South East: 531.9 MW Central East: 483.9 MW South West: 353.0 MW

FIG. C-3 :YR:2023SP; CASE: M4; GEN SCN 1
PROJECT: CETO STAGE1
CAP: MAXIMIZE
SUN, JUL 12 2020 23:12
Contingency: 923L; Trip Action: None

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

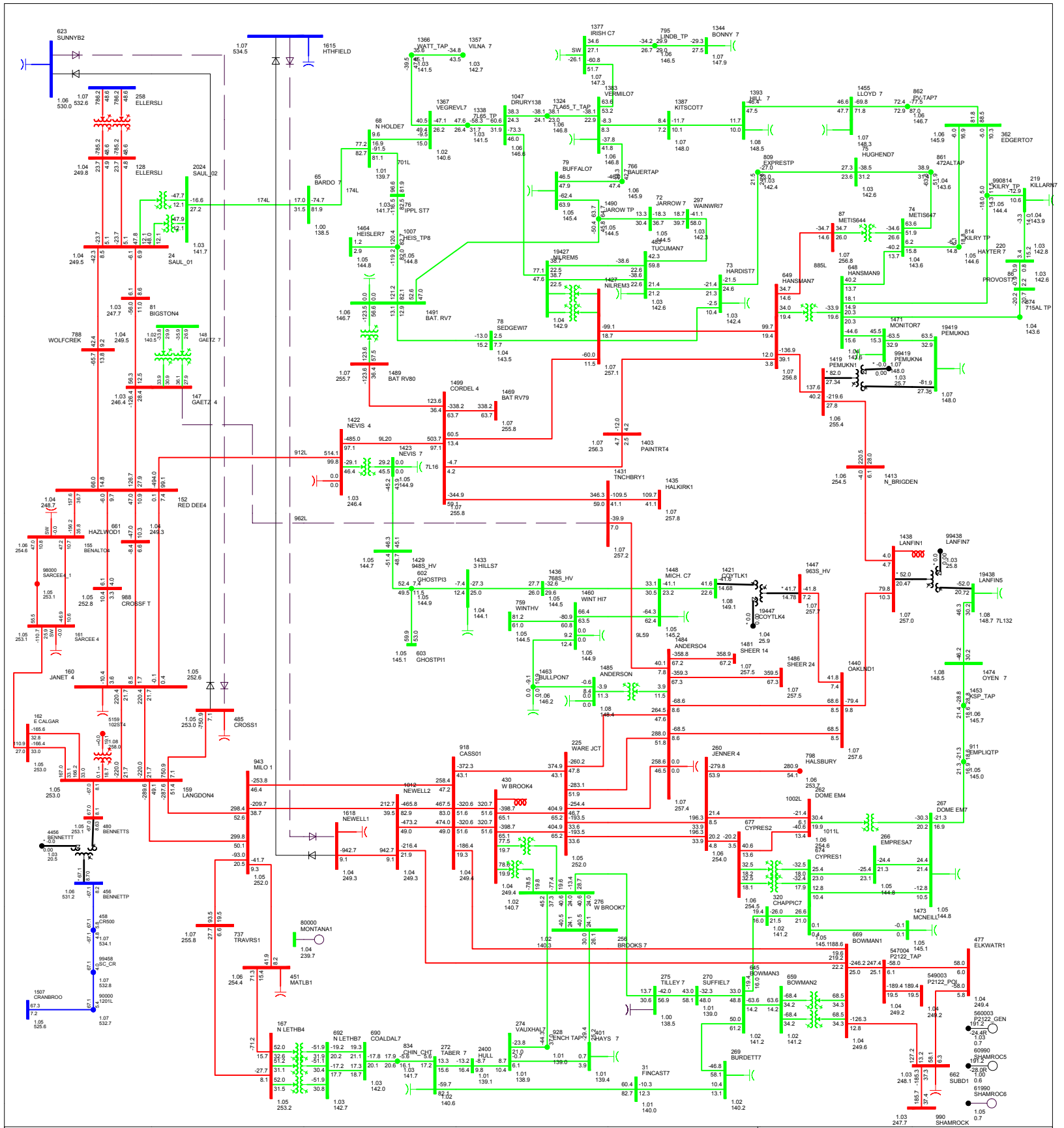
South East: 531.9 MW Central East: 483.9 MW South West: 353.0 MW

FIG. C-4 :YR:2023SP; CASE: M4; GEN SCN 1
PROJECT: CETO STAGE1
CAP: MAXIMIZE
SUN, JUL 12 2020 23:12
Contingency: 930L, Trip Action: None

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

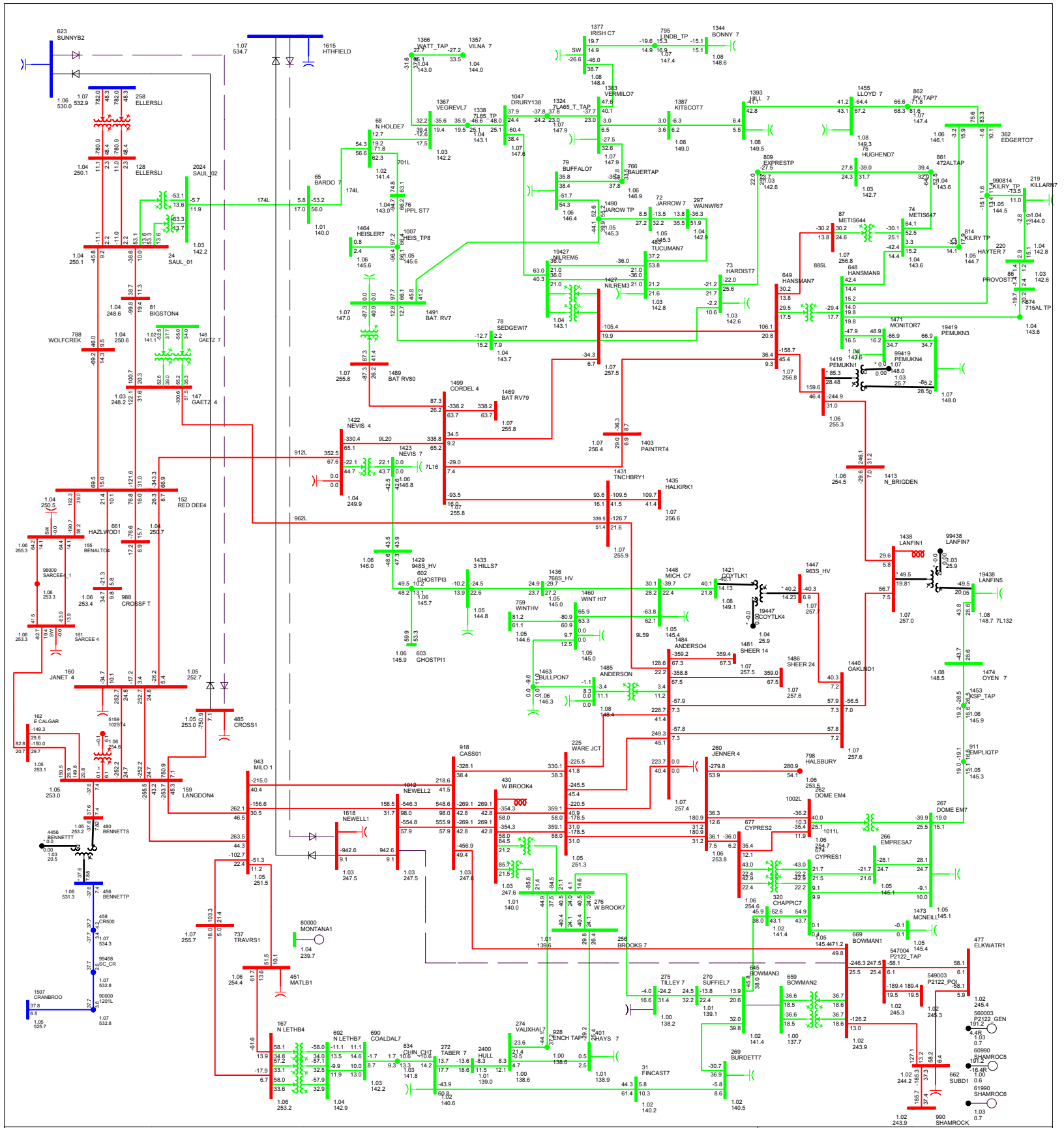
South East: 531.9 MW Central East: 483.9 MW South West: 353.0 MW

FIG. C-5 :YR:2023SP; CASE: M4; GEN SCN 1
PROJECT: CETO STAGE1
CAP: MAXIMIZE
SUN, JUL 12 2020 23:12
Contingency: 962L_8L962; Trip Action: None

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

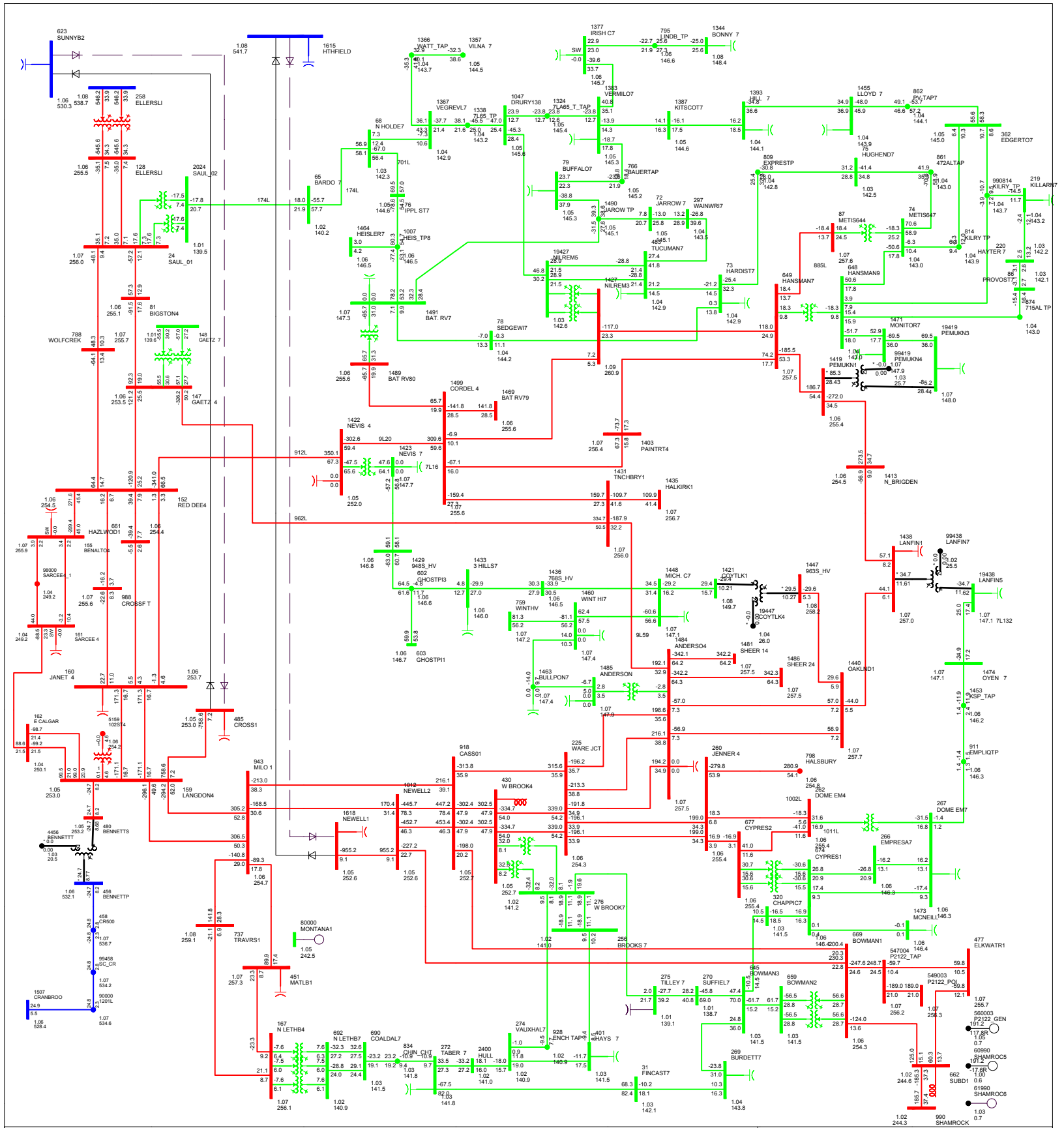
South East: 531.9 MW Central East: 483.9 MW South West: 353.0 MW

FIG. C-6 :YR:2023SP; CASE: M4; GEN SCN 1
PROJECT: CETO STAGE1
CAP: MAXIMIZE
SUN, JUL 12 2020 23:12
Contingency: 1035L Trip Action: Bowmanton 240/138kV split

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

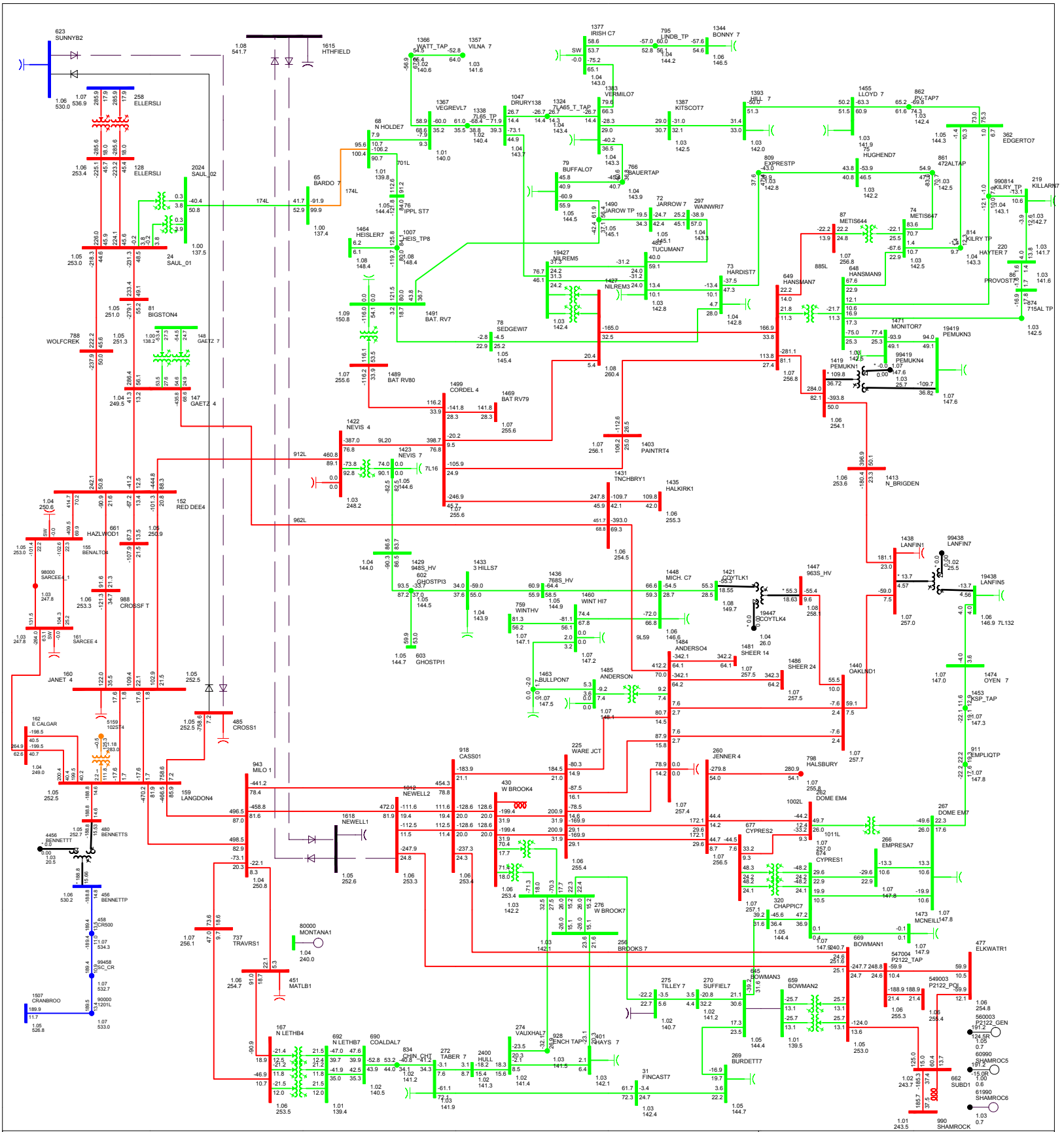
South East: 531.9 MW Central East: 483.9 MW South West: 353.0 MW

FIG. C-7 :YR:2023SL; CASE: M5; GEN SCN 1
PROJECT: CETO STAGE1
CAP: MAXIMIZE
SUN, JUL 12 2020 23:10
Contingency: Base; Trip Action: None

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

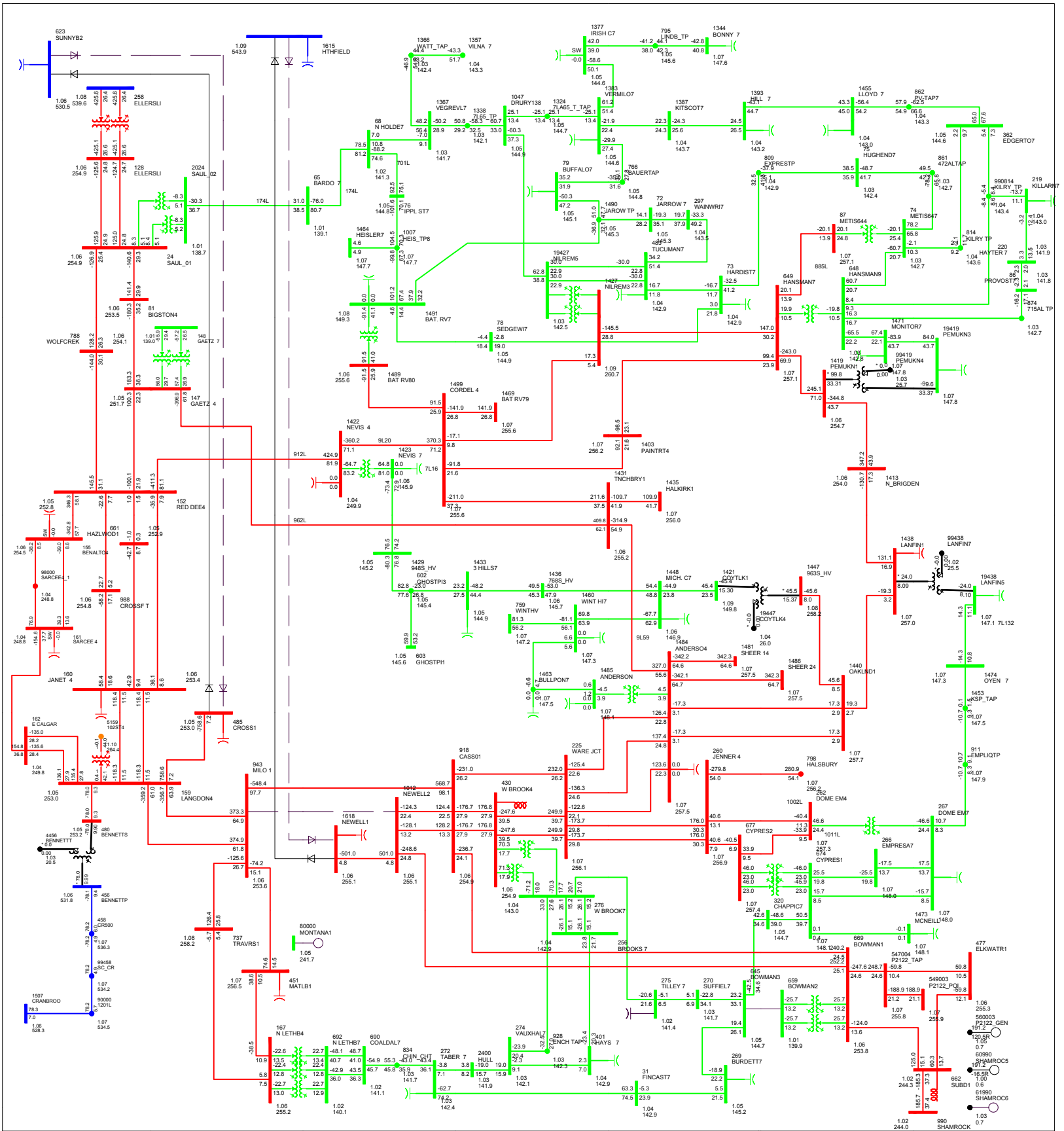
South East: 531.9 MW Central East: 483.9 MW South West: 353.0 MW

FIG. C-8 :YR:2023SL; CASE: M5; GEN SCN 1
PROJECT: CETO STAGE1
CAP: MAXIMIZE
SUN, JUL 12 2020 23:11
Contingency: EATL; Trip Action: L274 BC 138kV Tie, Bowmanton 240/138kV split

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

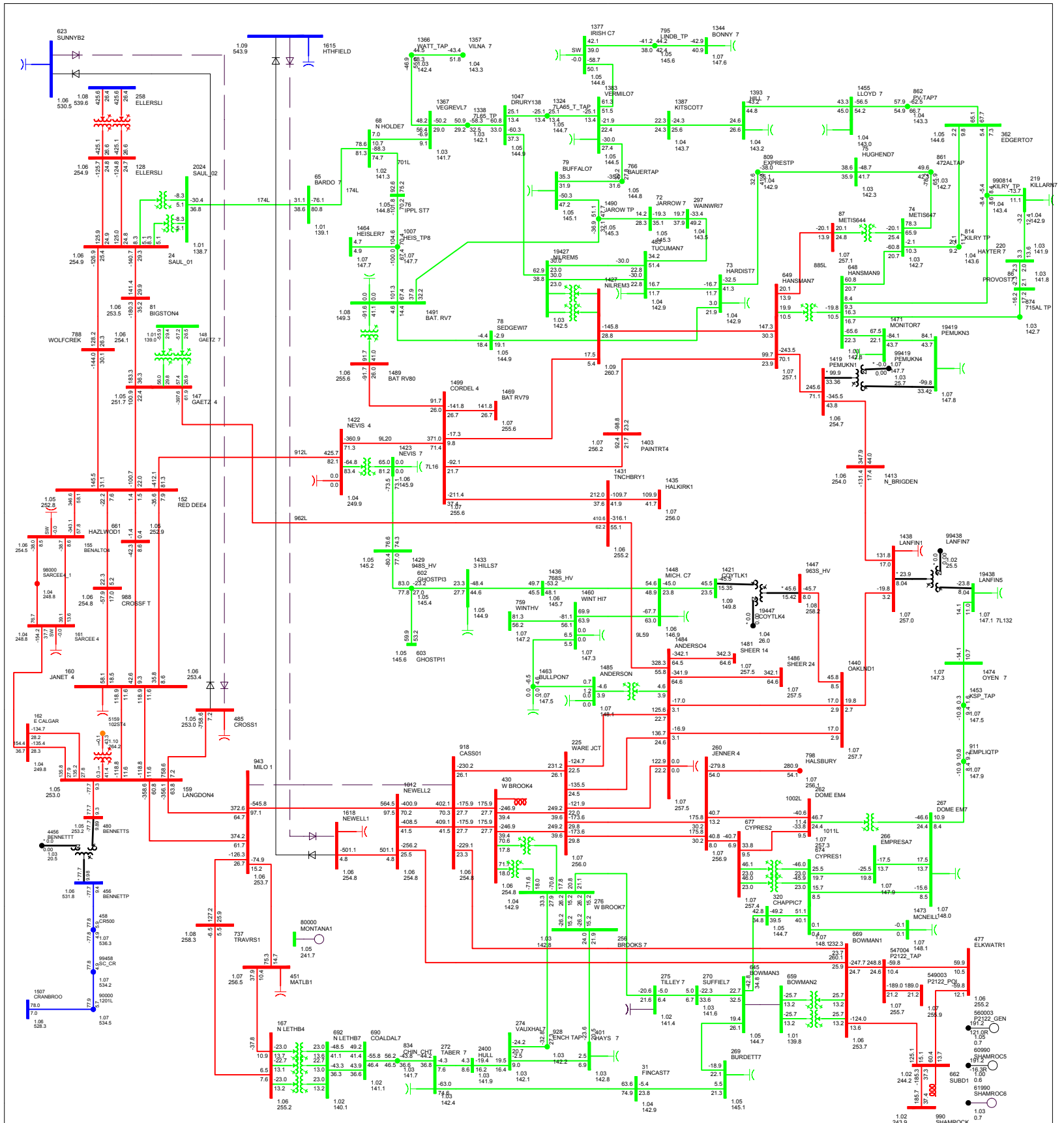
South East: 531.9 MW Central East: 483.9 MW South West: 353.0 MW

FIG. C-9 :YR:2023SL; CASE: M5; GEN SCN 1
PROJECT: CETO STAGE1
CAP: MAXIMIZE
SUN, JUL 12 2020 23:10
Contingency: 923L; Trip Action: Bowmanton 240/138kV split

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

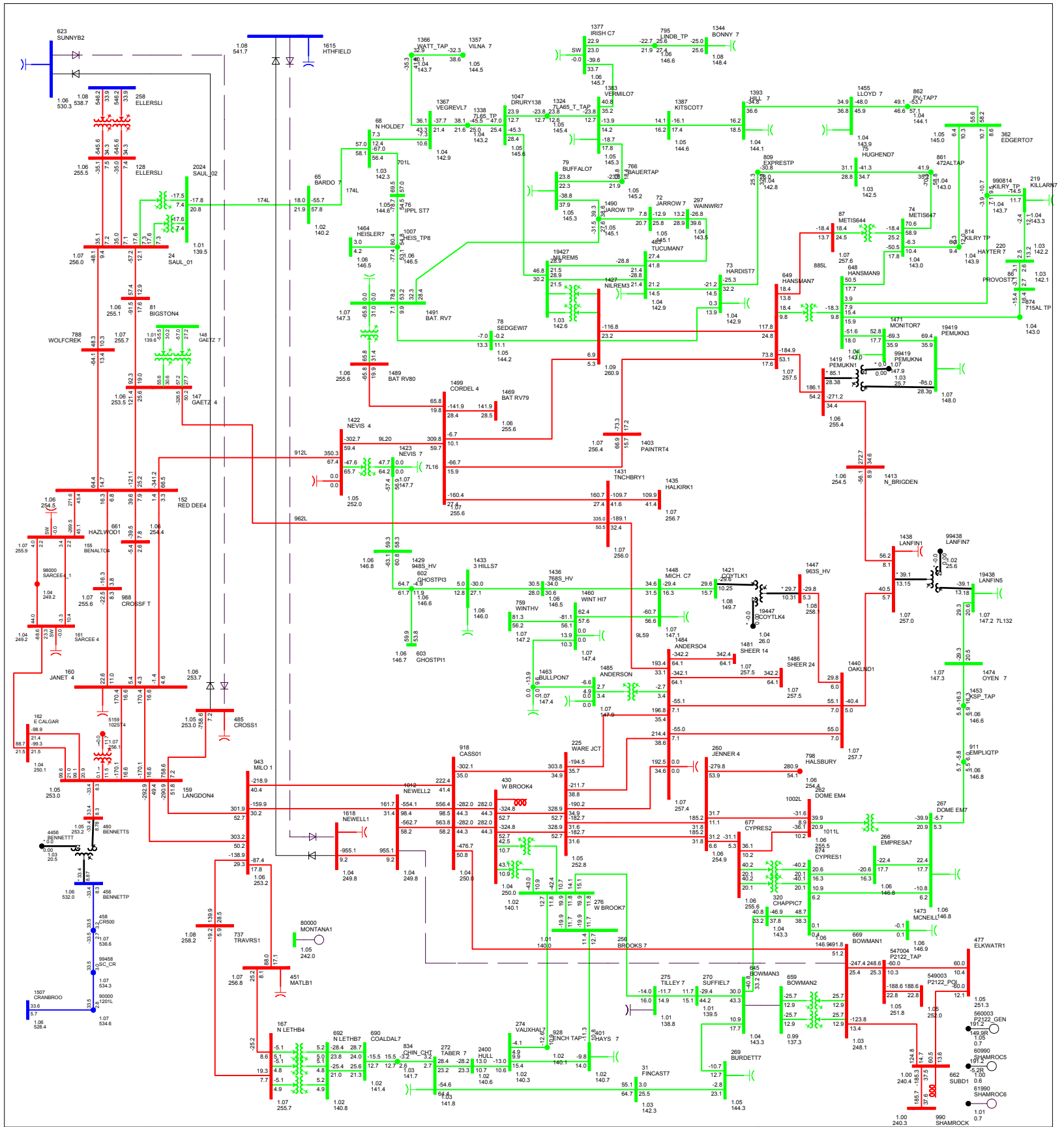
South East: 531.9 MW Central East: 483.9 MW South West: 353.0 MW

FIG. C-10 ,YR:2023SL; CASE: M5; GEN SCN 1
PROJECT: CETO STAGE1
CAP: MAXIMIZE
SUN, JUL 12 2020 23:10
Contingency: 935L, Trip Action: Bowmanton 240/138kV split

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

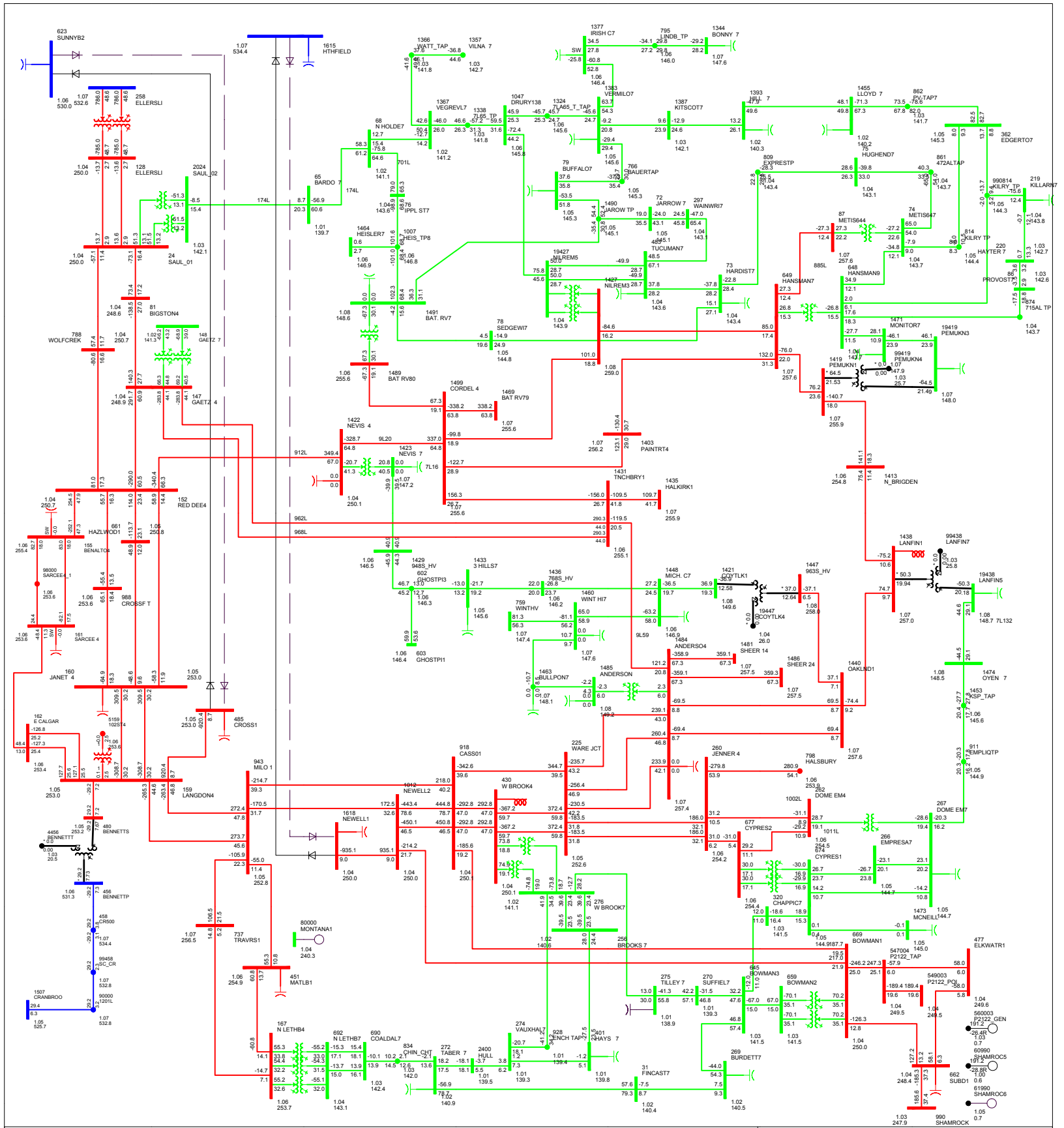
South East: 531.9 MW Central East: 483.9 MW South West: 353.0 MW

FIG. C-11 ;YR:2023SL; CASE: M5; GEN SCN 1
PROJECT: CETO STAGE1
CAP: MAXIMIZE
SUN, JUL 12 2020 23:12
Contingency: 1035L Trip Action: Bowmanton 240/138kV split

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

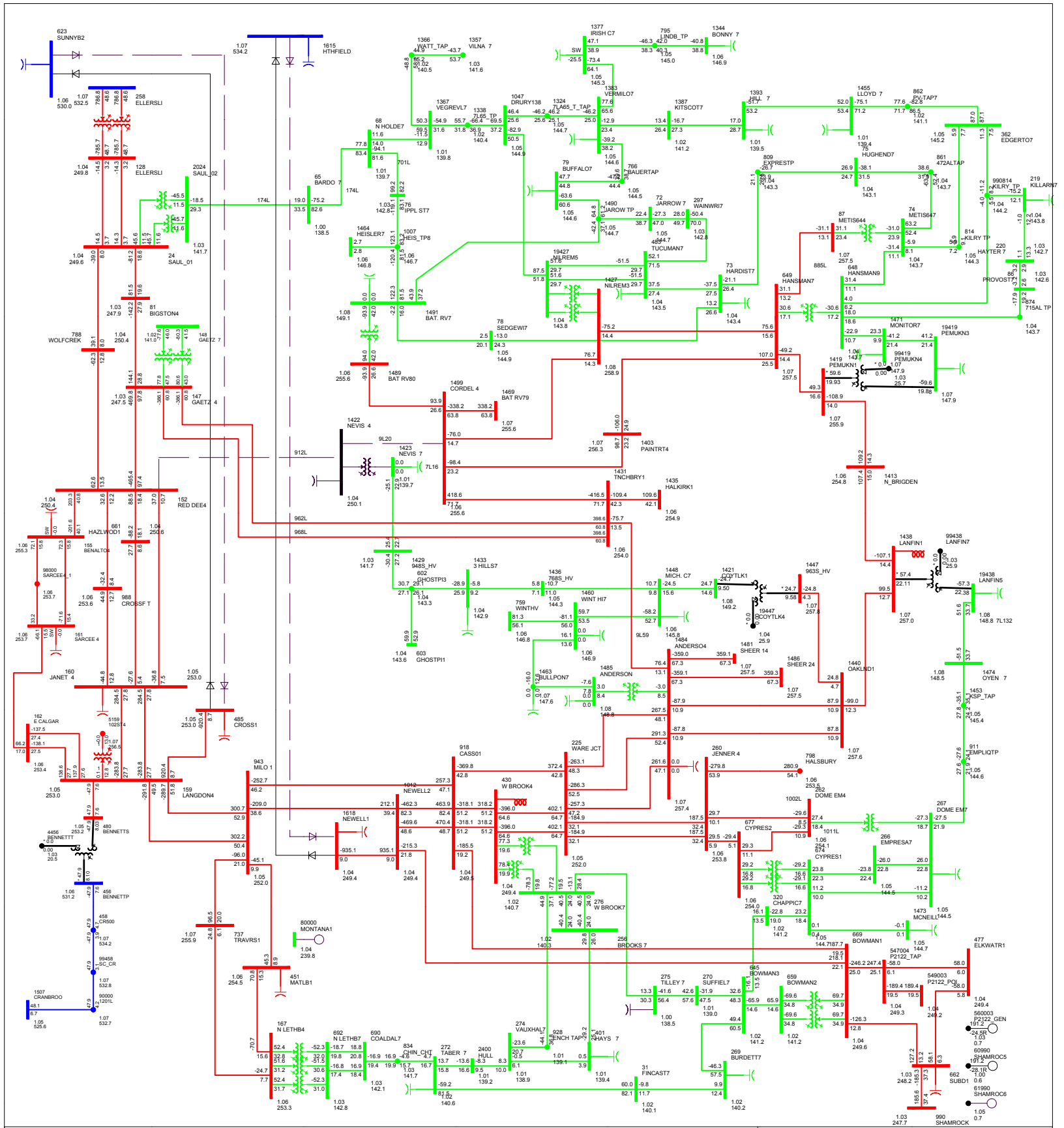
South East: 507.1 MW Central East: 788.8 MW South West: 356.0 MW

FIG. C-12 ,YR:2023SP; CASE: M4; GEN SCN 1
PROJECT: CETO STAGE1&2
CAP: MAXIMIZE
SUN, JUL 12 2020 23:13
Contingency: Base; Trip Action: None

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

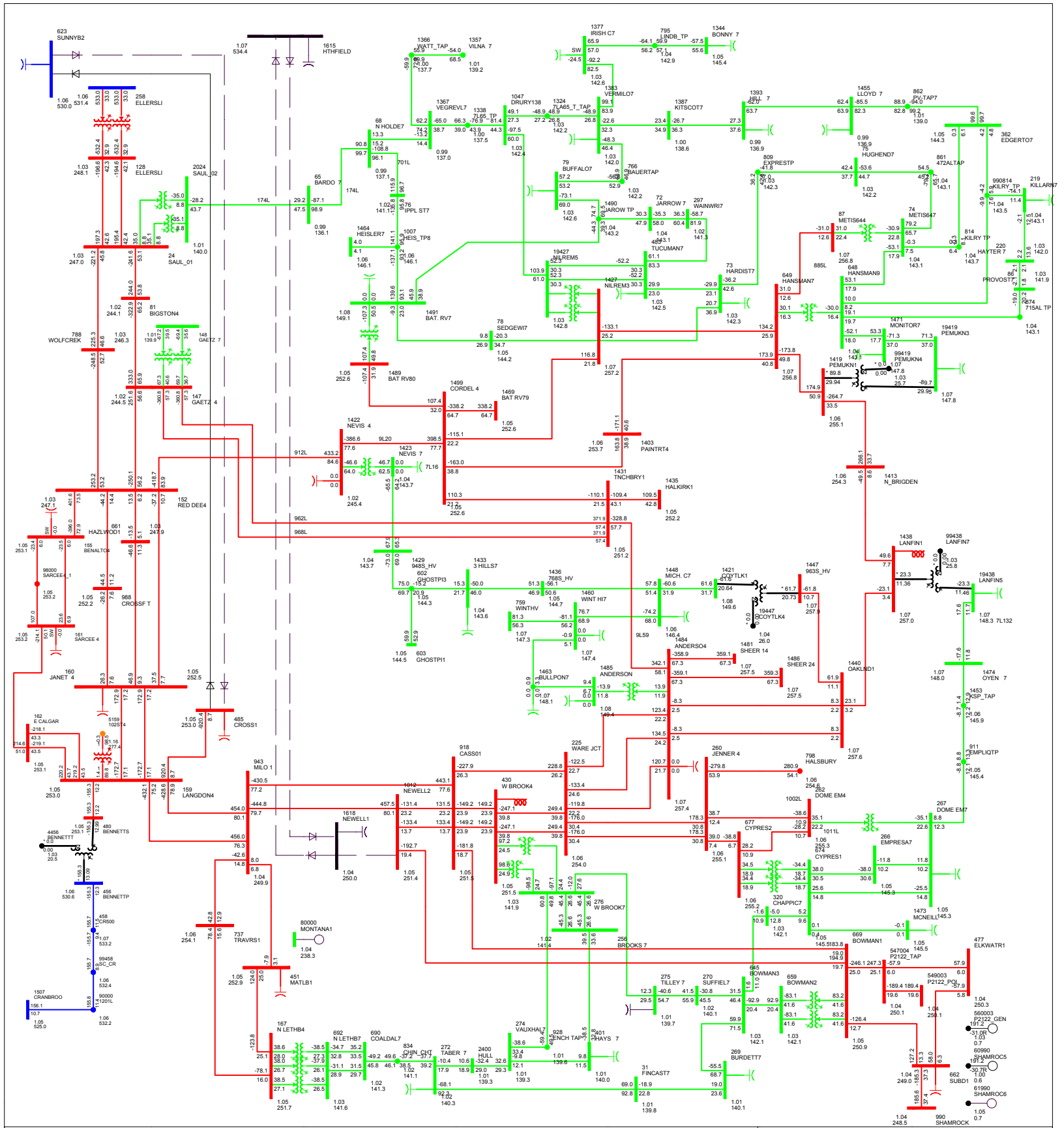
South East: 507.1 MW Central East: 788.8 MW South West: 356.0 MW

FIG. C-13 ;YR:2023SP; CASE: M4; GEN SCN 1
PROJECT: CETO STAGE1&2
CAP: MAXIMIZE
SUN, JUL 12 2020 23:16
Contingency: 7665901T; Trip Action: None

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

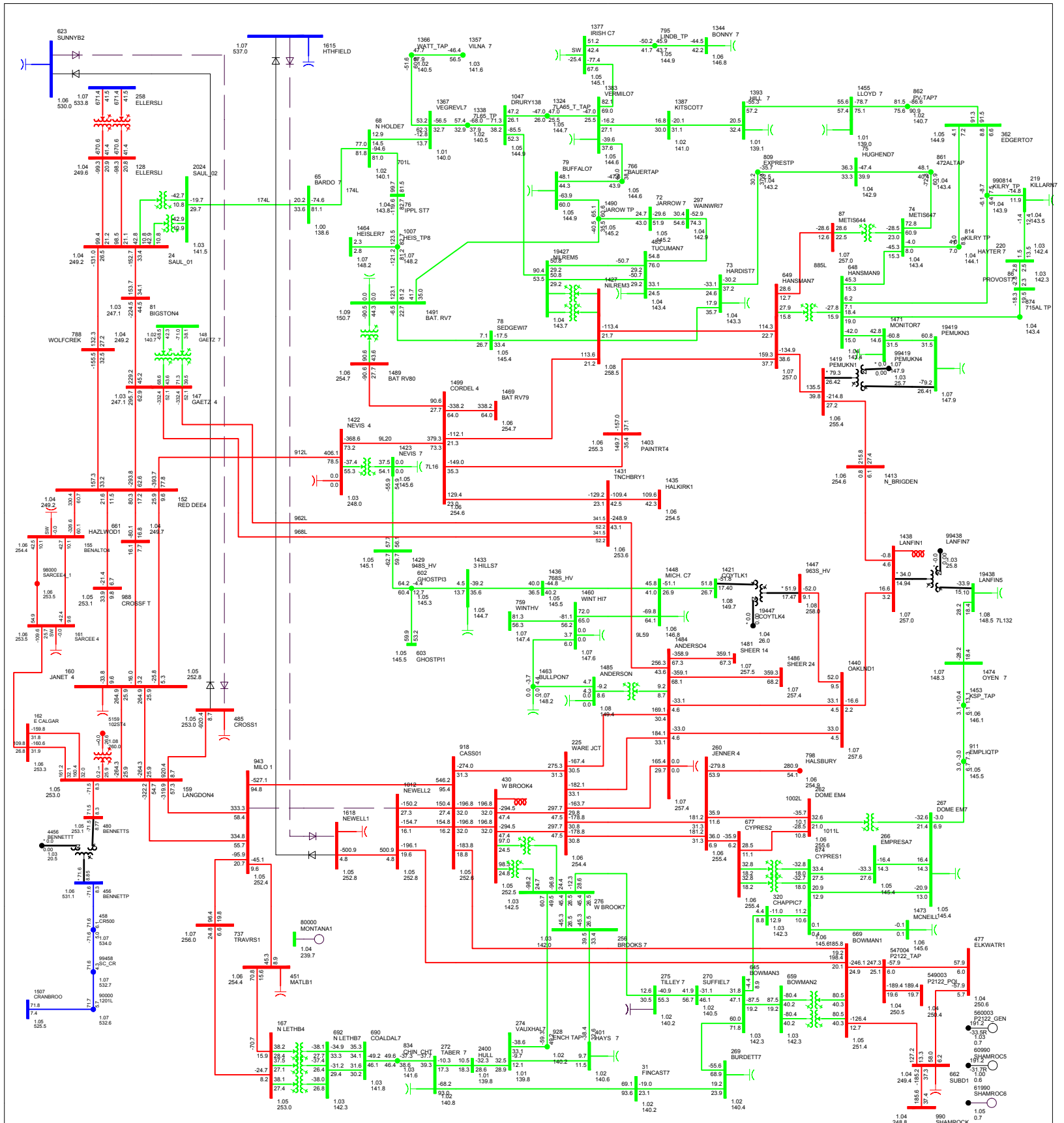
South East: 507.1 MW Central East: 788.8 MW South West: 356.0 MW

FIG. C-14 :YR:2023SP; CASE: M4; GEN SCN 1
PROJECT: CETO STAGE1&2
CAP: MAXIMIZE
SUN, JUL 12 2020 23:15
Contingency: EATL; Trip Action: None

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

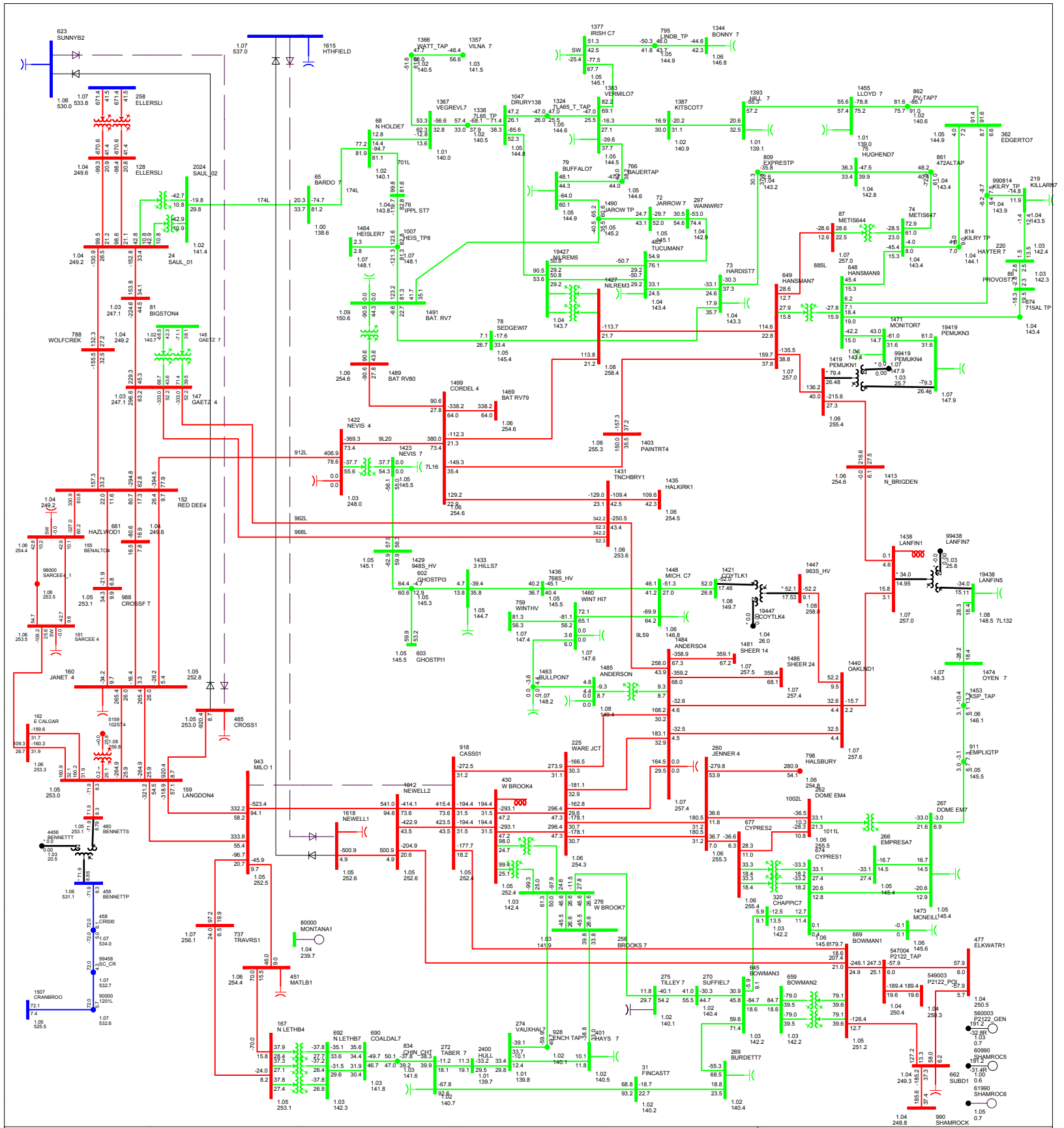
South East: 507.1 MW Central East: 788.8 MW South West: 356.0 MW

FIG. C-15 ;YR:2023SP; CASE: M4; GEN SCN 1
PROJECT: CETO STAGE1&2
CAP: MAXIMIZE
SUN, JUL 12 2020 23:19
Contingency: 923L; Trip Action: None

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

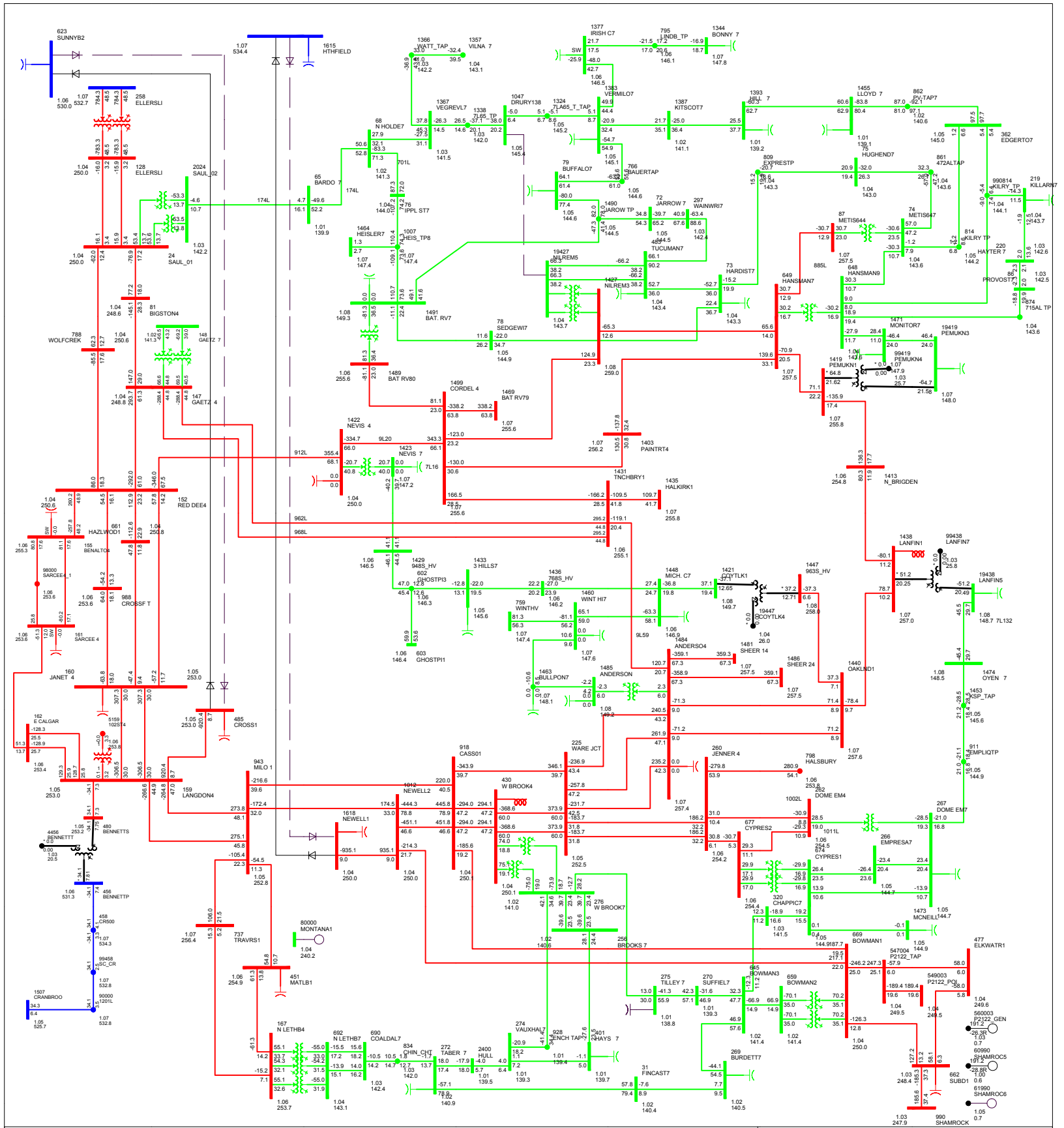
South East: 507.1 MW Central East: 788.8 MW South West: 356.0 MW

FIG. C-16 :YR:2023SP; CASE: M4; GEN SCN 1
PROJECT: CETO STAGE1&2
CAP: MAXIMIZE
SUN, JUL 12 2020 23:14
Contingency: 930L, Trip Action: None

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

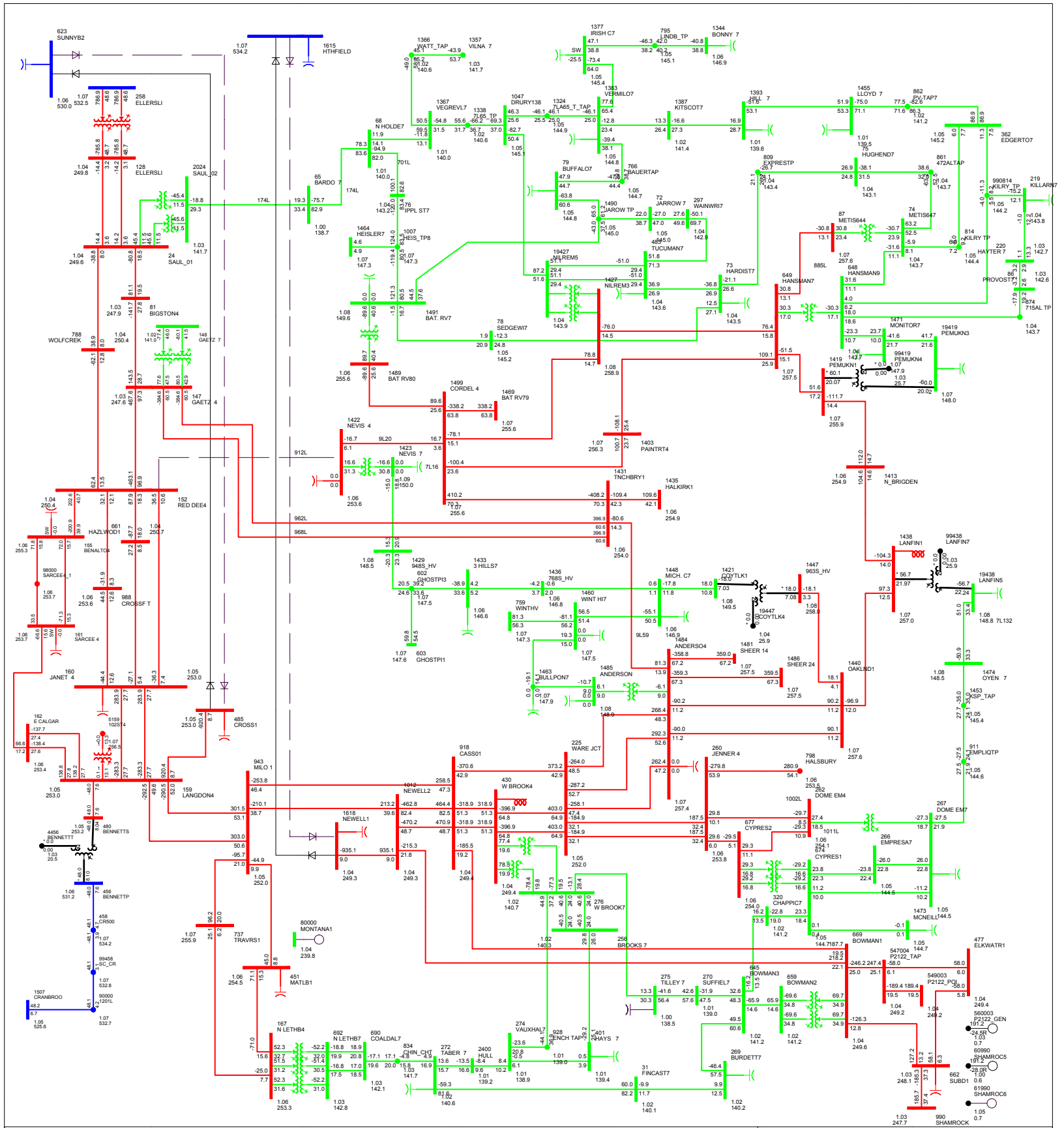
South East: 507.1 MW Central East: 788.8 MW South West: 356.0 MW

FIG. C-17 ,YR:2023SP; CASE: M4; GEN SCN 1
PROJECT: CETO STAGE1&2
CAP: MAXIMIZE
SUN, JUL 12 2020 23:14
Contingency: 7L233; Trip Action: None

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

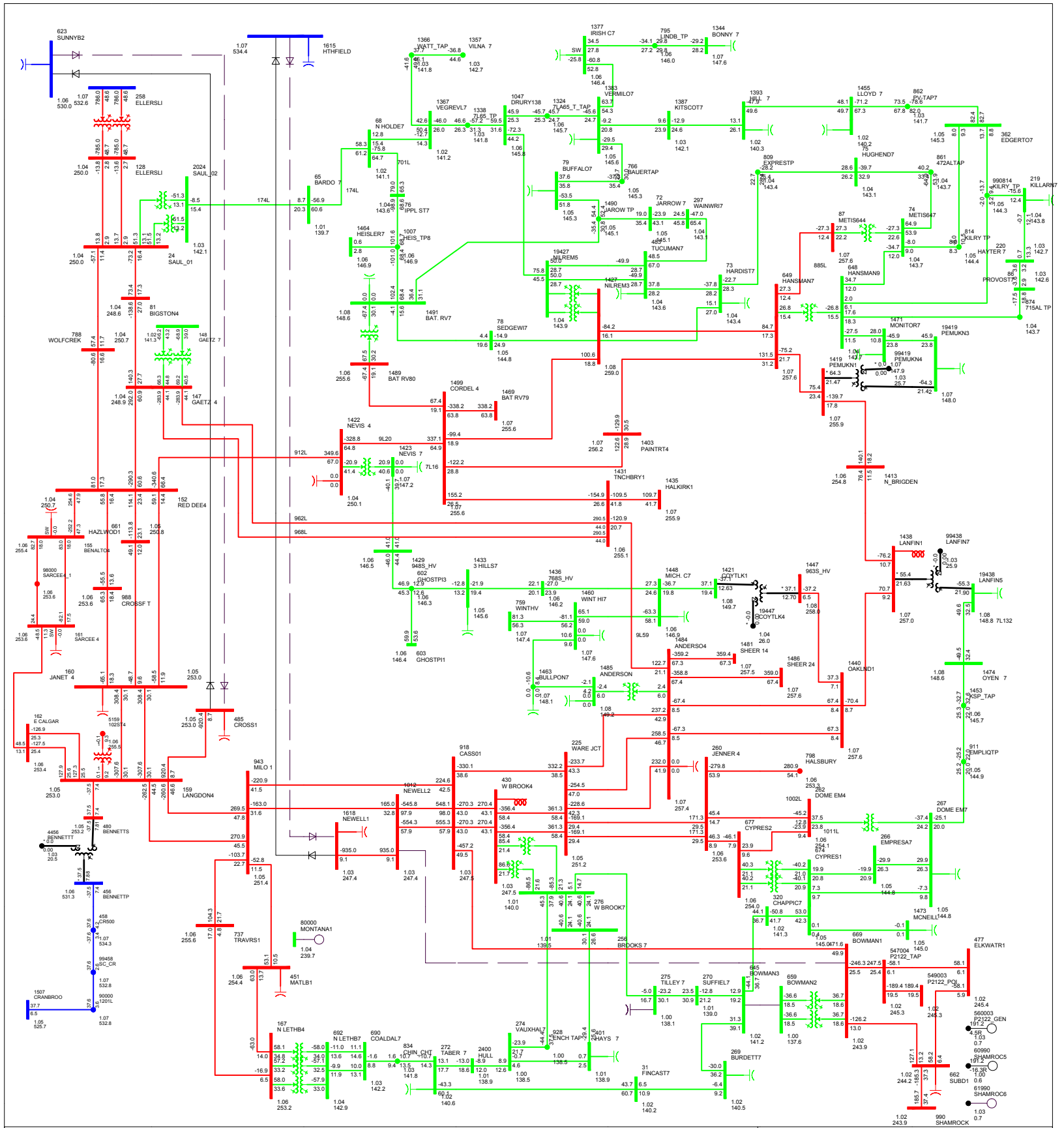
South East: 507.1 MW Central East: 788.8 MW South West: 356.0 MW

FIG. C-18 :YR:2023SP; CASE: M4; GEN SCN 1
PROJECT: CETO STAGE1&2
CAP: MAXIMIZE
SUN, JUL 12 2020 23:14
Contingency: 912L, Trip Action: None

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

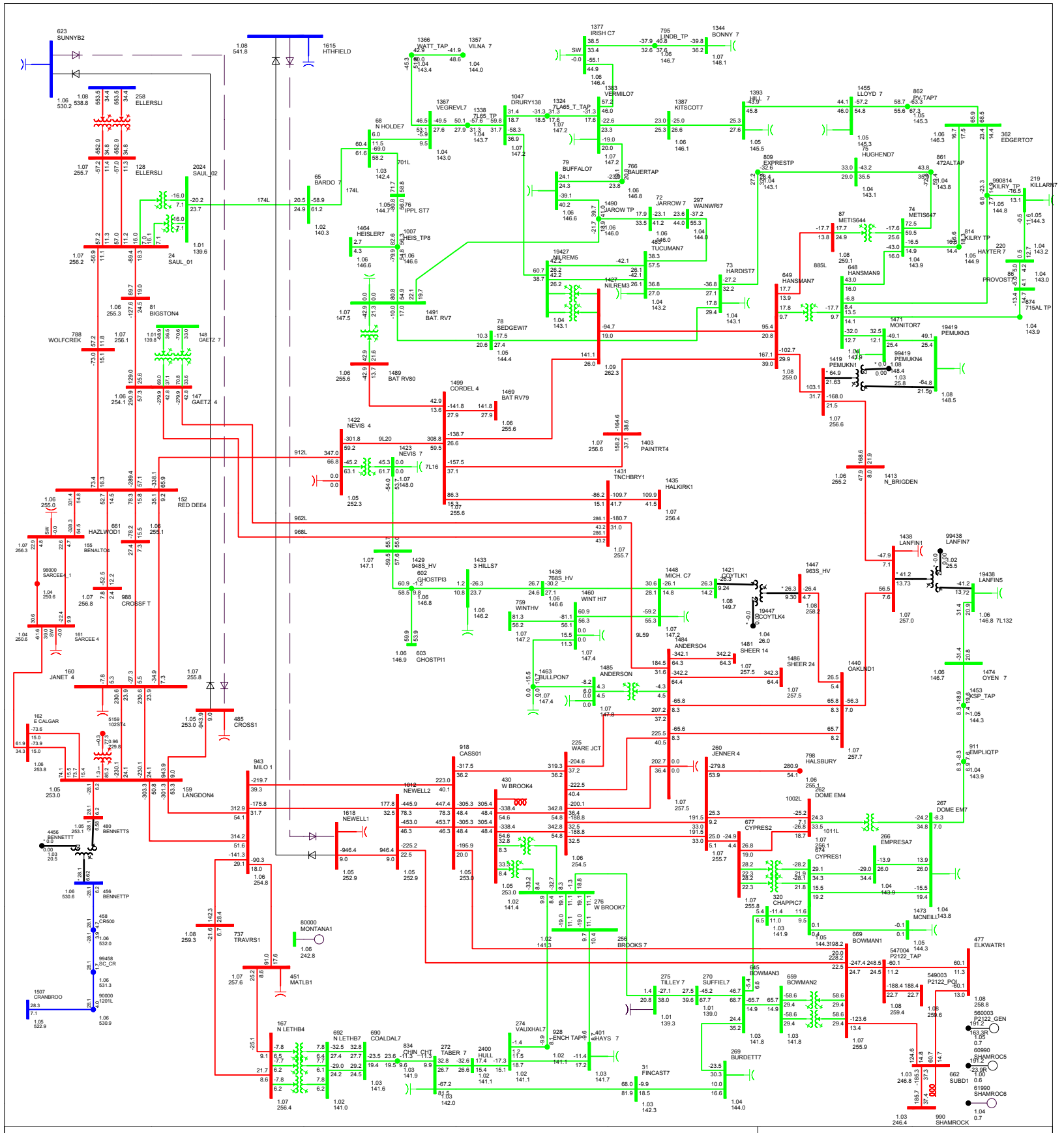
South East: 507.1 MW Central East: 788.8 MW South West: 356.0 MW

FIG. C-19 ,YR:2023SP; CASE: M4; GEN SCN 1
PROJECT: CETO STAGE1&2
CAP: MAXIMIZE
SUN, JUL 12 2020 23:13
Contingency: 1035L: Trip Action: Bowmanton 240/138kV split

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

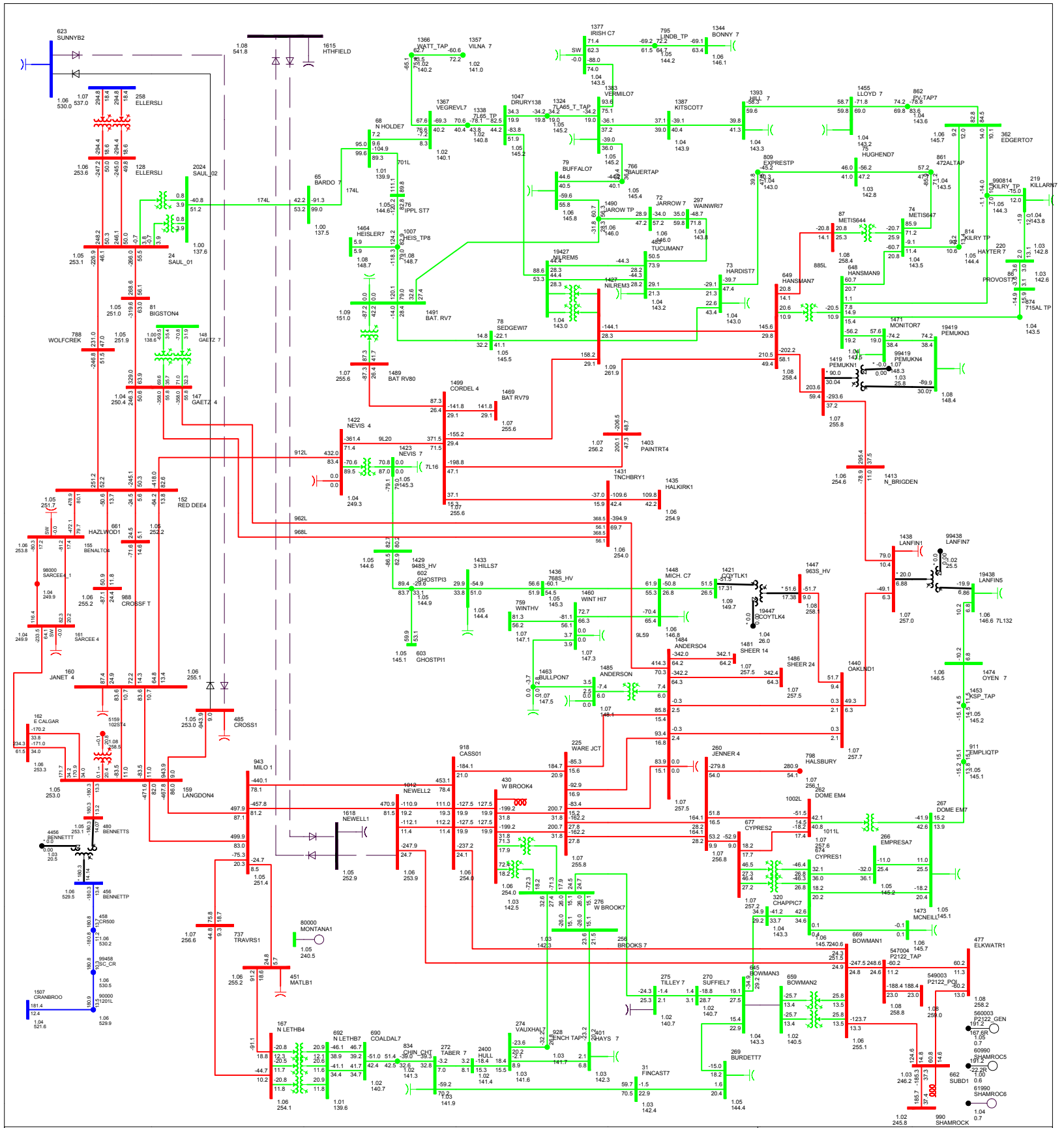
South East: 507.1 MW Central East: 788.8 MW South West: 356.0 MW

FIG. C-20 ,YR:2023SL; CASE: M5; GEN SCN 1
PROJECT: CETO STAGE1&2
CAP: MAXIMIZE
SUN, JUL 12 2020 23:13
Contingency: Base; Trip Action: None

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

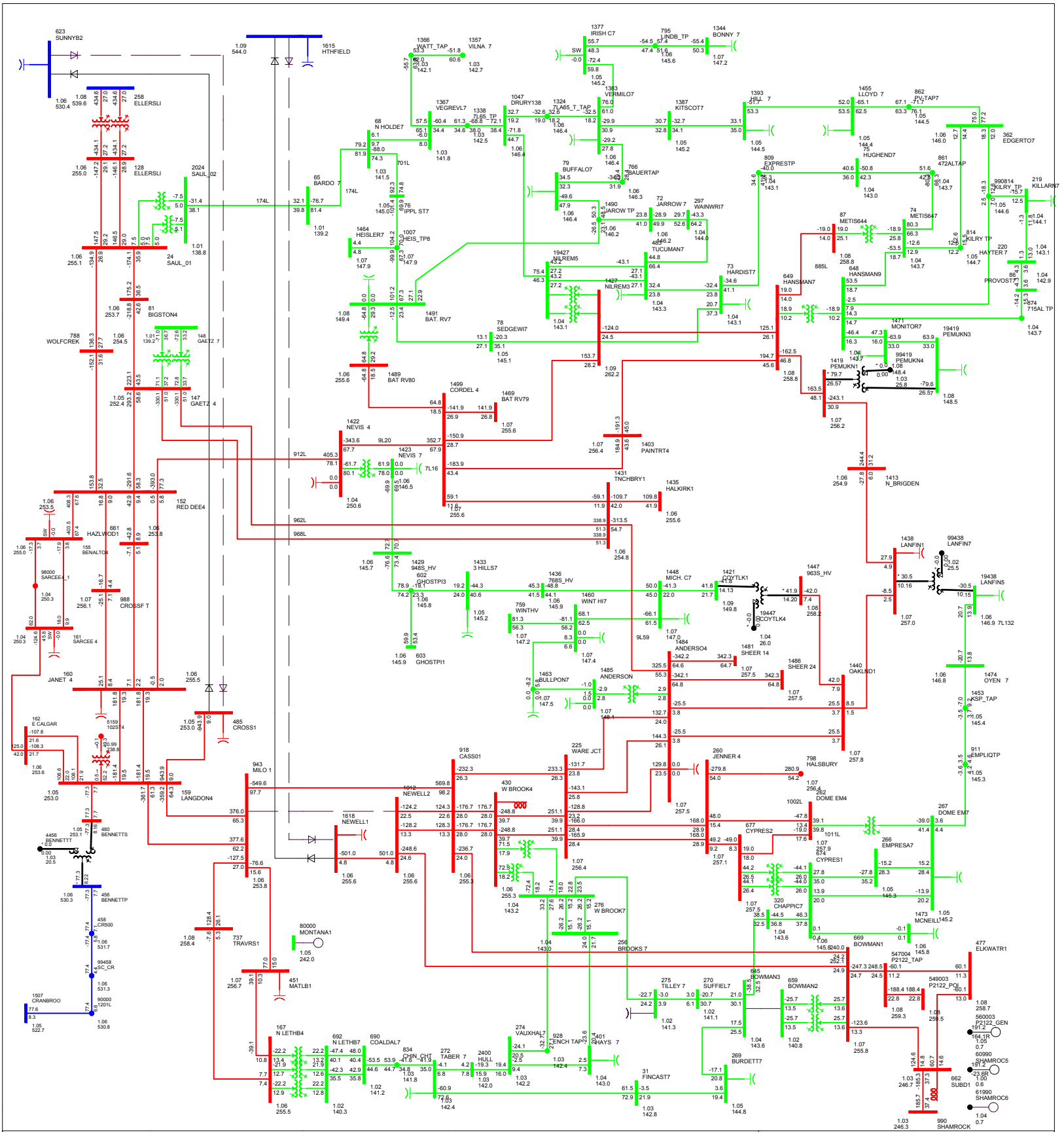
South East: 507.1 MW Central East: 788.8 MW South West: 356.0 MW

FIG. C-21 ,YR:2023SL; CASE: M5; GEN SCN 1
PROJECT: CETO STAGE1&2
CAP: MAXIMIZE
SUN, JUL 12 2020 23:13
Contingency: EATL; Trip Action: L274 BC 138kV Tie, Bowmanton 240/138kV split

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

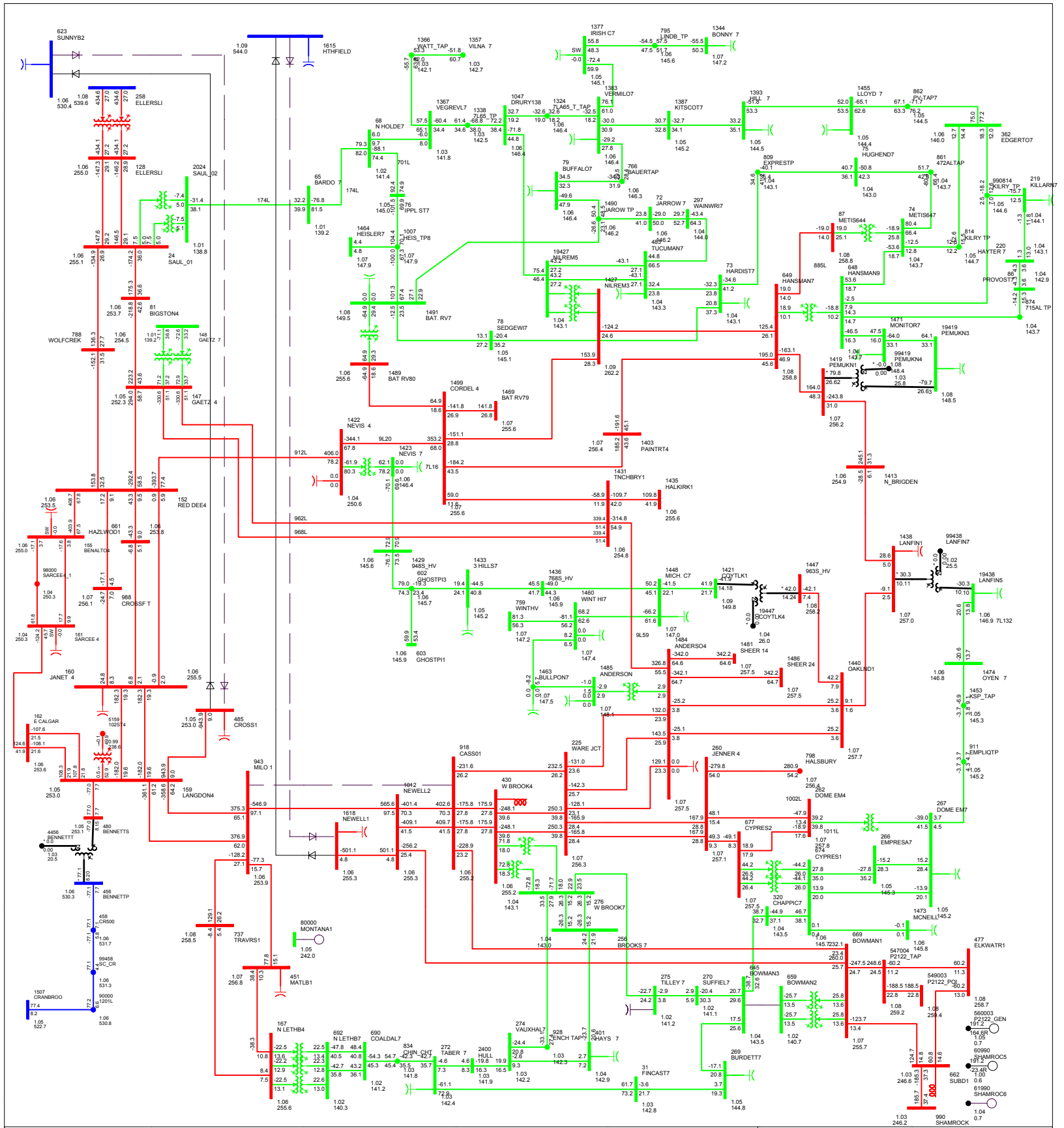
South East: 507.1 MW Central East: 788.8 MW South West: 356.0 MW

FIG. C-22 ,YR:2023SL; CASE: M5; GEN SCN 1
PROJECT: CETO STAGE1&2
CAP: MAXIMIZE
SUN, JUL 12 2020 23:13
Contingency: 923L; Trip Action: Bowmanton 240/138kV split

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

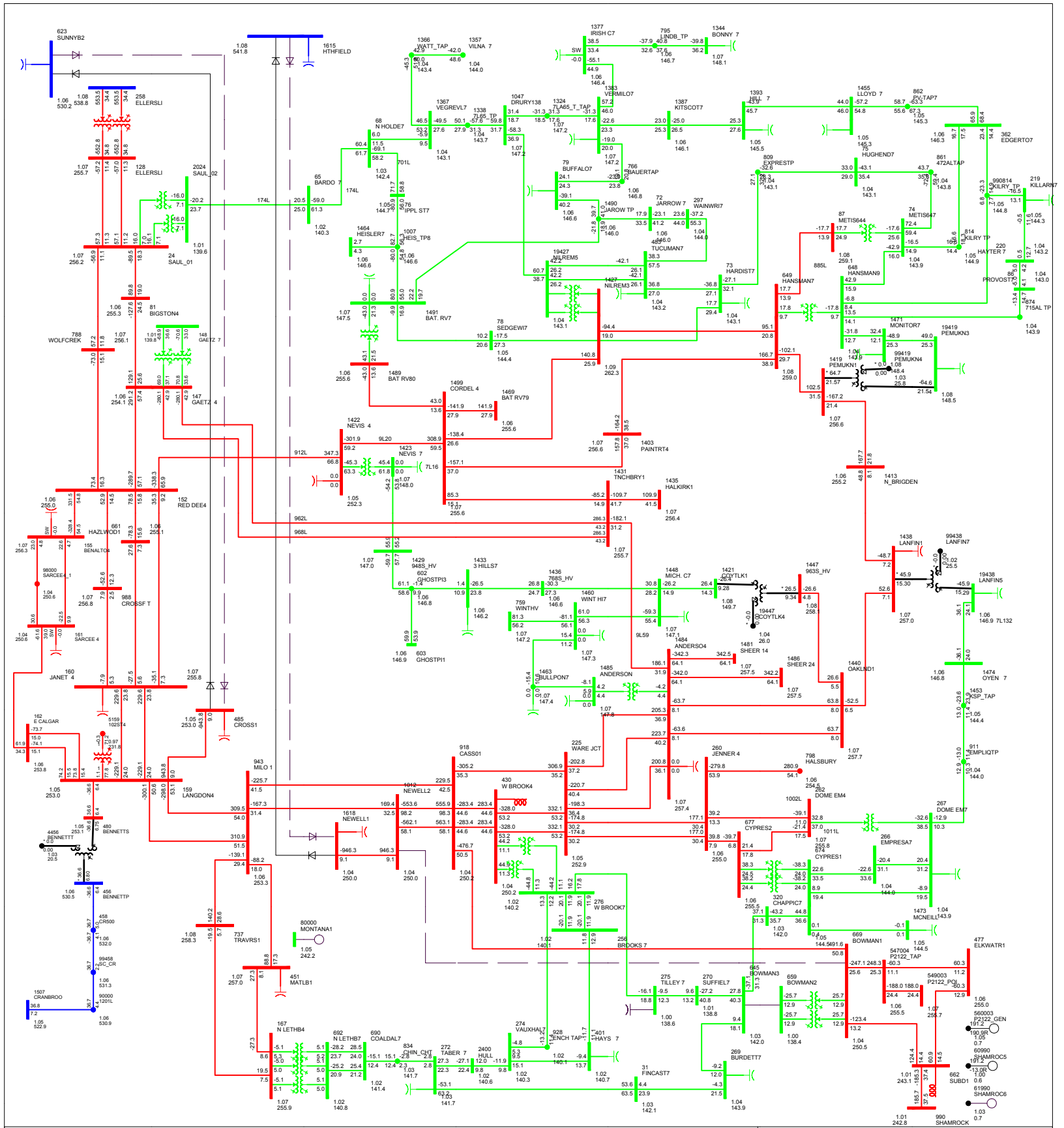
South East: 507.1 MW Central East: 788.8 MW South West: 356.0 MW

FIG. C-23 :YR:2023SL; CASE: M5; GEN SCN 1
PROJECT: CETO STAGE1&2
CAP: MAXIMIZE
SUN, JUL 12 2020 23:19
Contingency: 935L, Trip Action: Bowmanton 240/138kV split

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

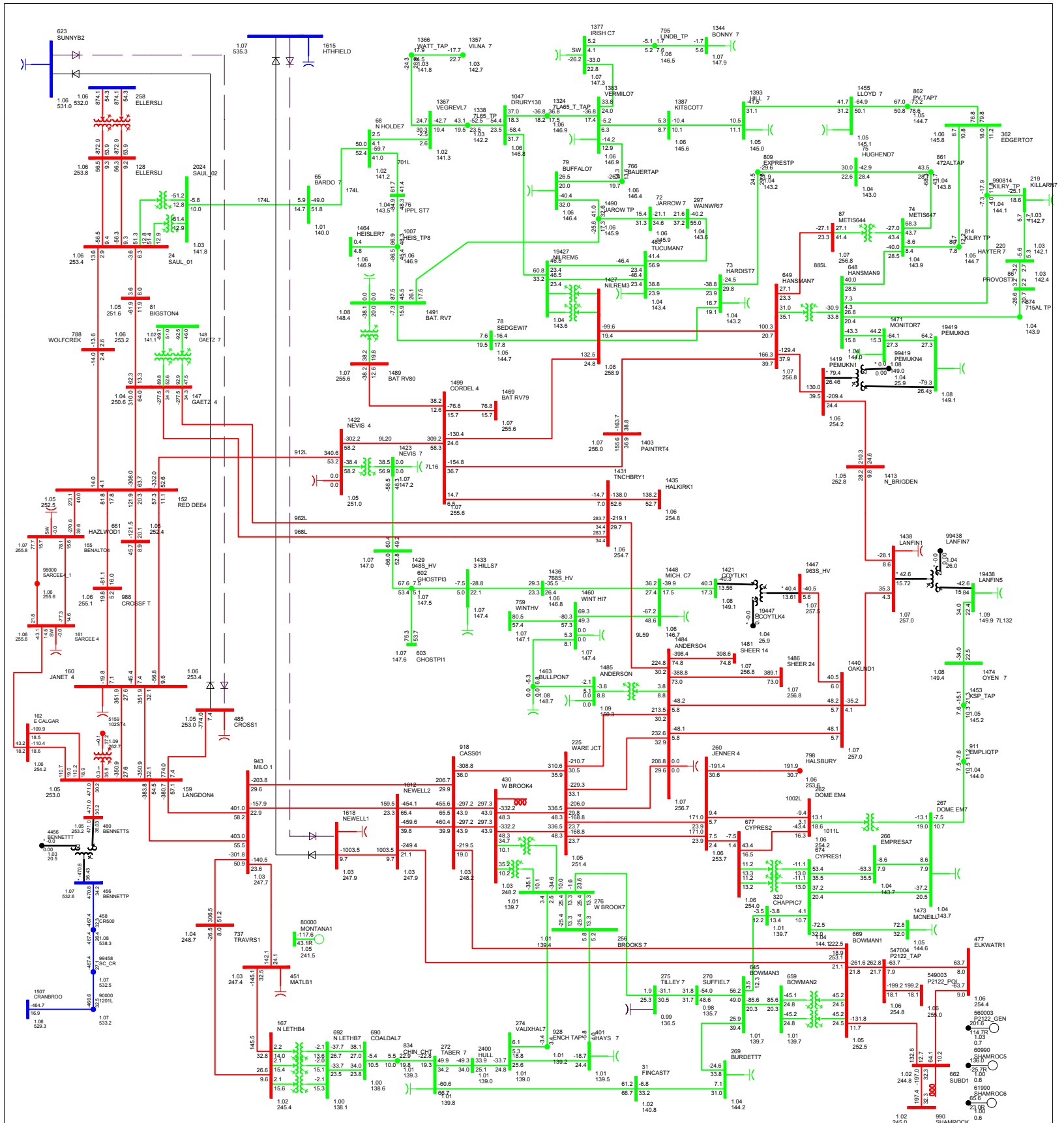
South East: 507.1 MW Central East: 788.8 MW South West: 356.0 MW

FIG. C-24 :YR:2023SL; CASE: M5; GEN SCN 1
PROJECT: CETO STAGE1&2
CAP: MAXIMIZE
SUN, JUL 12 2020 23:12
Contingency: 1035L Trip Action: Bowmanton 240/138kV split

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

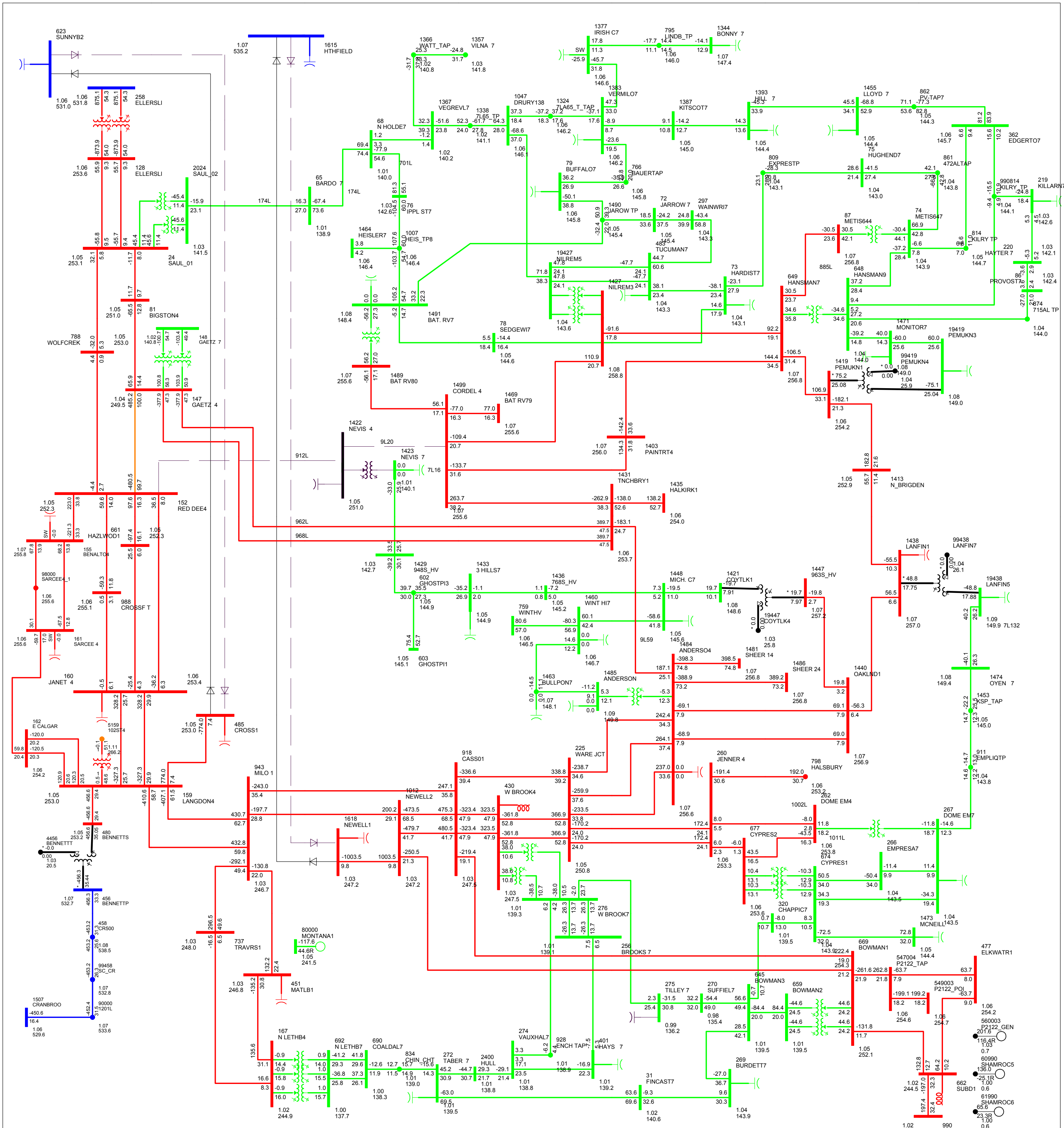
South East: 507.1 MW Central East: 788.8 MW South West: 356.0 MW

FIG. C-25 :YR:2023W; CASE: M8; GEN SCN 1
PROJECT: CETO STAGE1&2
CAP: MAXIMIZE
SUN, JUL 12 2020 23:12
Contingency: Base; Trip Action: None

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading


623 SUNNYB2
1615 HTHFIELD
258 ELLERSLI
128 ELLERSLI
2024 SAUL_02
24 SAUL_01
65 BARDO 7
76 IPPL ST7
1464 HEISLER7
1007 HEIS_TP8
1491 BAT. RV7
1489 BAT RV80
81 BIGSTON4
788 WOLFCREK
148 GAETZ 7
147 GAETZ 4
152 RED DEE4
661 HAZLWOD1
155 BENALTO4
98000 SARCEE4_1
161 SARCEE 4
988 CROSSF T
160 JANET 4
162 E CALGAR
5159 102S14
159 LANGDON4
485 CROSS1
4456 BENNETTT
480 BENNETTS
456 BENNETTP
458 CR500
99458 SC_CR
1507 CRANBROO
90000 1201L
1366 WATT_TAP
1357 VILNA 7
68 N HOLDE7
1367 VEGREVL7
1338 7L65_TP
1047 DRURY138
1324 7LA65_T_TAP
1377 IRISH C7
795 LINDB_TP
1344 BONNY 7
1383 VERMILO7
1387 KITSCOT7
1393 HILL 7
1455 LLOYD 7
862 PV_TAP7
362 EDGERTO7
75 HUGHEND7
809 EXPRESTP
861 472ALTAP
990814 KILRY_TP
219 KILLARN7
79 BUFFALO7
766 BAUERTAP
72 JARROW 7
1490 JAROW TP
297 WAINWRI7
87 METIS644
74 METIS647
814 KILRY TP
220 HAYTER 7
483 TUCUMAN7
19427 NILREM5
1427 NILREM3
73 HARDIST7
649 HANSMAN7
648 HANSMAN9
86 PROVOST7
674 715AL TP
78 SEDGEWI7
1471 MONITOR7
19419 PEMUKN3
99419 PEMUKN4
1419 PEMUKN1
1499 CORDEL 4
1469 BAT RV79
1422 NEVIS 4
1423 NEVIS 7
7L16
9L20
912L
962L
968L
1403 PAINTRT4
1413 N_BRIGDEN
1431 TNCHBRY1
1435 HALKIRK1
1438 LANFIN1
99438 LANFIN7
19438 LANFIN5
1429 948S_HV
1433 3 HILLS7
602 GHOSTPI3
603 GHOSTPI1
1436 768S_HV
1448 MICH. C7
1421 COYTLK1
1447 963S_HV
19447 COYTLK4
1460 WINT HI7
759 WINTHV
1484 ANDERSO4
1481 SHEER 14
1486 SHEER 24
1440 OAKLND1
1474 OYEN 7
1453 KSP_TAP
1463 BULLPON7
1485 ANDERSON
225 WARE JCT
918 CASS01
260 JENNER 4
798 HALSBURY
262 DOME EM4
267 DOME EM7
911 EMPLIQTP
943 MILO 1
1012 NEWELL2
1618 NEWELL1
430 W BROOK4
677 CYPRESS2
1011L
266 EMPRESA7
674 CYPRES1
320 CHAPPIC7
276 W BROOK7
256 BROOKS 7
737 TRAVRS1
80000 MONTANA1
451 MATLB1
1473 MCNEILL
669 BOWMAN1
477 ELKWATR1
547004 P2122_TAP
549003 P2122_POI
560003 P2122_GEN
60990 SHAMROC5
61990 SHAMROC6
662 SUBD1
990 SHAMROCK
645 BOWMAN3
659 BOWMAN2
275 TILLEY 7
270 SUFFIEL7
269 BURDETT7
167 N LETHB4
692 N LETHB7
690 COALDAL7
834 CHIN_CHT
272 TABER 7
2400 HULL
274 VAUXHAL7
928 ENCH TAP
401 HAYS 7
31 FINCAST7

P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

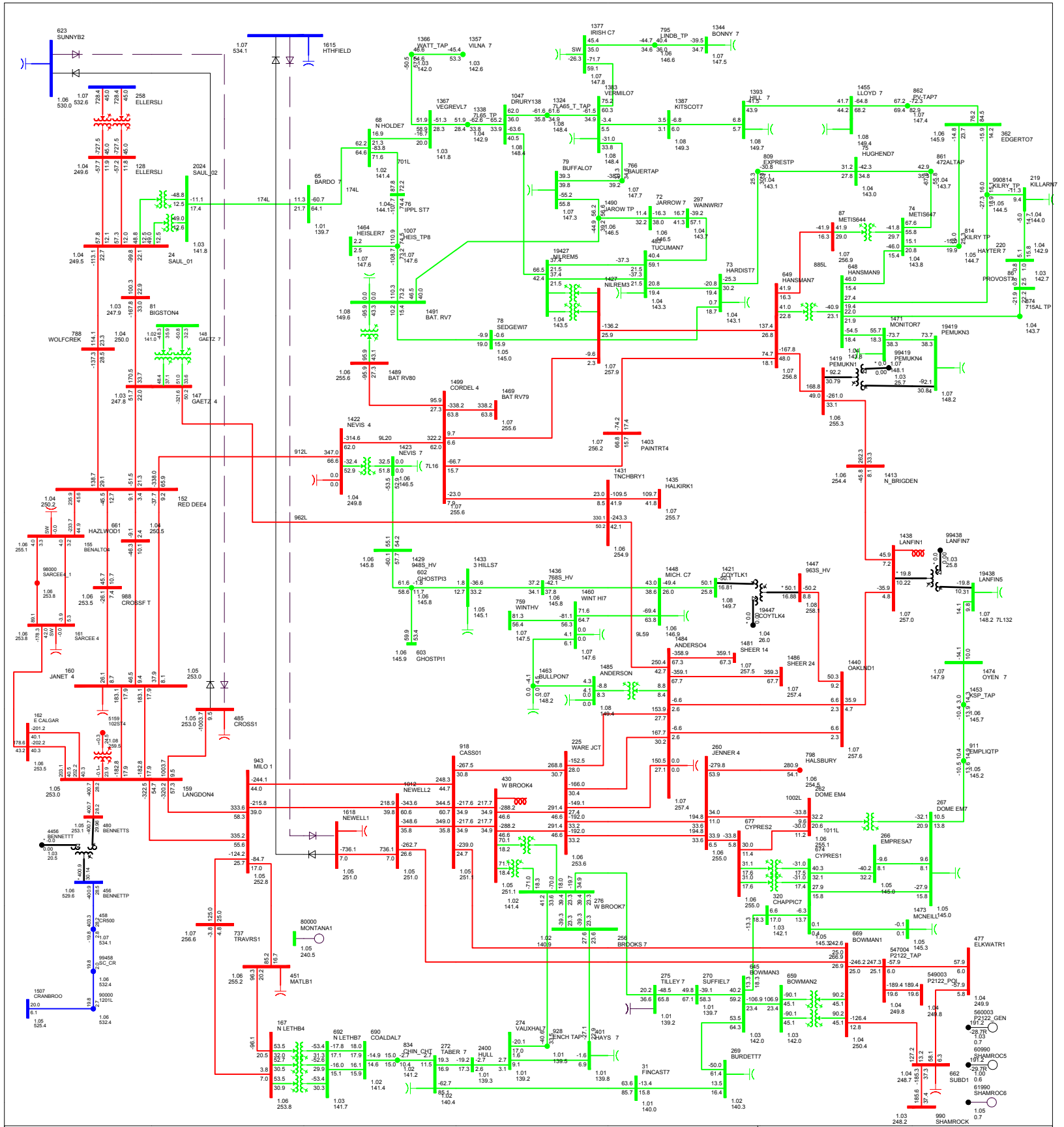
South East: 507.1 MW Central East: 788.8 MW South West: 356.0 MW

FIG. C-26 ;YR-2023W; CASE: M8; GEN SCN 1
PROJECT: CETO STAGE1&2
CAP: MAXIMIZE
SUN, JUL 12 2020 23:13
Contingency: 766S901T; Trip Action: None

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

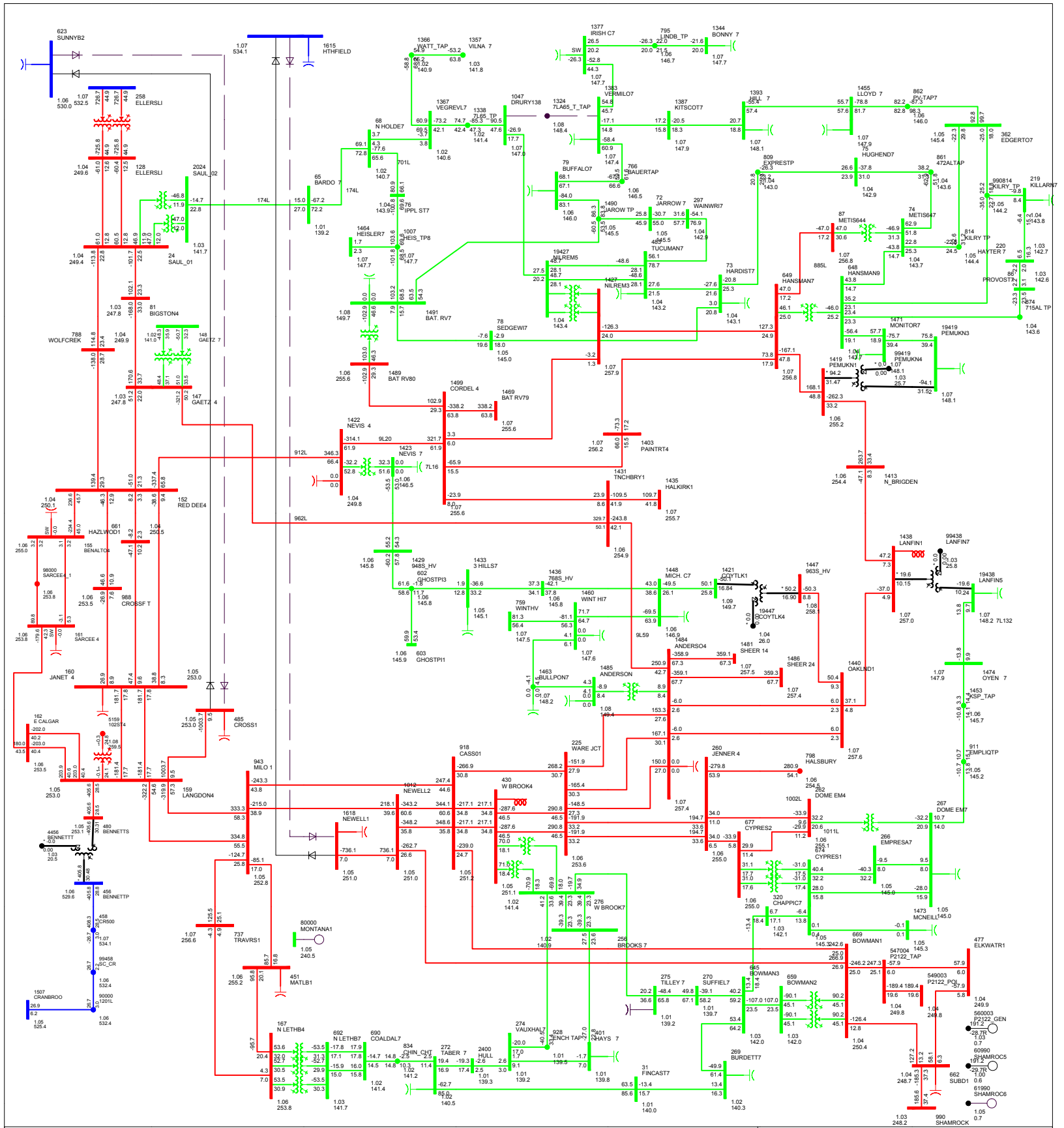
South East: 674.6 MW Central East: 275.6 MW South West: 936.2 MW

FIG. C-27 _YR:2023SP; CASE: M4; GEN SCN 1
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1
CAP: MAXIMIZE
SUN, JUL 12 2020 23:01
Contingency: Base; Trip Action: L274 BC 138kV Tie

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

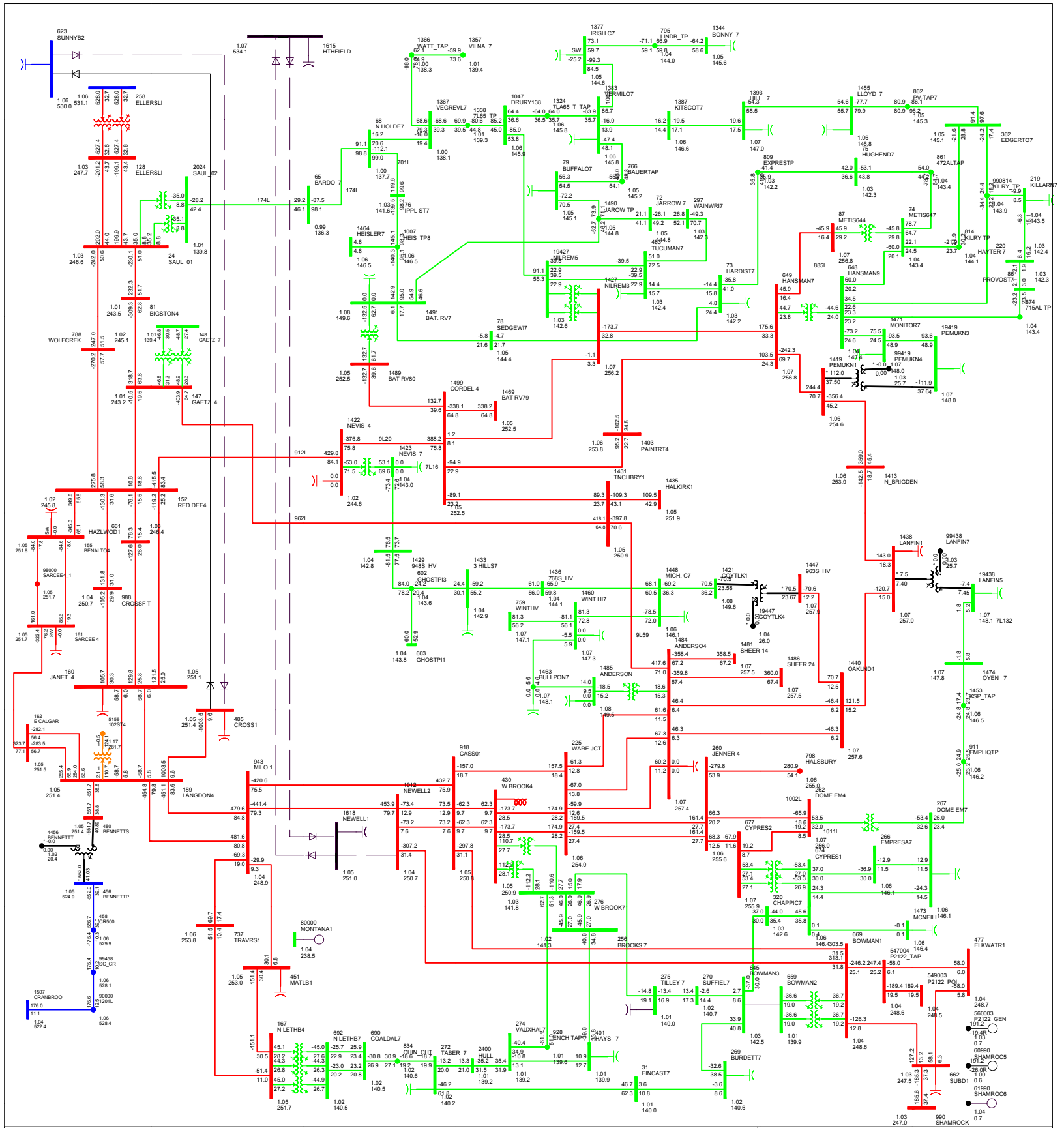
South East: 674.6 MW Central East: 275.6 MW South West: 936.2 MW

FIG. C-28 ,YR:2023SP; CASE: M4; GEN SCN 1
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1
CAP: MAXIMIZE
SUN, JUL 12 2020 23:02
Contingency: 7L205; Trip Action: L274 BC 138kV Tie

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

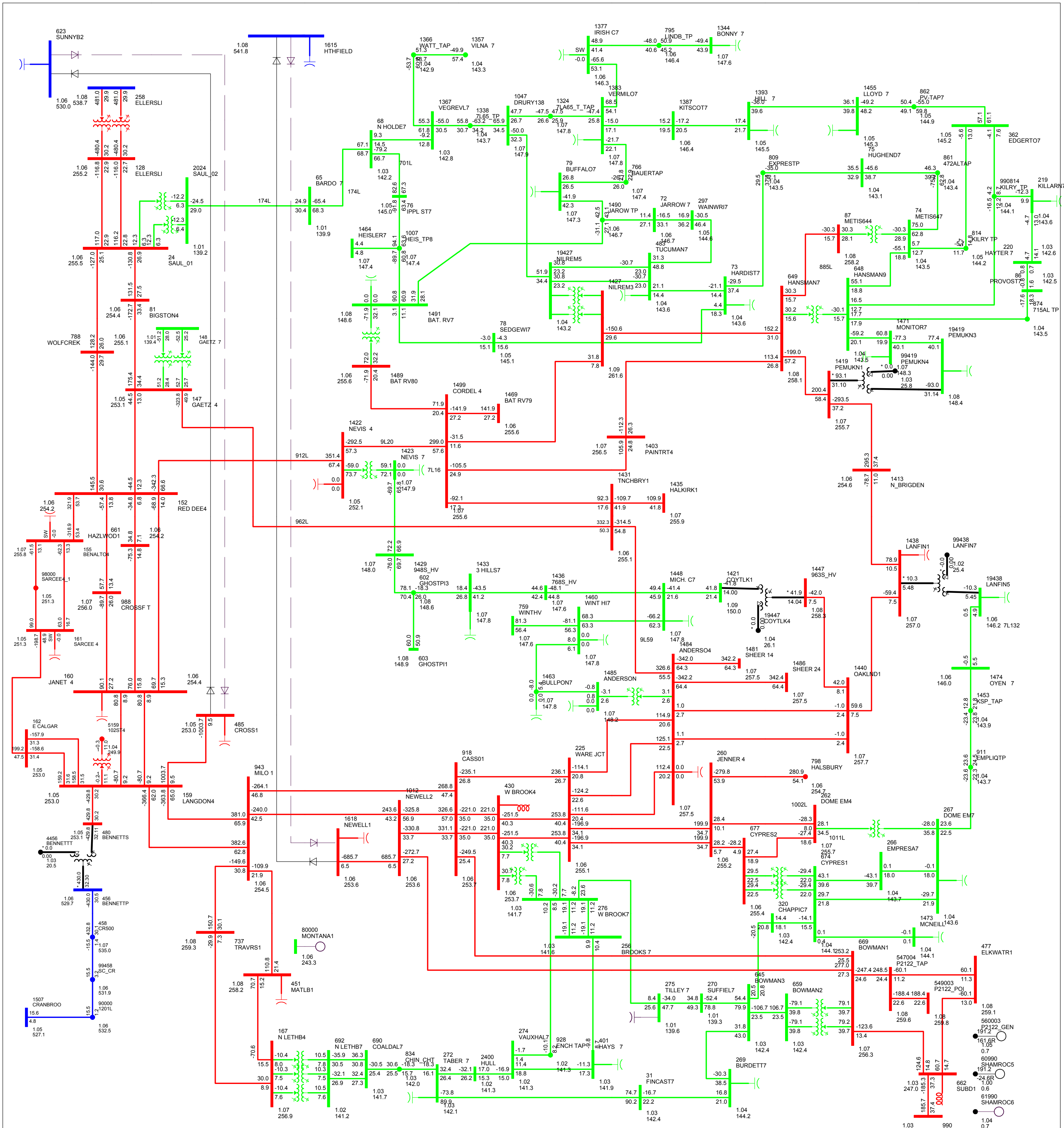
South East: 674.6 MW Central East: 275.6 MW South West: 936.2 MW

FIG. C-29 ,YR:2023SP; CASE: M4; GEN SCN 1
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1
CAP: MAXIMIZE
SUN, JUL 12 2020 23:02
Contingency: EATL; Trip Action: L274 BC 138kV Tie, Bowmanton 240/138kV split

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

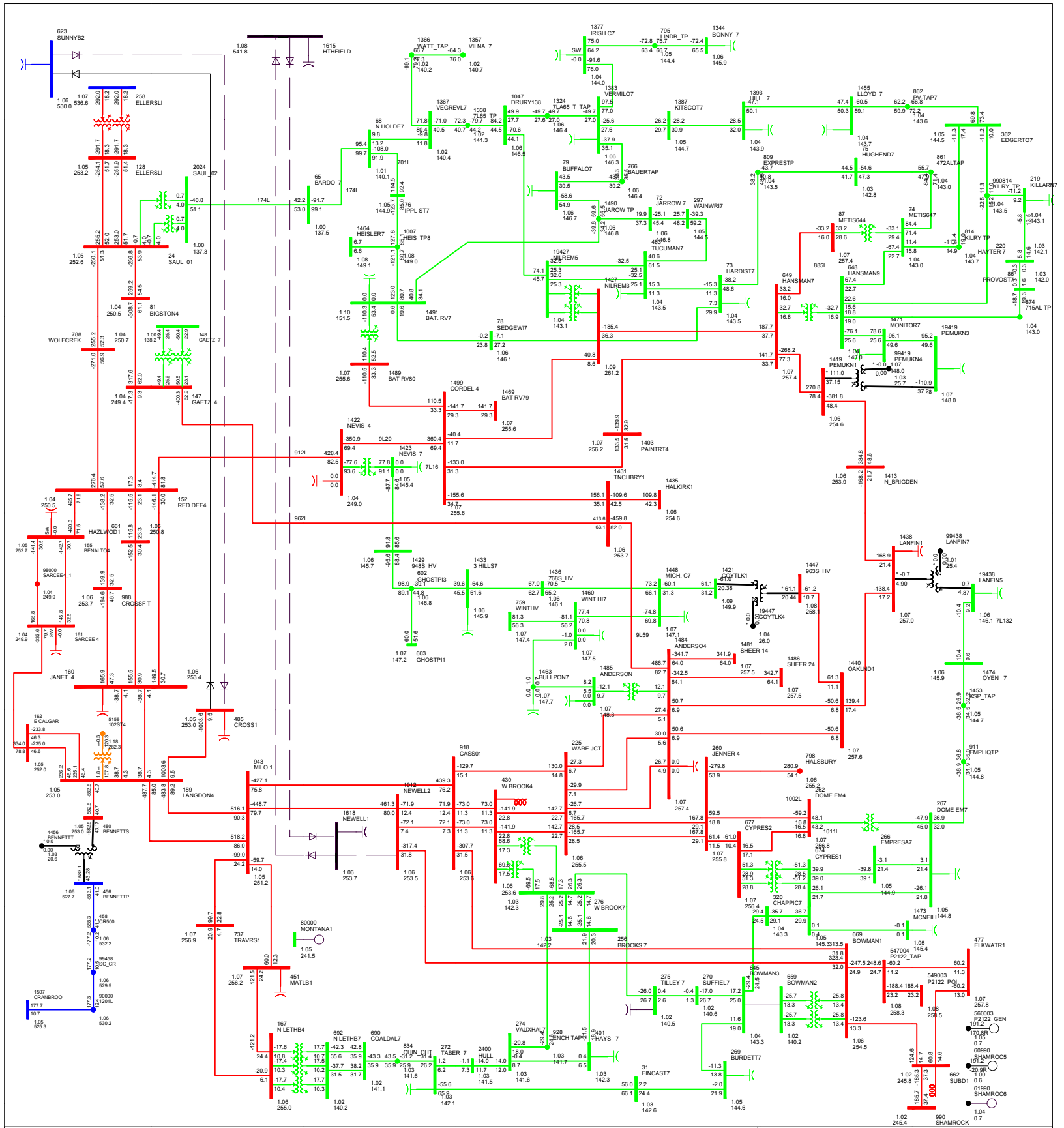
South East: 674.6 MW Central East: 275.6 MW South West: 936.2 MW

FIG. C-30 ; YR:2023SL; CASE: M5; GEN SCN 1
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1
CAP: MAXIMIZE
SUN, JUL 12 2020 23:02
Contingency: Base; Trip Action: L274 BC 138kV Tie

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

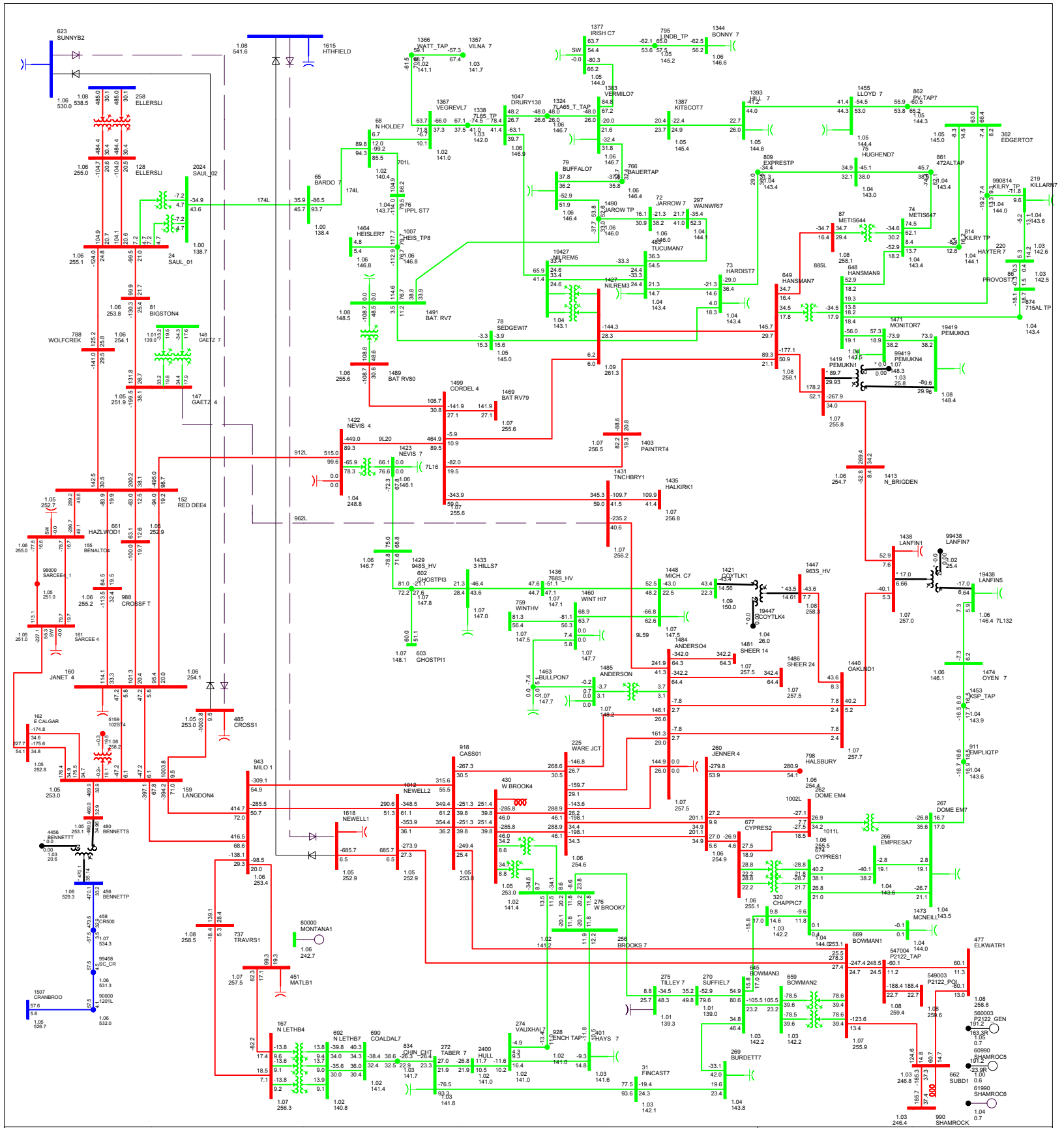
South East: 674.6 MW Central East: 275.6 MW South West: 936.2 MW

FIG. C-31 ;YR-2023SL; CASE: M5; GEN SCN 1
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1
CAP: MAXIMIZE
SUN, JUL 12 2020 23:02
Contingency: EATL; Trip Action: L274 BC 138kV Tie, Bowmanton 240/138kV split

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

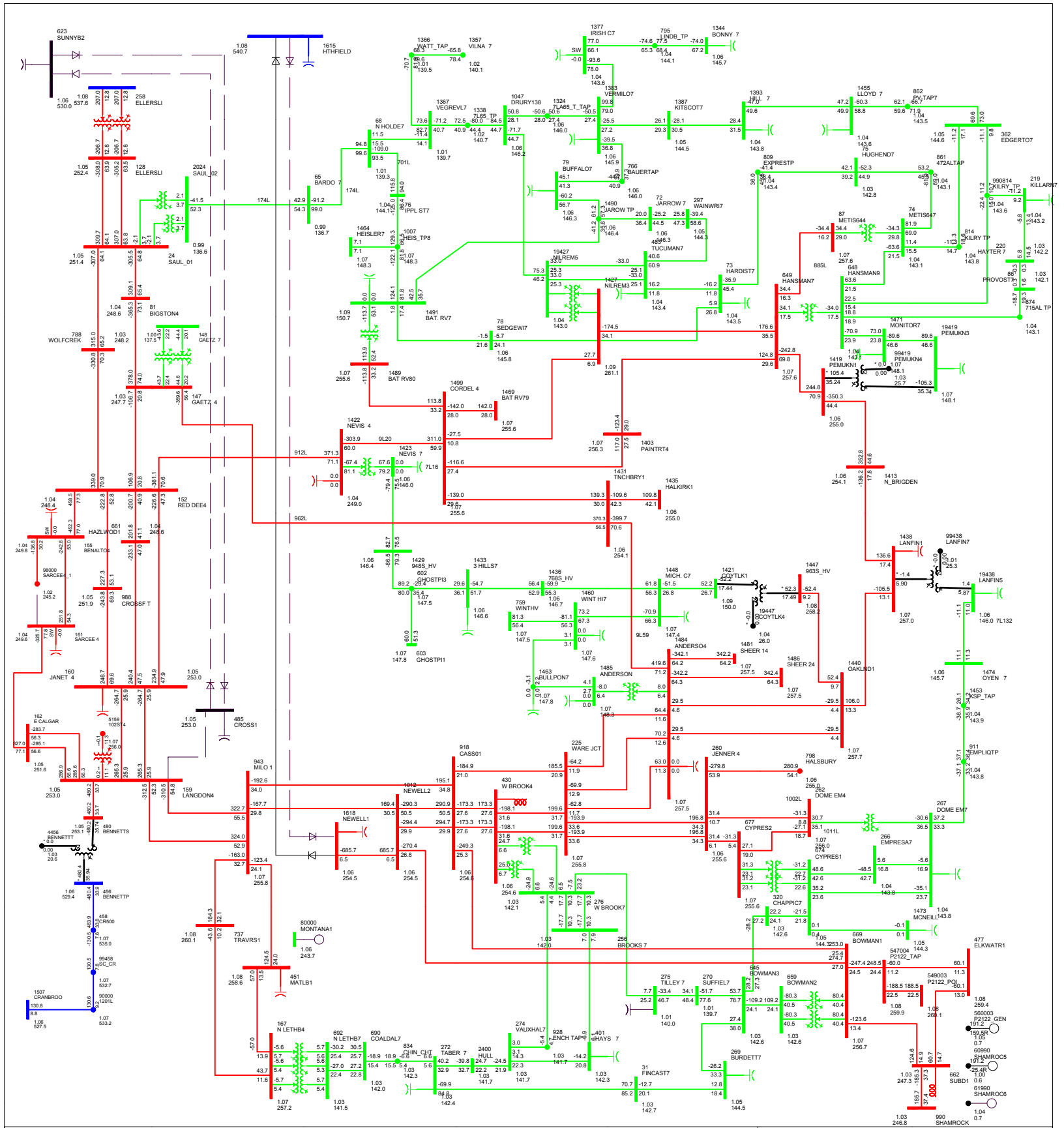
South East: 674.6 MW Central East: 275.6 MW South West: 936.2 MW

FIG. C-32_YR-2023SL; CASE: M5; GEN SCN 1
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1
CAP: MAXIMIZE
SUN, JUL 12 2020 23:02
Contingency: 962L_8L962; Trip Action: L274 BC 138kV Tie

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

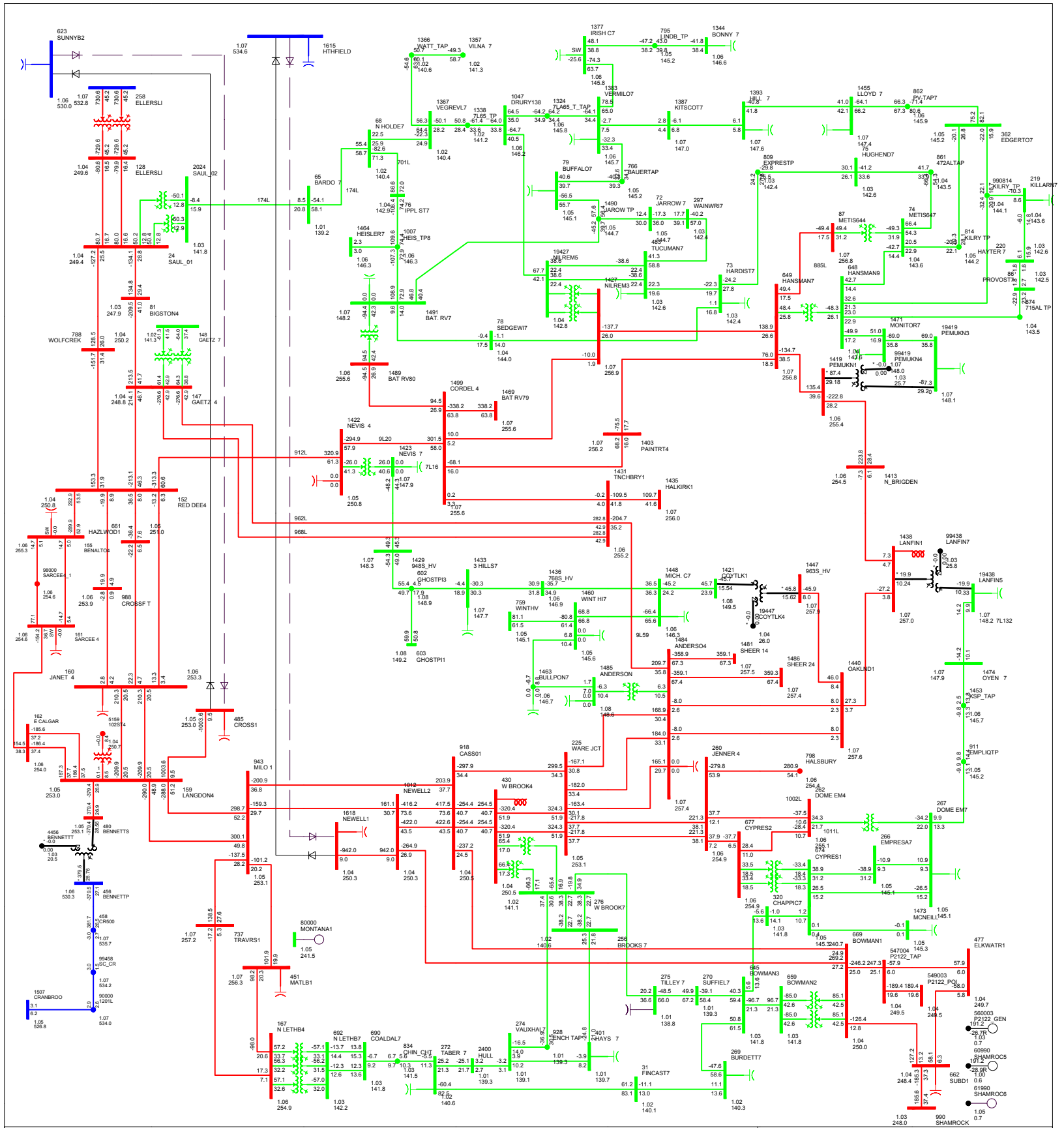
South East: 674.6 MW Central East: 275.6 MW South West: 936.2 MW

FIG. C-33 :YR:2023SL: CASE: M5; GEN SCN 1
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1
CAP: MAXIMIZE
SUN, JUL 12 2020 23:02
Contingency: WATL: Trip Action: L274 BC 138kV Tie, 916L overload,Sarcee bus split

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

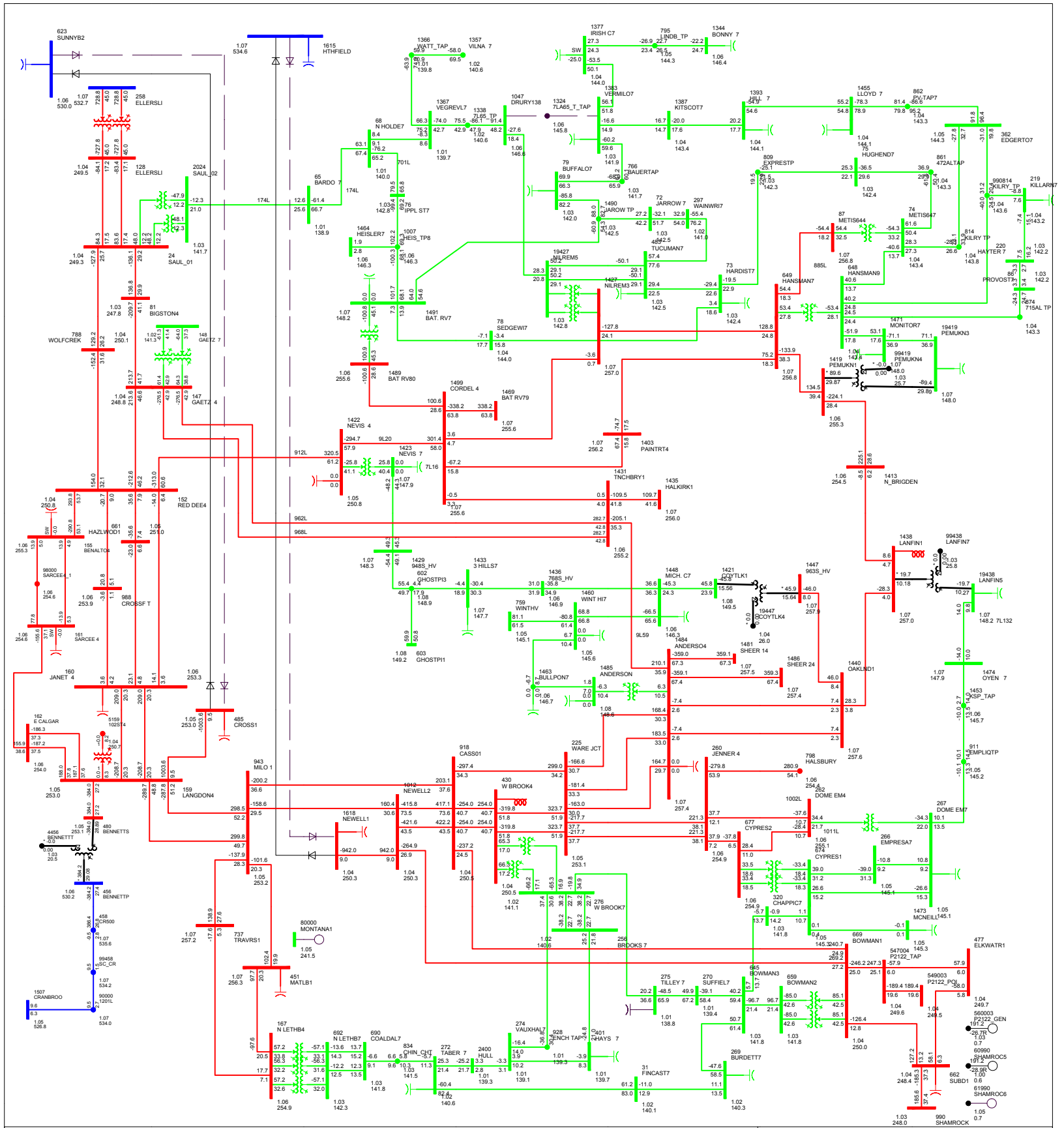
South East: 715.0 MW Central East: 540.1 MW South West: 935.2 MW

FIG. C-34 :YR:2023SP; CASE: M4; GEN SCN 1
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1&2
CAP: MAXIMIZE
SUN, JUL 12 2020 23:02
Contingency: Base; Trip Action: None

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

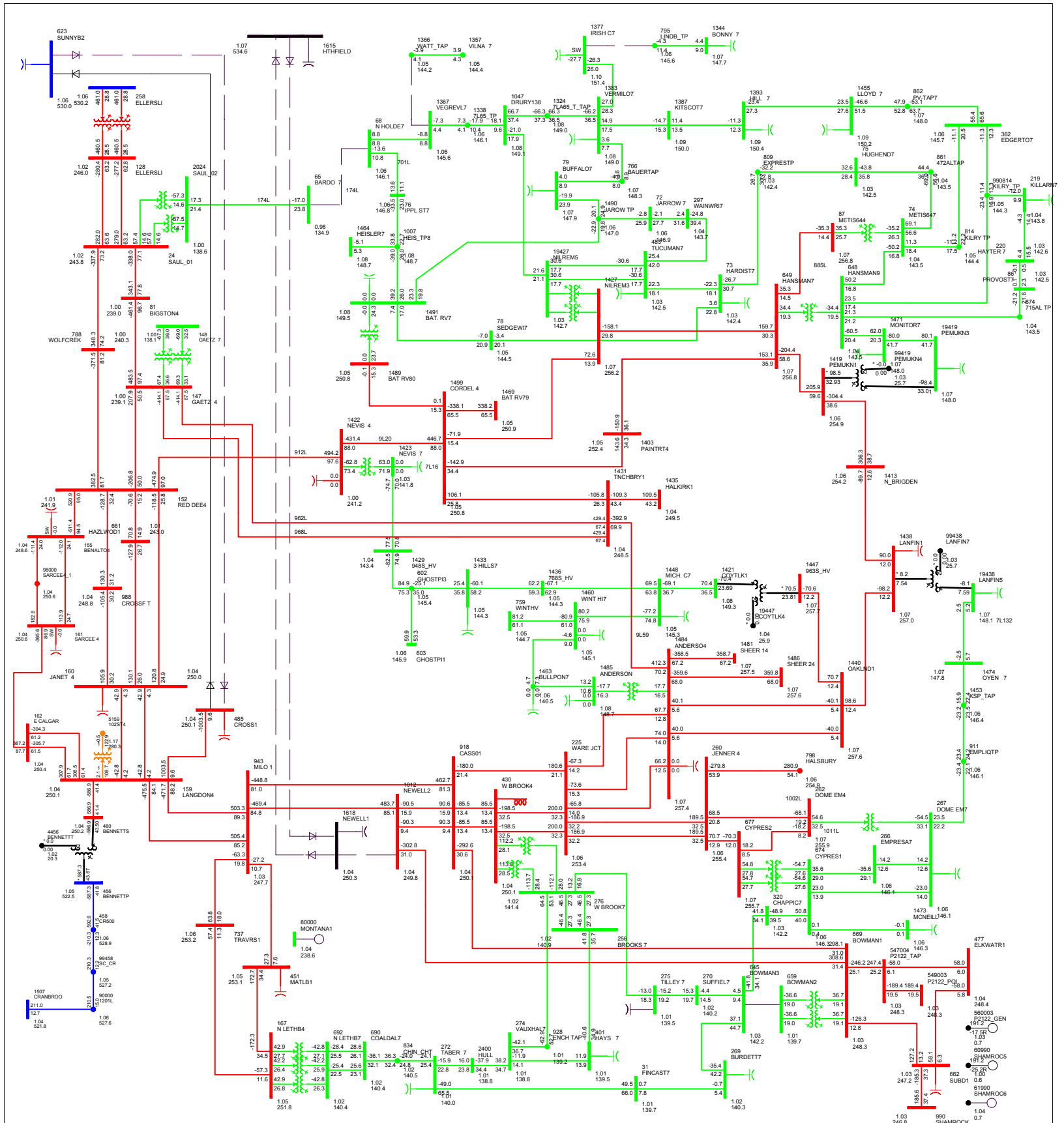
South East: 715.0 MW Central East: 540.1 MW South West: 935.2 MW

FIG. C-35 :YR:2023SP; CASE: M4; GEN SCN 1
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1&2
CAP: MAXIMIZE
SUN, JUL 12 2020 23:02
Contingency: 7L205; Trip Action: None

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

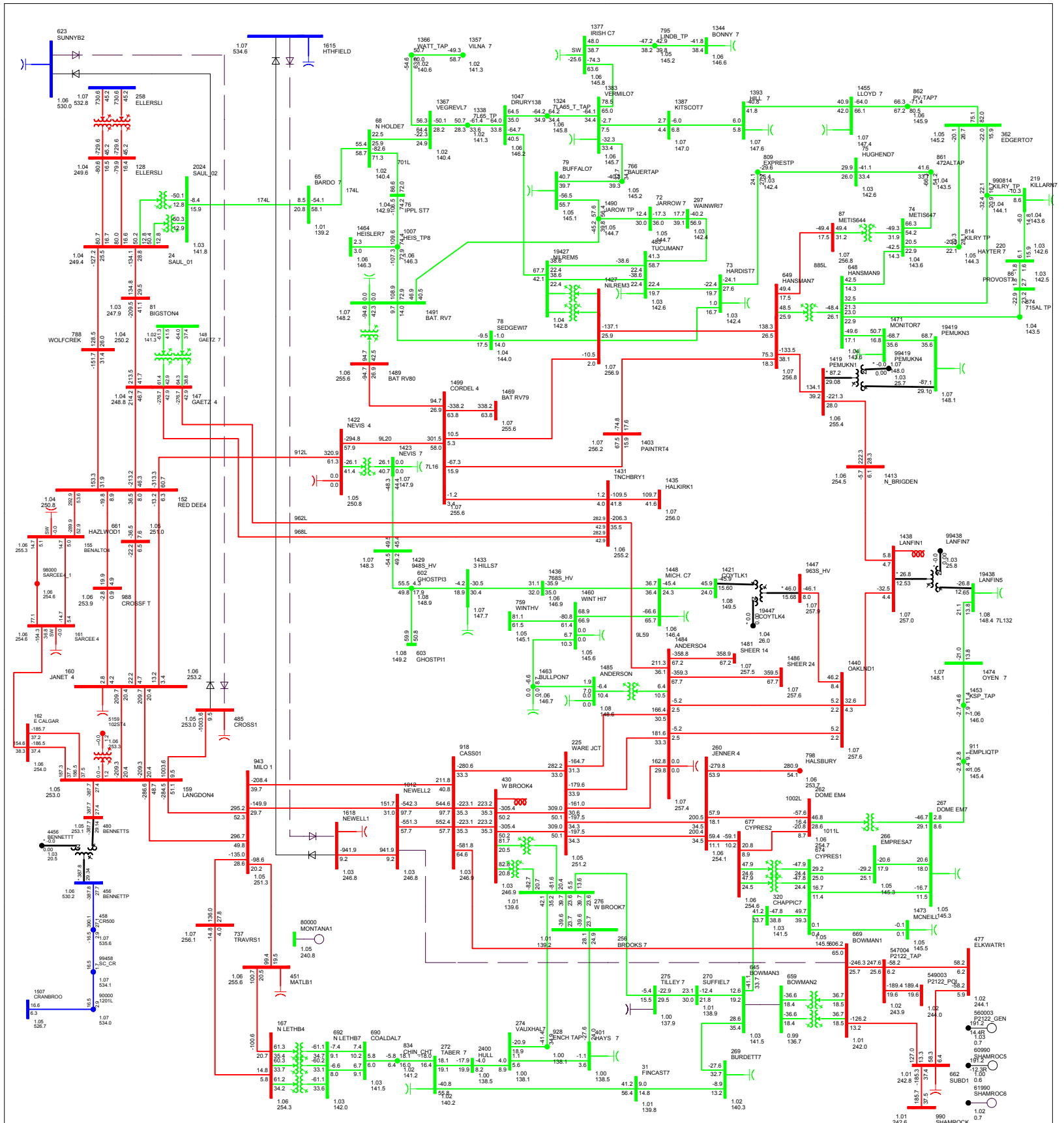
South East: 715.0 MW Central East: 540.1 MW South West: 935.2 MW

FIG. C-36 :YR-2023SP; CASE: M4; GEN SCN 1
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1&2
CAP: MAXIMIZE
SUN, JUL 12 2020 23:01
Contingency: EATL; Trip Action: 174L overload trip, 7L53 overload trip, 7L92 overload trip, L274 BC 138kV Tie, Bowmanton 240/138kV split

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

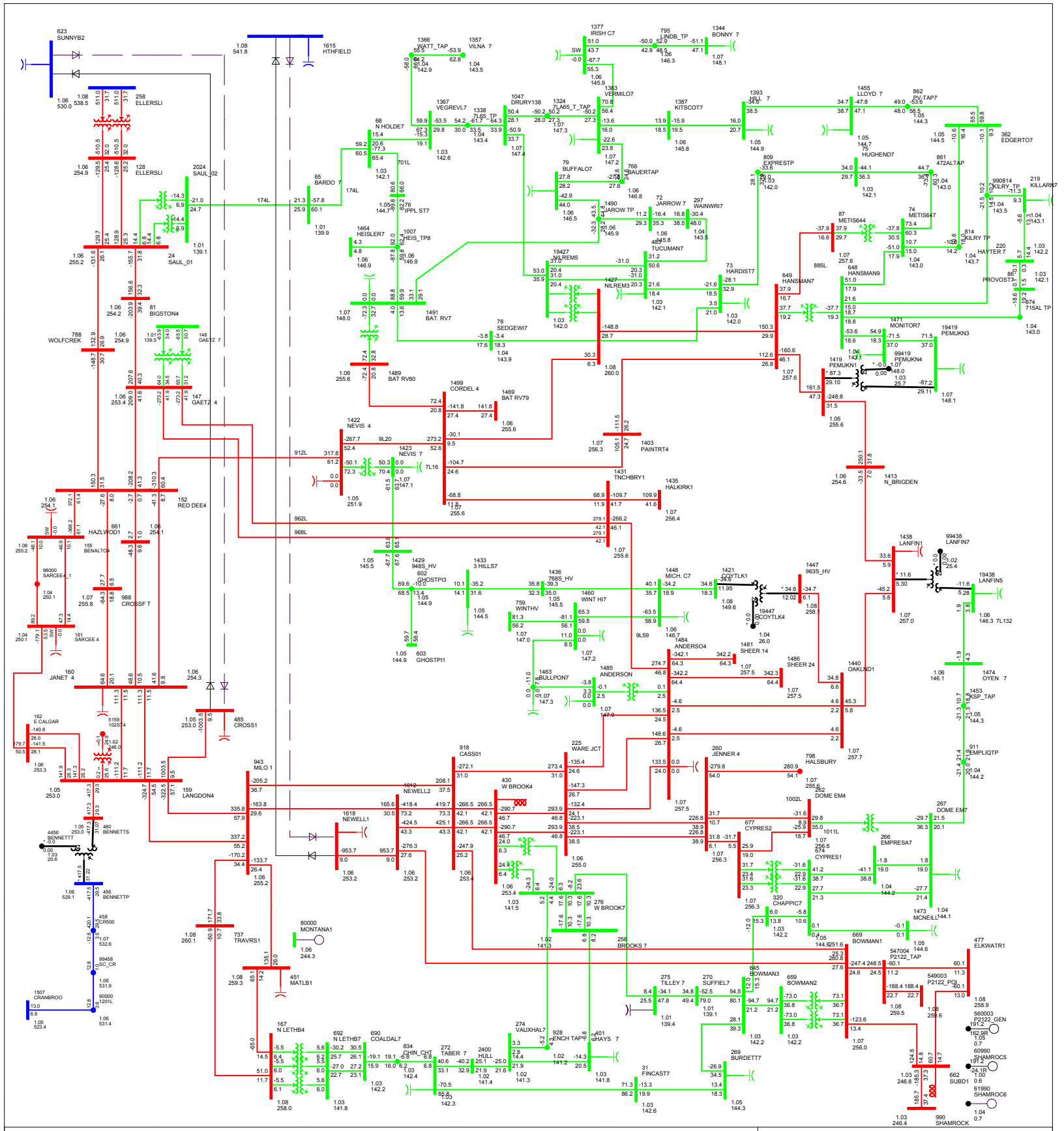
South East: 715.0 MW Central East: 540.1 MW South West: 935.2 MW

FIG. C-37 :YR:2023SP; CASE: M4; GEN SCN 1
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1&2
CAP: MAXIMIZE
SUN, JUL 12 2020 23:01
Contingency: 1035L Trip Action: Bowmanton 240/138kV split

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

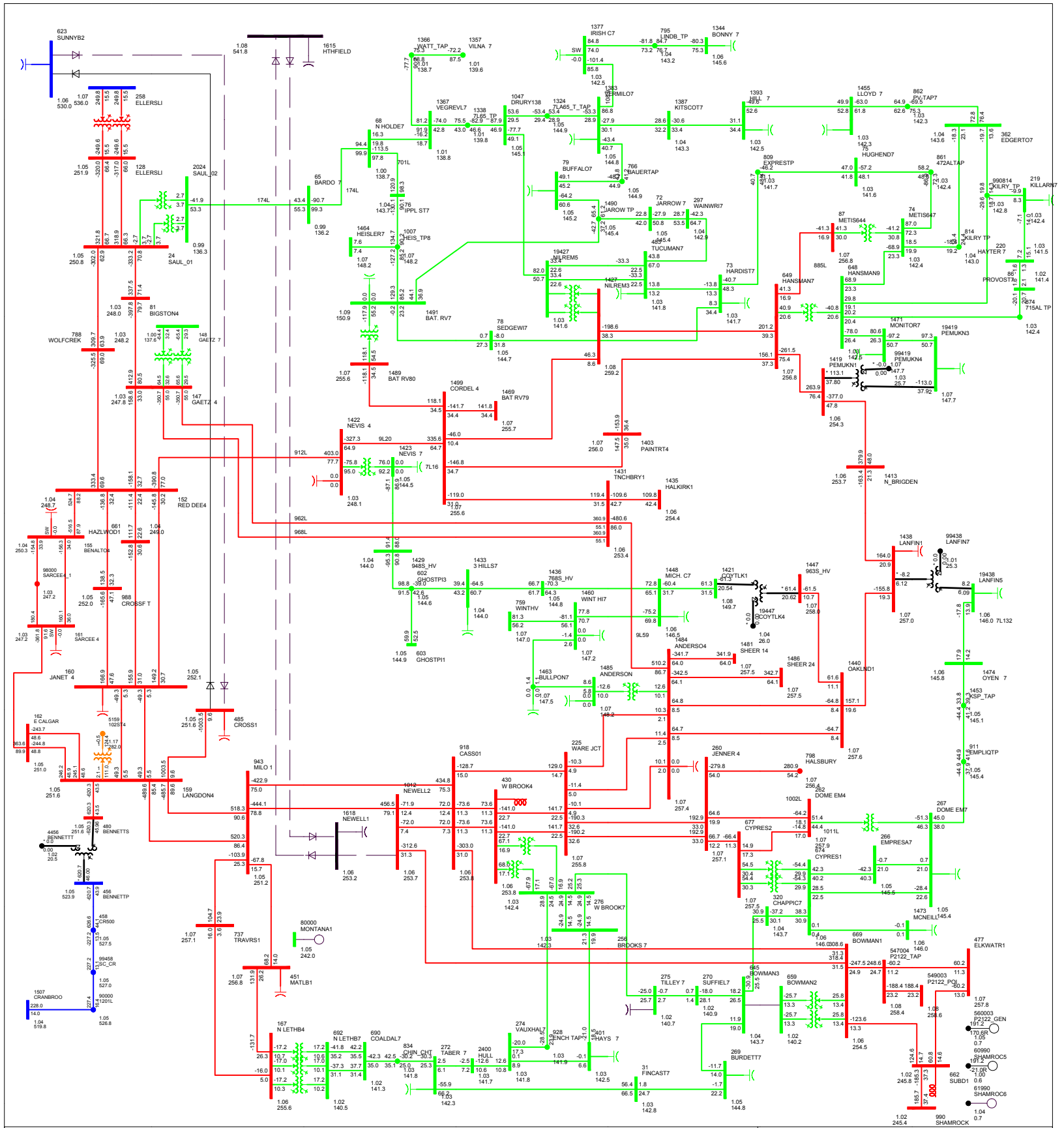
South East: 715.0 MW Central East: 540.1 MW South West: 935.2 MW

FIG. C-38 :YR:2023SL; CASE: M5; GEN SCN 1
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1&2
CAP: MAXIMIZE
SUN, JUL 12 2020 23:01
Contingency: Base; Trip Action: L274 BC 138kV Tie

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

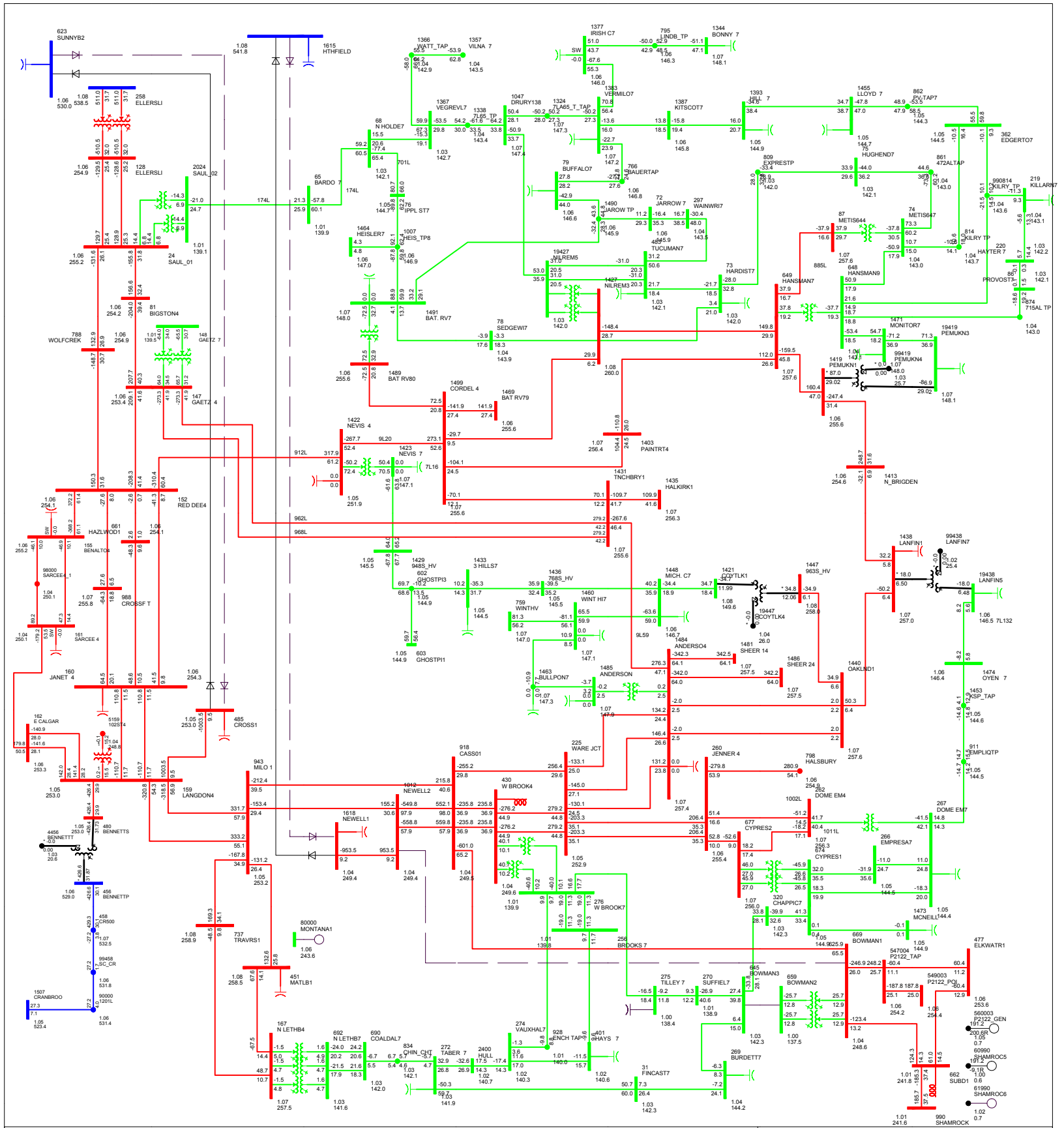
South East: 715.0 MW Central East: 540.1 MW South West: 935.2 MW

FIG. C-39 :YR:2023SL: CASE: M5; GEN SCN 1
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1&2
CAP: MAXIMIZE
SUN, JUL 12 2020 23:01
Contingency: EATL; Trip Action: L274 BC 138kV Tie, Bowmanton 240/138kV split

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

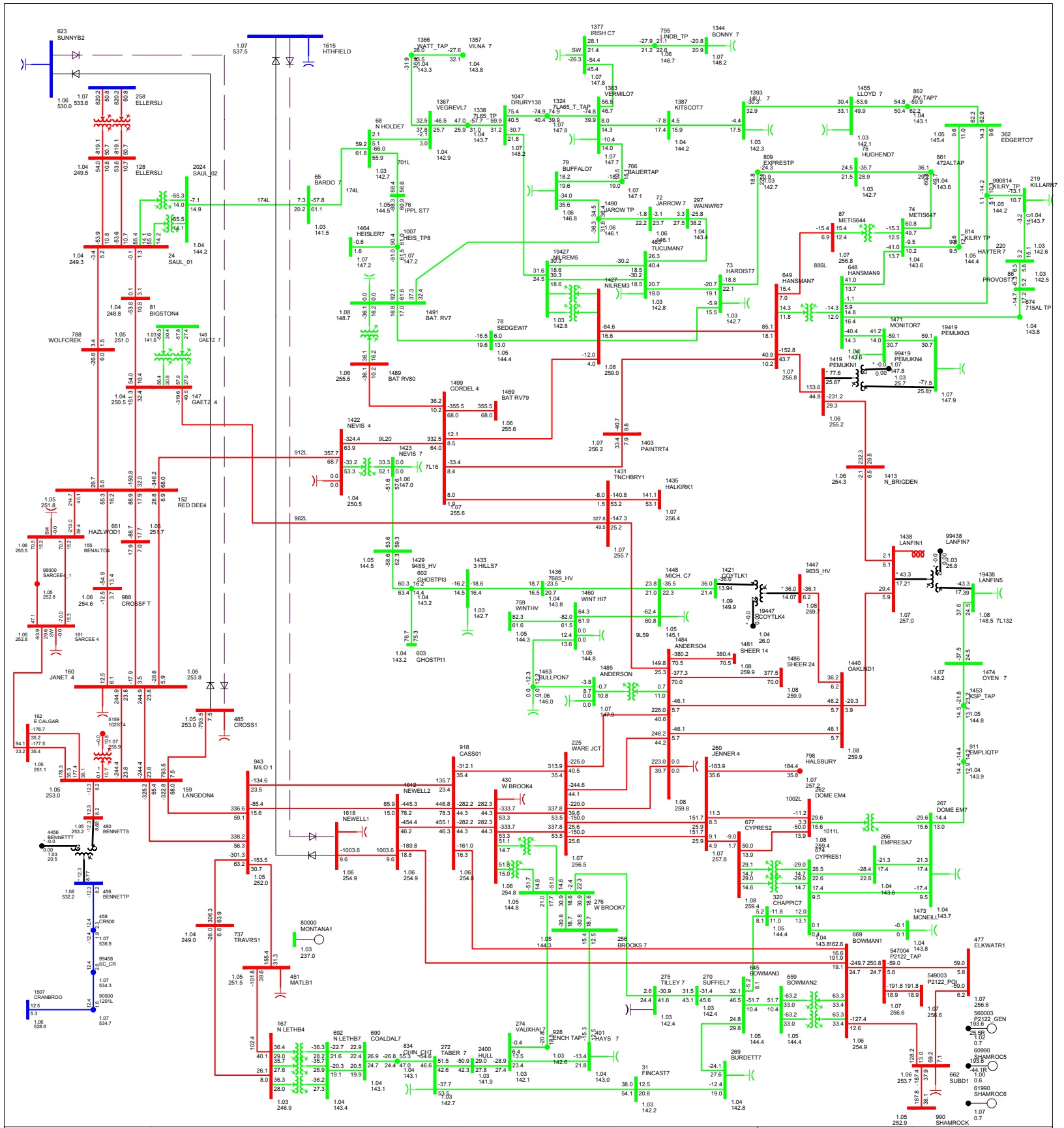
South East: 715.0 MW Central East: 540.1 MW South West: 935.2 MW

FIG. C-40 ,YR:2023SL; CASE: M5; GEN SCN 1
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1&2
CAP: MAXIMIZE
SUN, JUL 12 2020 23:01
Contingency: 1035L: Trip Action: L274 BC 138kV Tie, Bowmanton 240/138kV split

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

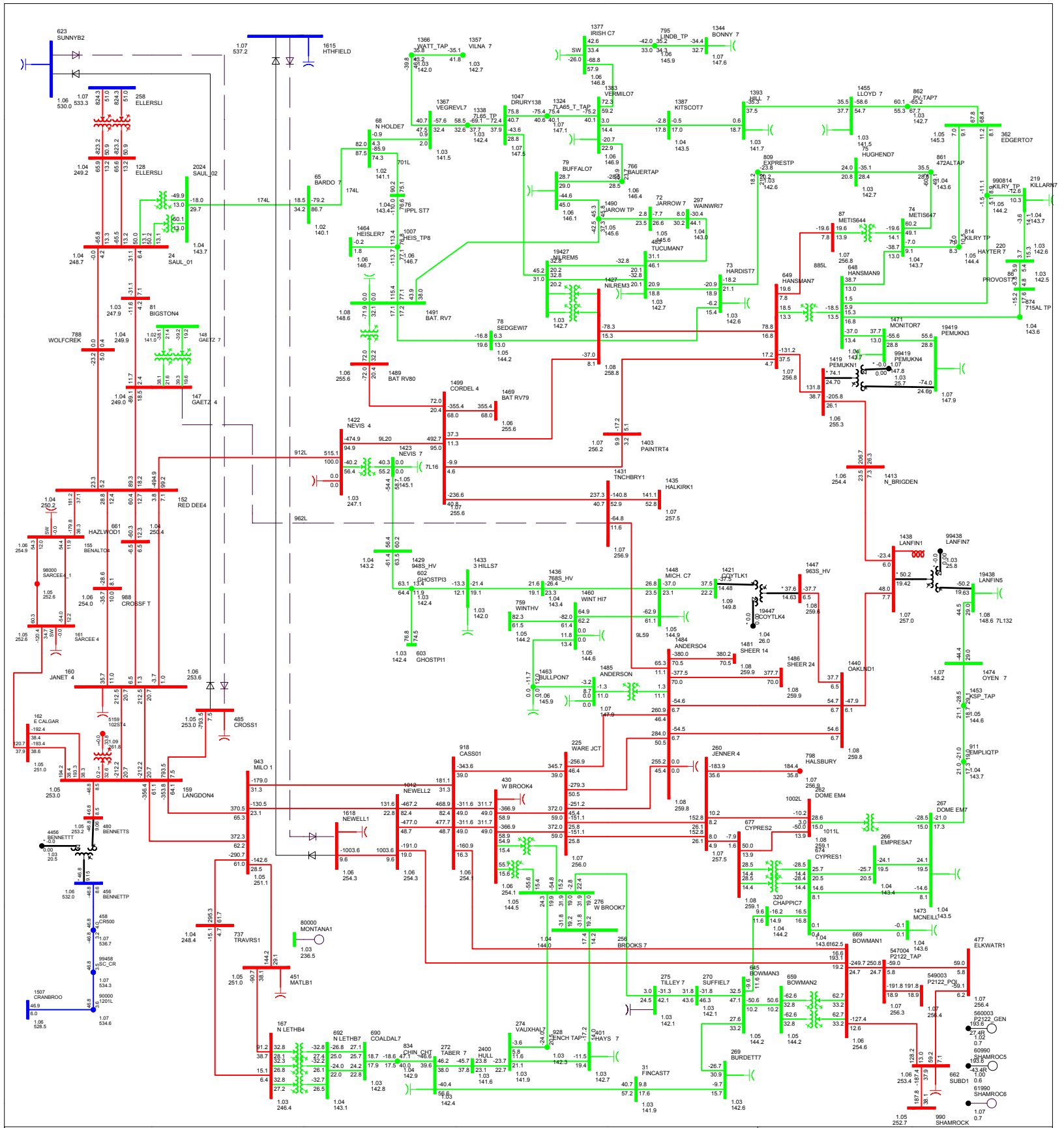
South East: 459.5 MW Central East: 309.7 MW South West: 324.0 MW

FIG. C-41 ,YR:2023SP; CASE: H2; GEN SCN 2
PROJECT: CETO STAGE1
CAP: MAXIMIZE
SUN, JUL 12 2020 23:12
Contingency: Base; Trip Action: None

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

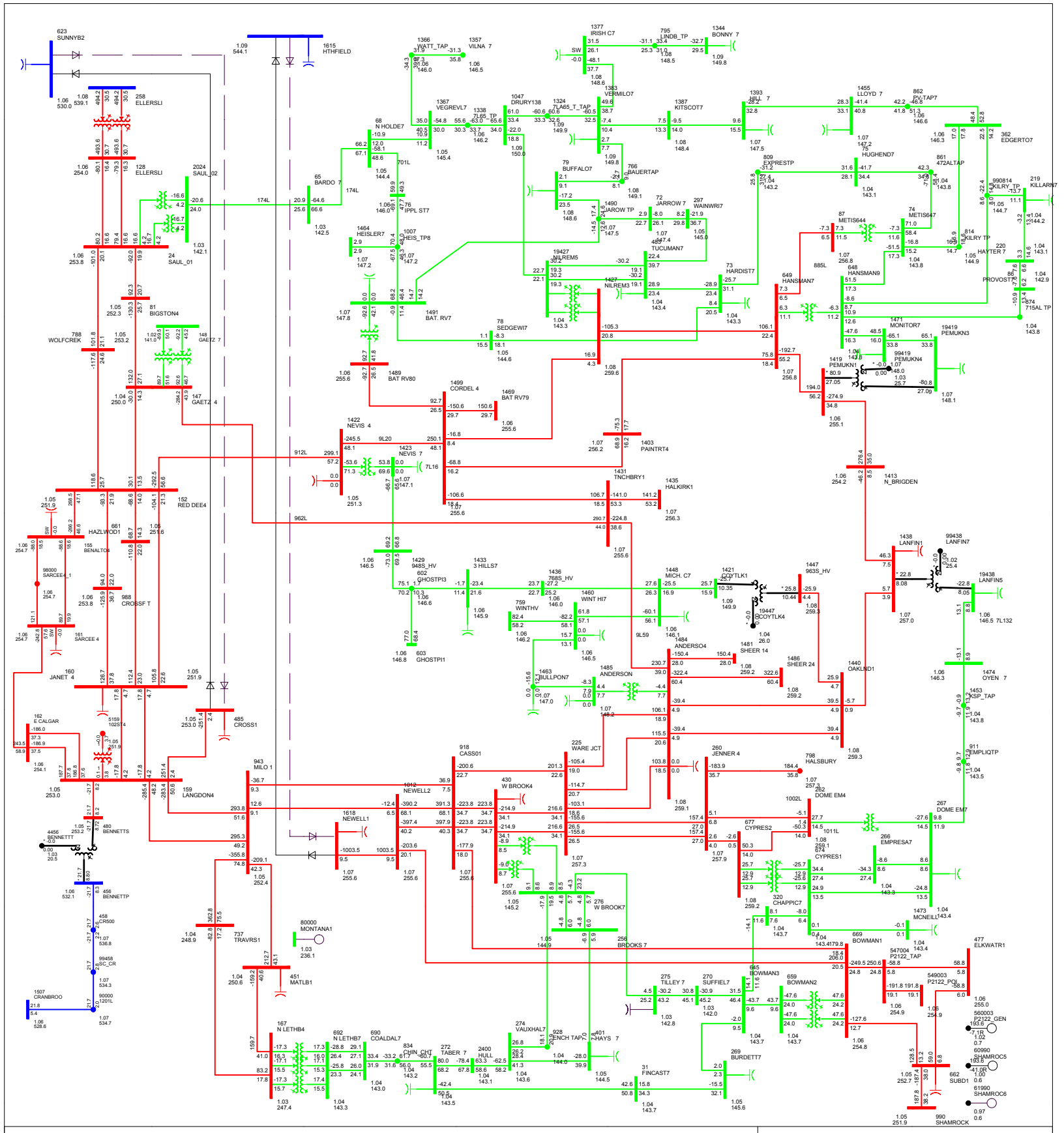
South East: 459.5 MW Central East: 309.7 MW South West: 324.0 MW

FIG. C-42 ,YR:2023SP; CASE: H2; GEN SCN 2
PROJECT: CETO STAGE1
CAP: MAXIMIZE
SUN, JUL 12 2020 23:11
Contingency: 962L_9L962; Trip Action: None

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

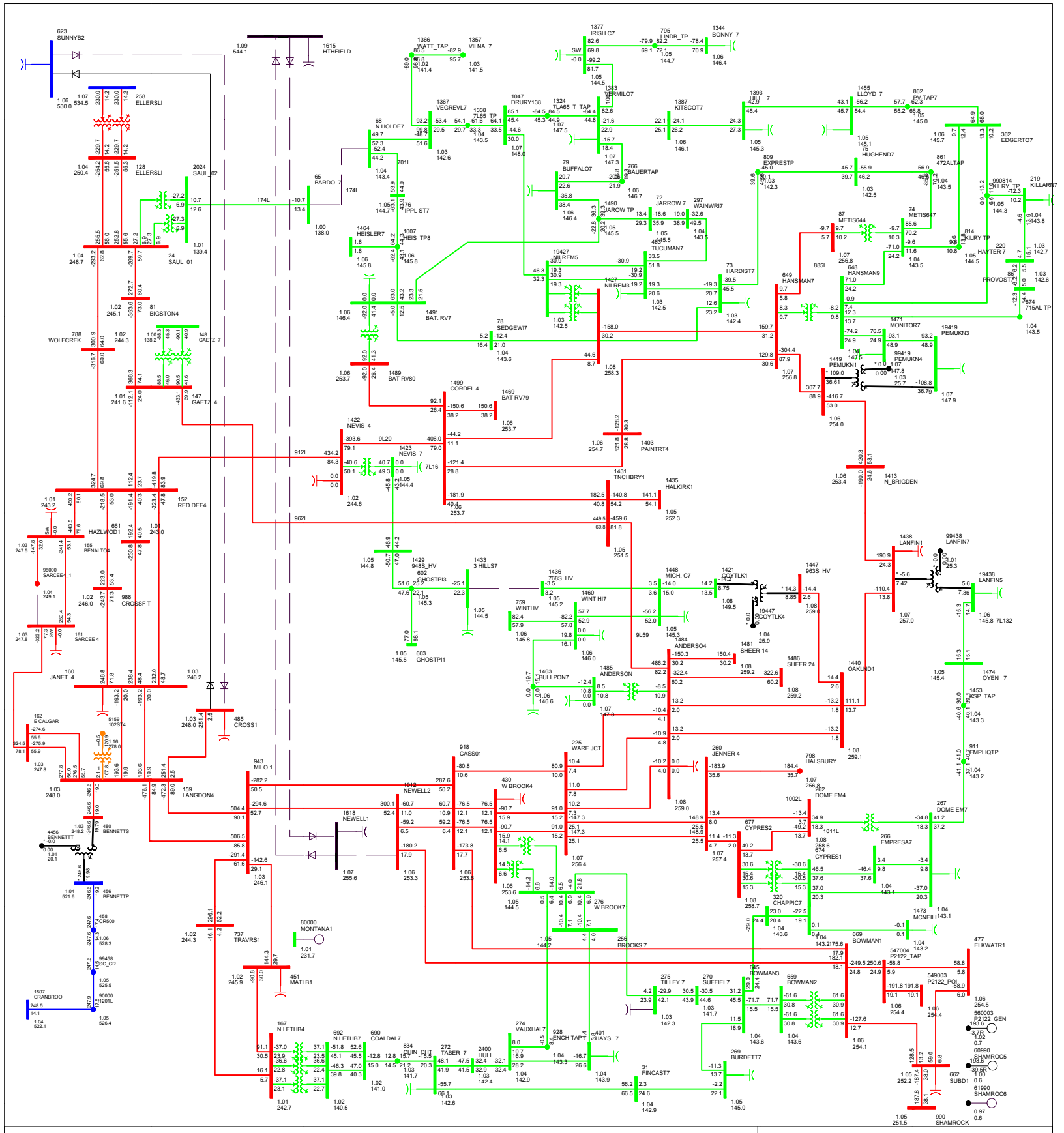
South East: 459.5 MW Central East: 309.7 MW South West: 324.0 MW

FIG. C-43 ,YR:2023SL; CASE: H3; GEN SCN 2
PROJECT: CETO STAGE1
CAP: MAXIMIZE
SUN, JUL 12 2020 23:11
Contingency: Base; Trip Action: None

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading

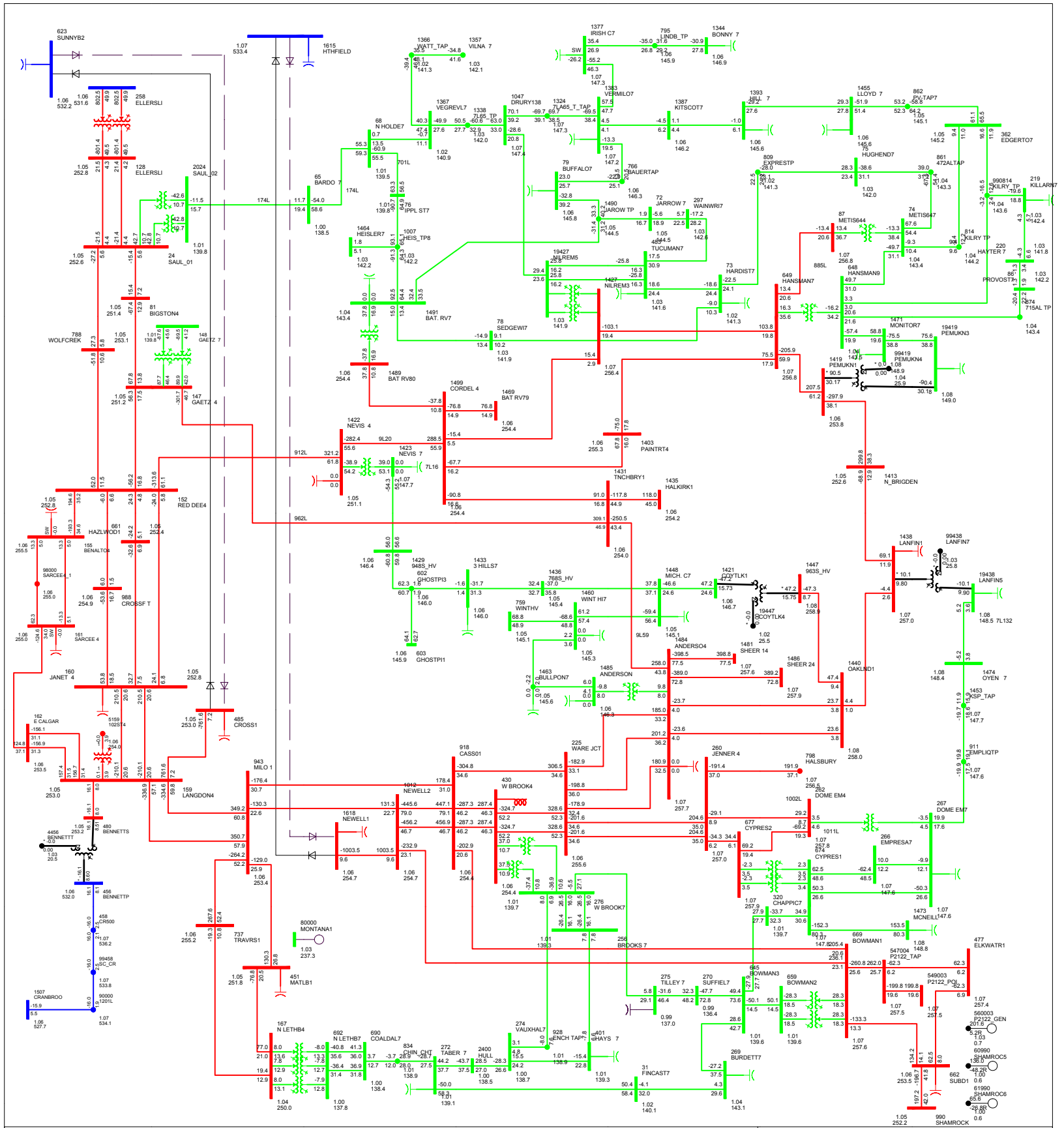


P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

South East: 459.5 MW Central East: 309.7 MW South West: 324.0 MW

FIG. C-44 :YR:2023SL; CASE: H3; GEN SCN 2
PROJECT: CETO STAGE1
CAP: MAXIMIZE
SUN, JUL 12 2020 23:11
Contingency: EATL; Trip Action: 174L overload trip, L274 BC 138kV Tie, 916L overload,Sarcee bus split, Nevis tr overload RAS



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

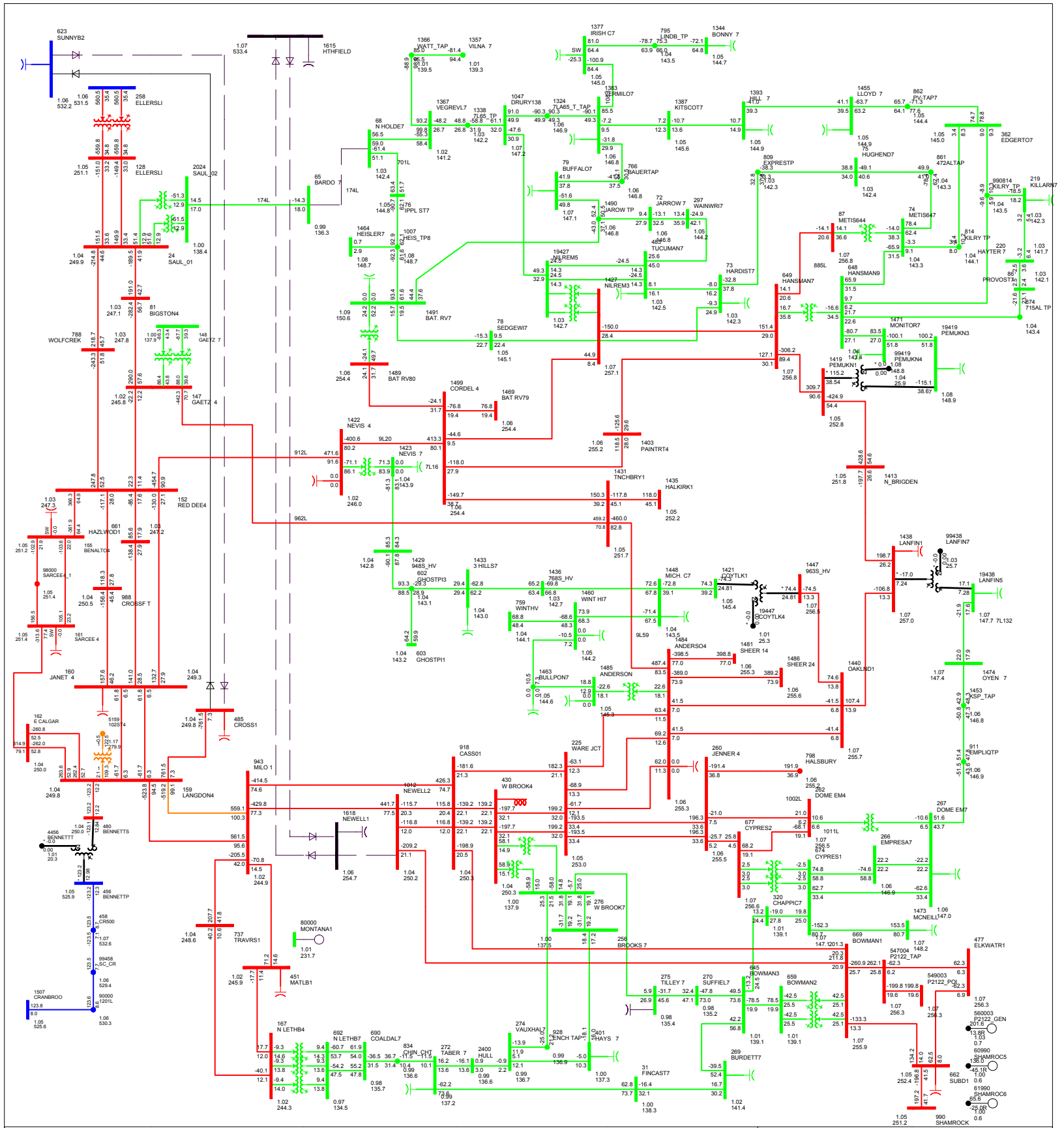
South East: 459.5 MW Central East: 309.7 MW South West: 324.0 MW

FIG. C-45 ,YR:2023S; CASE: H5; GEN SCN 2
PROJECT: CETO STAGE1
CAP: MAXIMIZE
SUN, JUL 12 2020 23:11
Contingency: Base; Trip Action: None

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

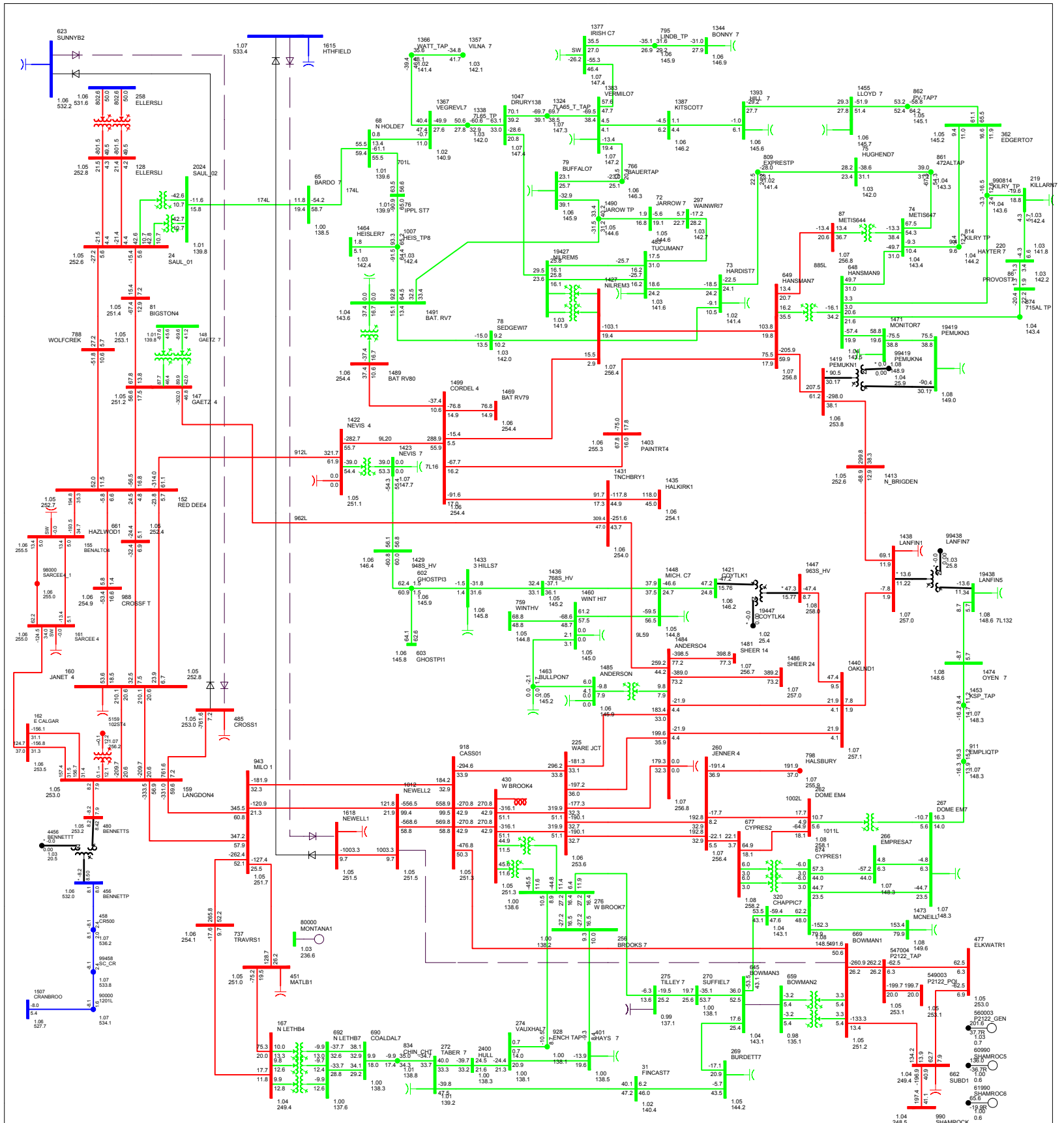
South East: 459.5 MW Central East: 309.7 MW South West: 324.0 MW

FIG. C-46 :YR:2023S; CASE: H5; GEN SCN 2
PROJECT: CETO STAGE1
CAP: MAXIMIZE
SUN, JUL 12 2020 23:11
Contingency: EATL; Trip Action: 174L overload trip

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

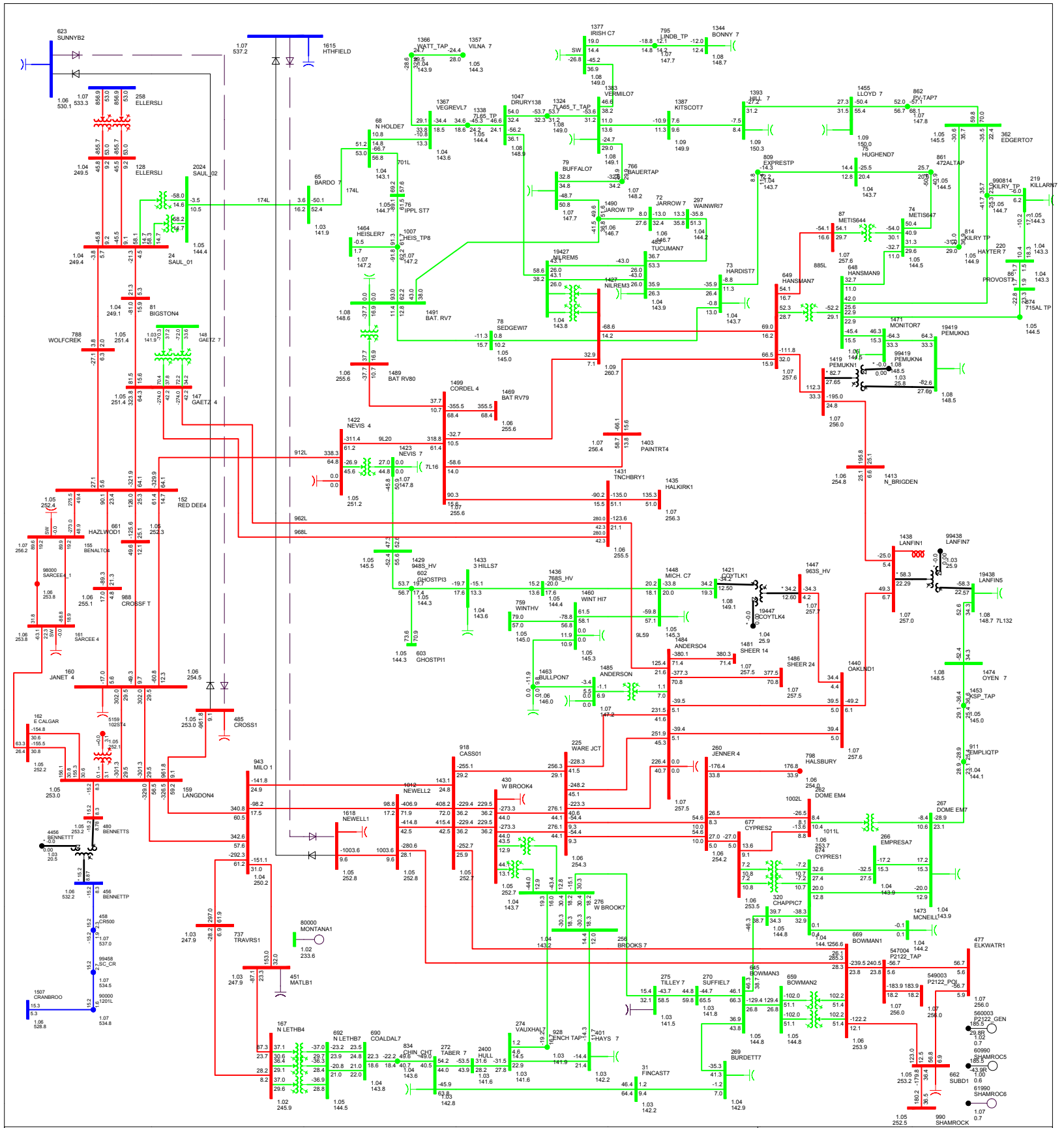
South East: 459.5 MW Central East: 309.7 MW South West: 324.0 MW

FIG. C-47 ,YR:2023S; CASE: H5; GEN SCN 2
PROJECT: CETO STAGE1
CAP: MAXIMIZE
SUN, JUL 12 2020 23:10
Contingency: 1035L: Trip Action: Bowmanton 240/138kV split

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

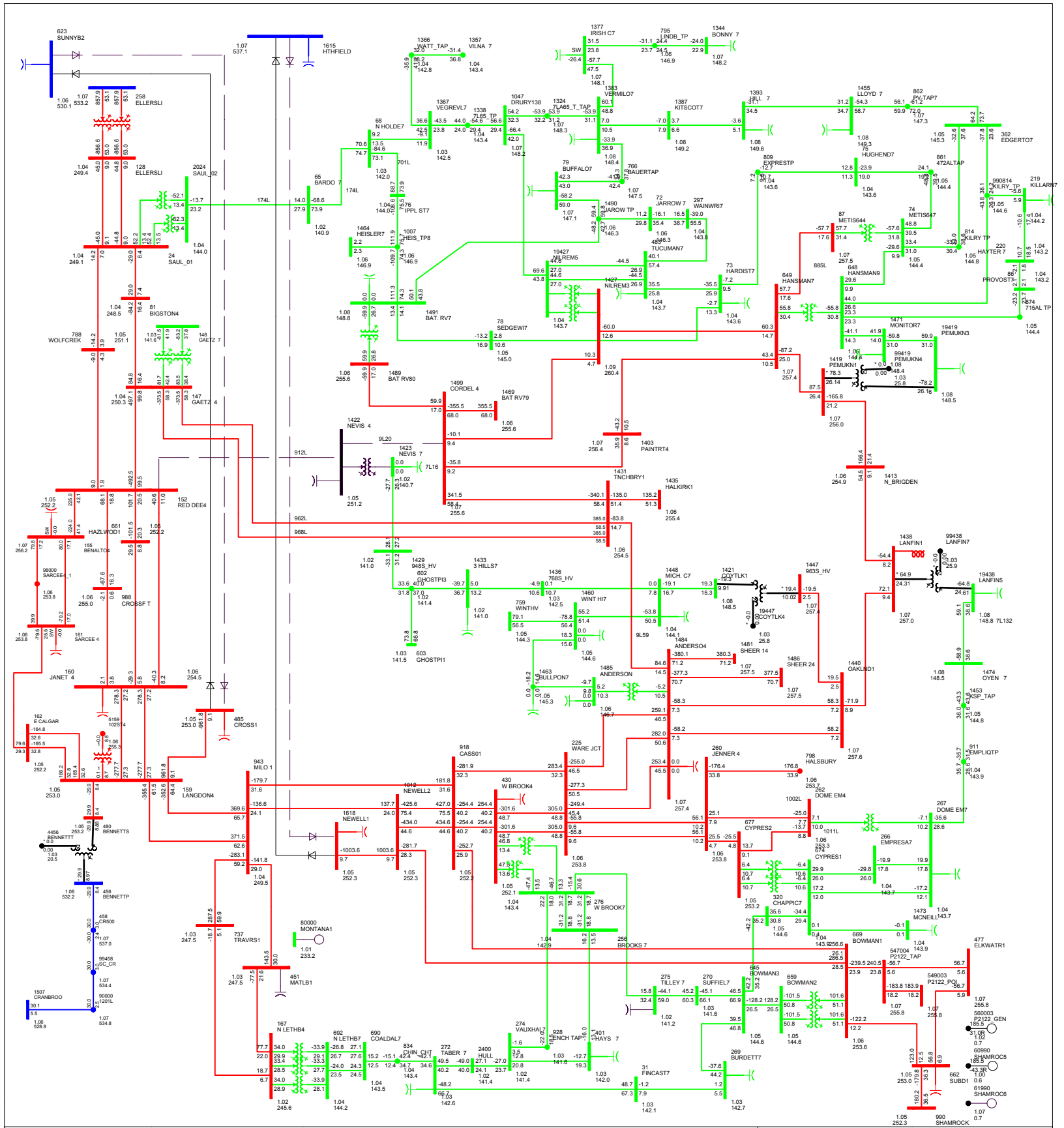
South East: 455.8 MW Central East: 588.0 MW South West: 366.4 MW

FIG. C-48 :YR:2023SP; CASE: H2; GEN SCN 2
PROJECT: CETO STAGE1&2
CAP: MAXIMIZE
SUN, JUL 12 2020 23:14
Contingency: Base; Trip Action: None

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

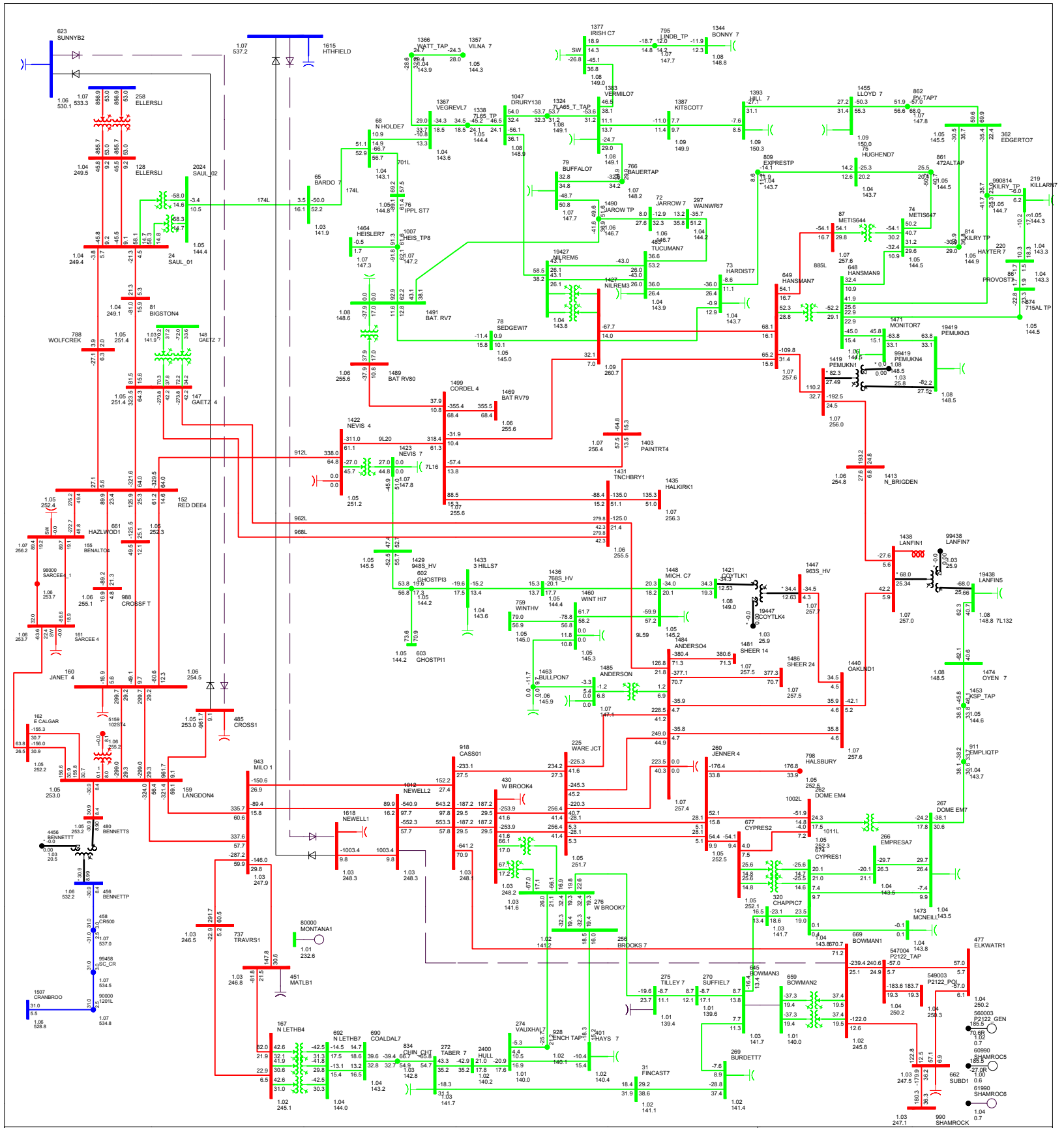
South East: 455.8 MW Central East: 588.0 MW South West: 366.4 MW

FIG. C-49 :YR:2023SP; CASE: H2; GEN SCN 2
PROJECT: CETO STAGE1&2
CAP: MAXIMIZE
SUN, JUL 12 2020 23:14
Contingency: 7665901T; Trip Action: None

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

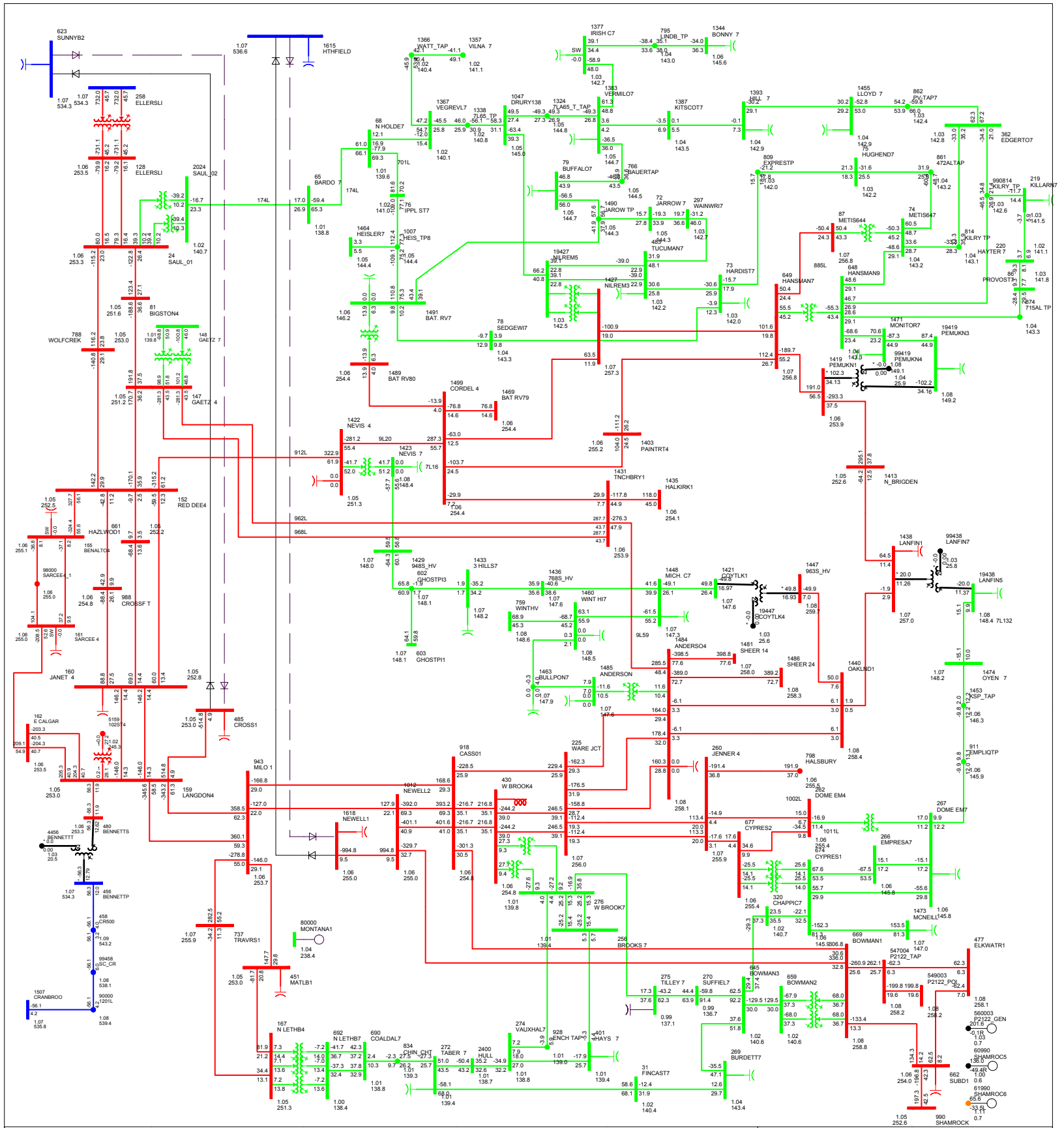
South East: 455.8 MW Central East: 588.0 MW South West: 366.4 MW

FIG. C-50 ,YR:2023SP; CASE: H2; GEN SCN 2
PROJECT: CETO STAGE1&2
CAP: MAXIMIZE
SUN, JUL 12 2020 23:14
Contingency: 1035L Trip Action: Bowmanton 240/138kV split

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

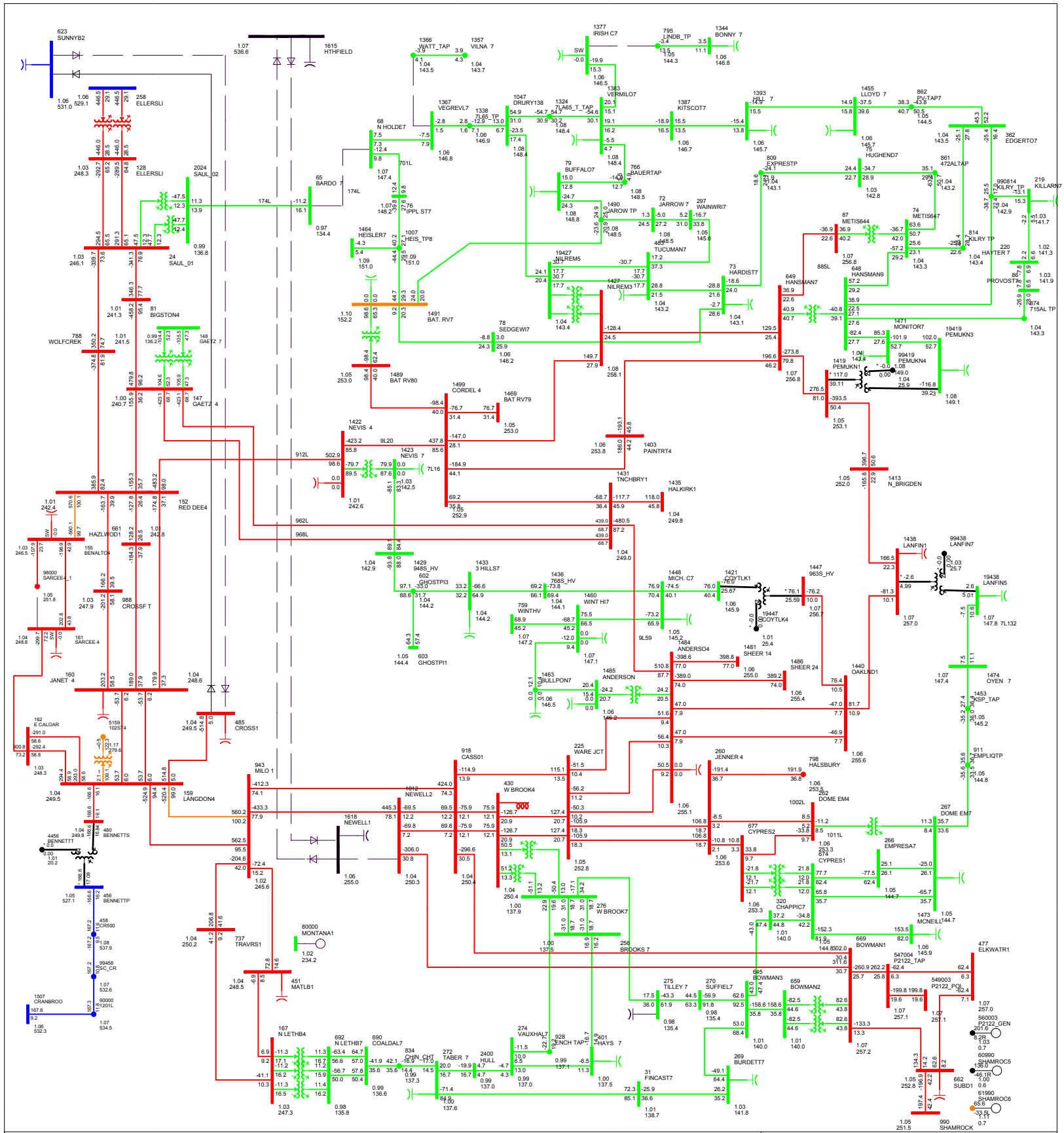
South East: 455.8 MW Central East: 588.0 MW South West: 366.4 MW

FIG. C-51 ;YR:2023S; CASE: H5; GEN SCN 2
PROJECT: CETO STAGE1&2
CAP: MAXIMIZE
SUN, JUL 12 2020 23:14
Contingency: Base; Trip Action: None

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

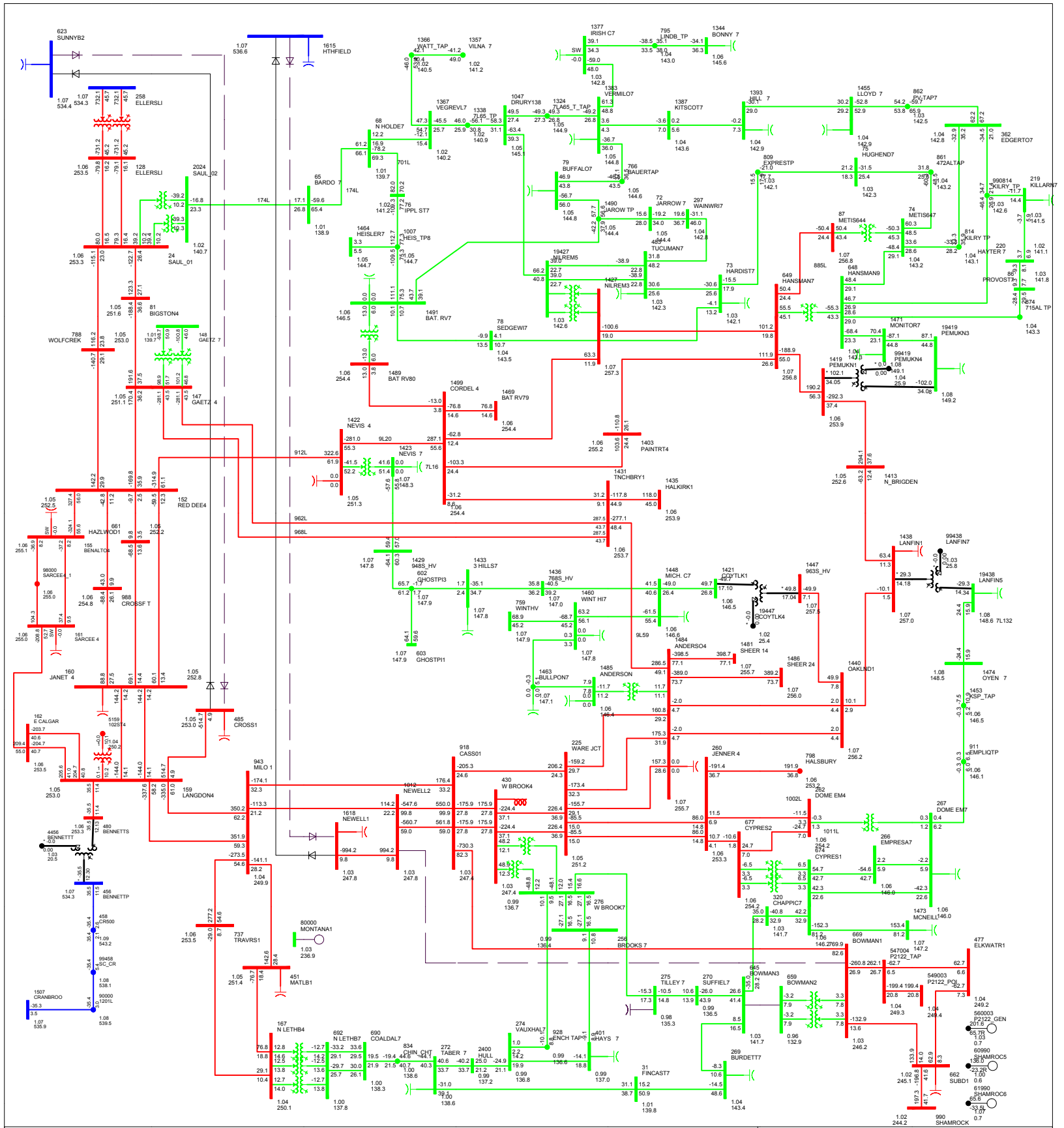
South East: 455.8 MW Central East: 588.0 MW South West: 366.4 MW

FIG. C-52 ,YR:2023S; CASE: H5; GEN SCN 2
PROJECT: CETO STAGE1&2
CAP: MAXIMIZE
SUN, JUL 12 2020 23:15
Contingency: EATL; Trip Action: 174L overload trip, 7L92 overload trip, 7L53 overload trip, 916L overload,Sarcee bus split

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

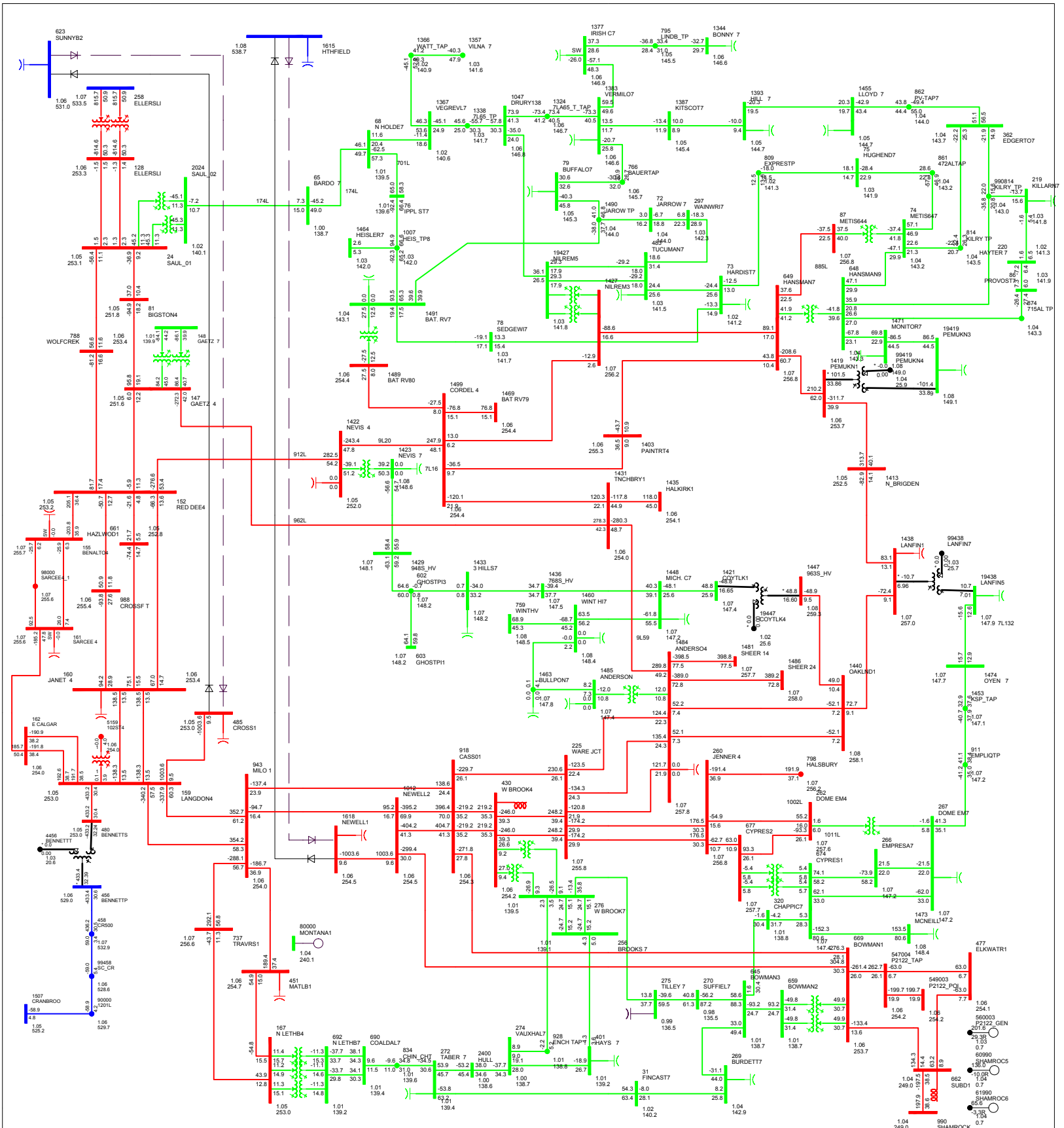
South East: 455.8 MW Central East: 588.0 MW South West: 366.4 MW

FIG. C-53 ;YR:2023S; CASE: H5; GEN SCN 2
PROJECT: CETO STAGE1&2
CAP: MAXIMIZE
SUN, JUL 12 2020 23:15
Contingency: 1035L Trip Action: Bowmanton 240/138kV split

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

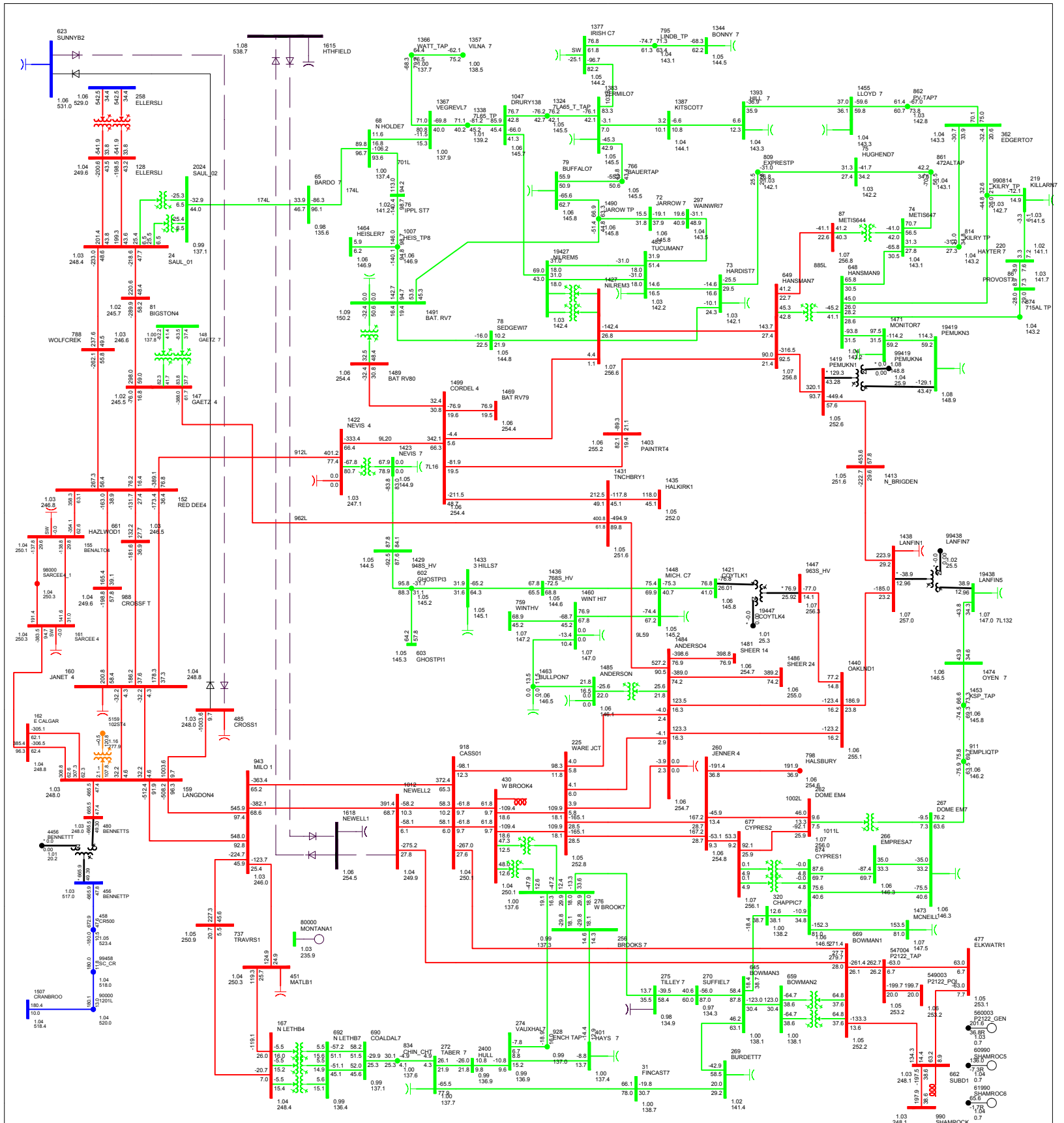
South East: 496.4 MW Central East: 114.6 MW South West: 940.0 MW

FIG. C-54 ;YR:2023S; CASE: H5; GEN SCN 2
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1
CAP: MAXIMIZE
SUN, JUL 12 2020 23:01
Contingency: Base; Trip Action: None

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

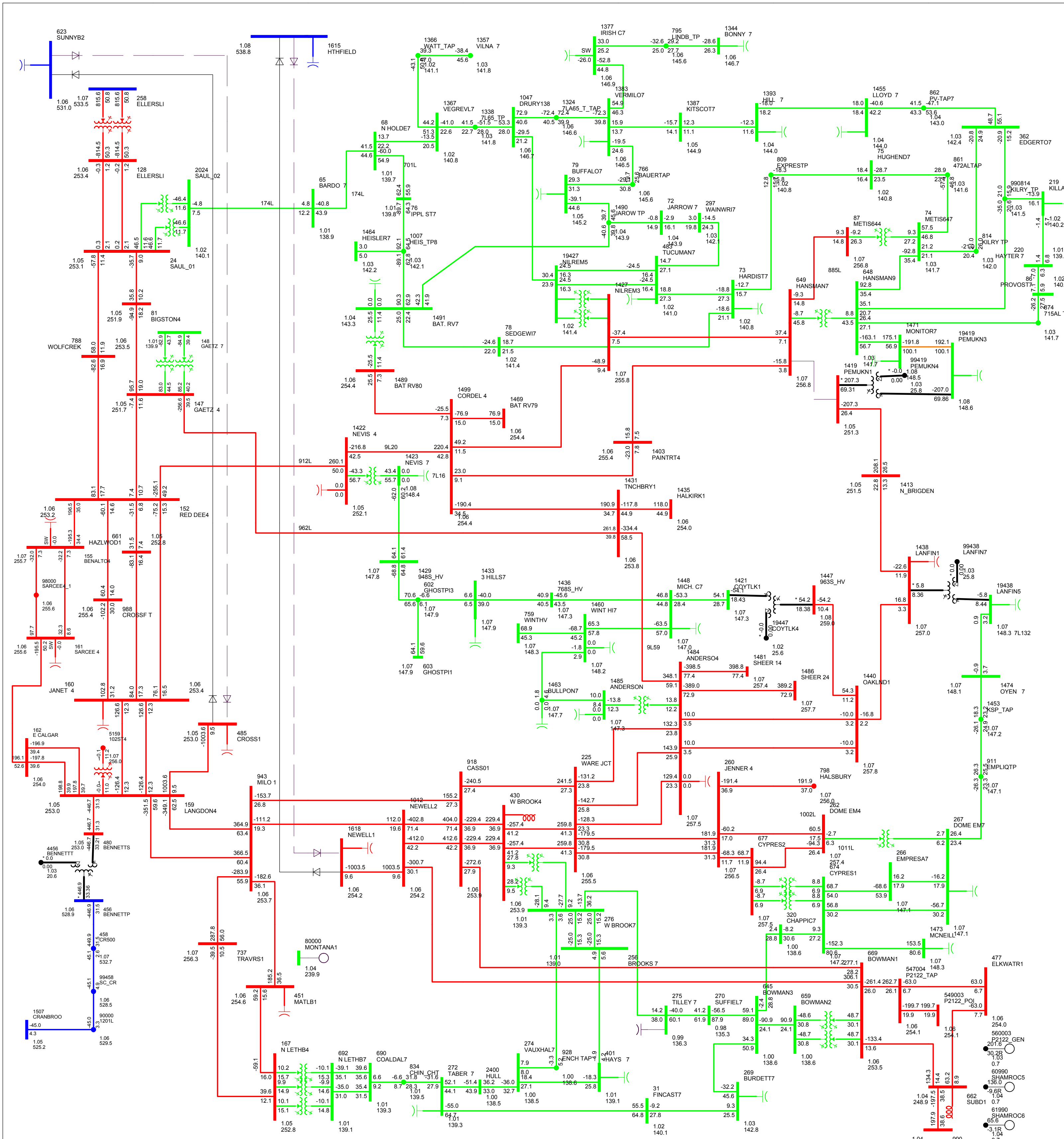
South East: 496.4 MW Central East: 114.6 MW South West: 940.0 MW

FIG. C-55 ;YR:2023S; CASE: H5; GEN SCN 2
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1
CAP: MAXIMIZE
SUN, JUL 12 2020 23:01
Contingency: EATL; Trip Action: L274 BC 138kV Tie

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

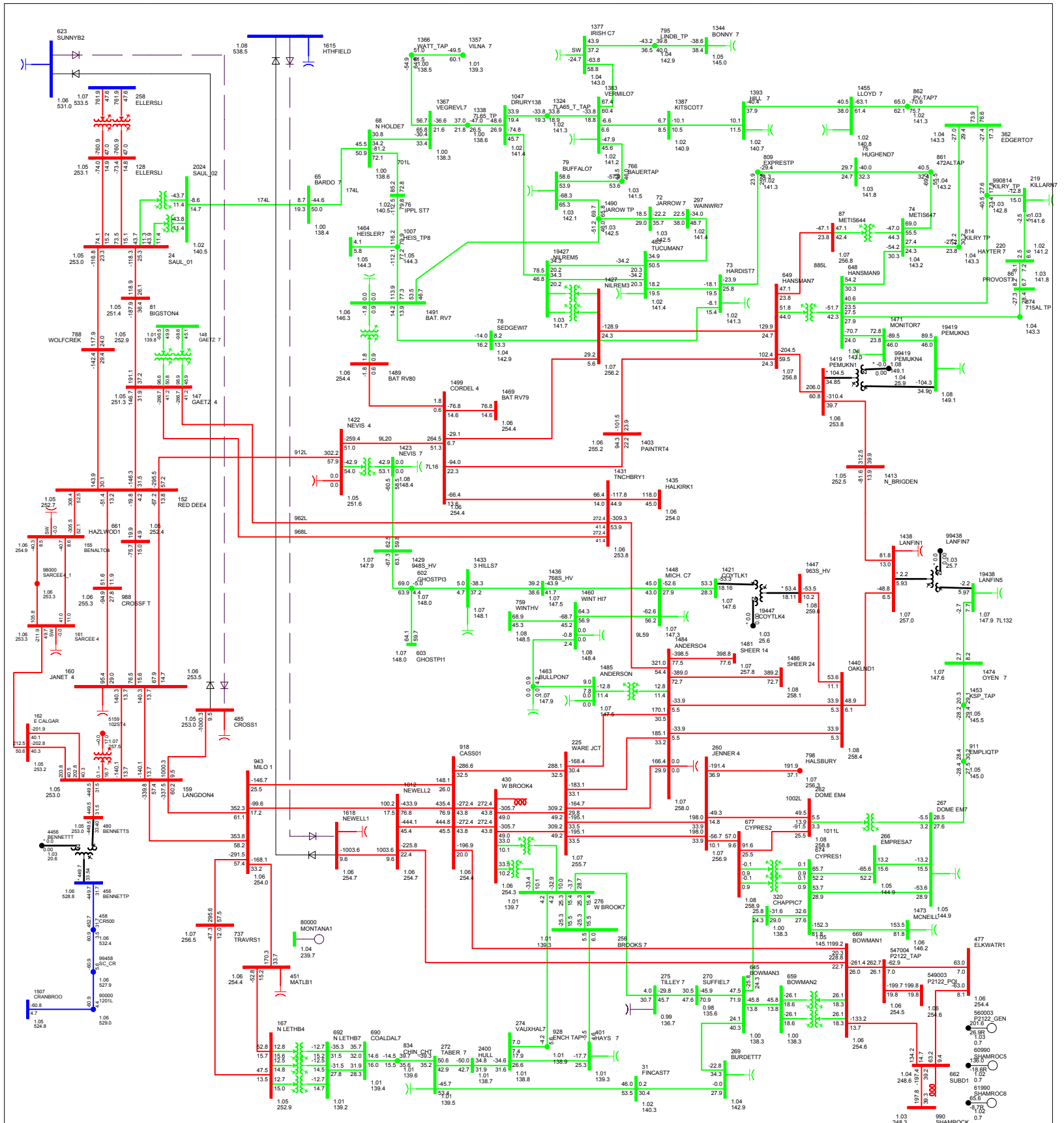
South East: 496.4 MW Central East: 114.6 MW South West: 940.0 MW

FIG. C-56 ;YR:2023S; CASE: H5; GEN SCN 2
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1
CAP: MAXIMIZE
SUN, JUL 12 2020 23:01
Contingency: 966L; Trip Action: None

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

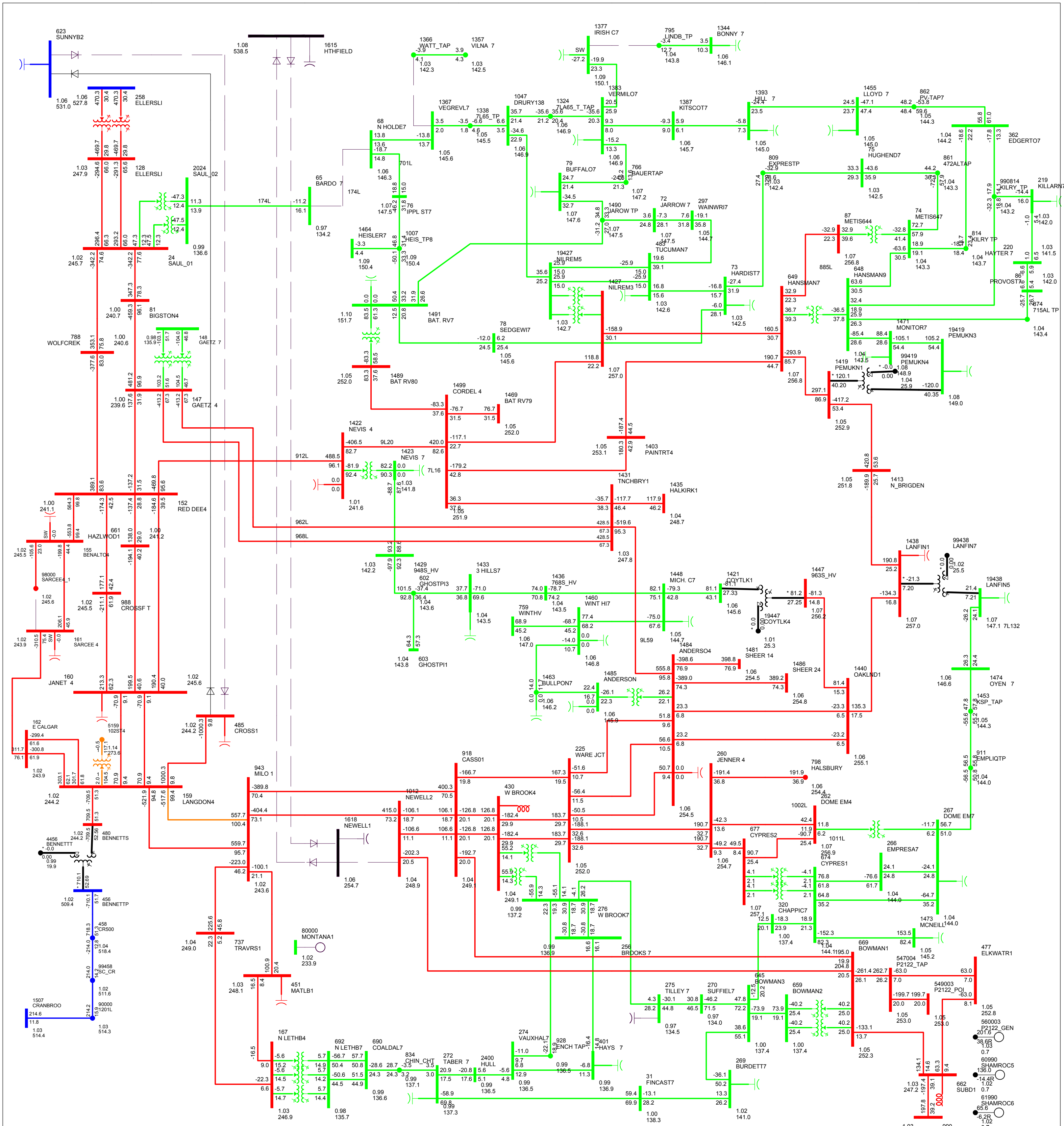
South East: 506.3 MW Central East: 437.3 MW South West: 986.4 MW

FIG. C-57 ,YR:2023S; CASE: H5; GEN SCN 2
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1&2
CAP: MAXIMIZE
SUN, JUL 12 2020 23:01
Contingency: Base; Trip Action: None

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

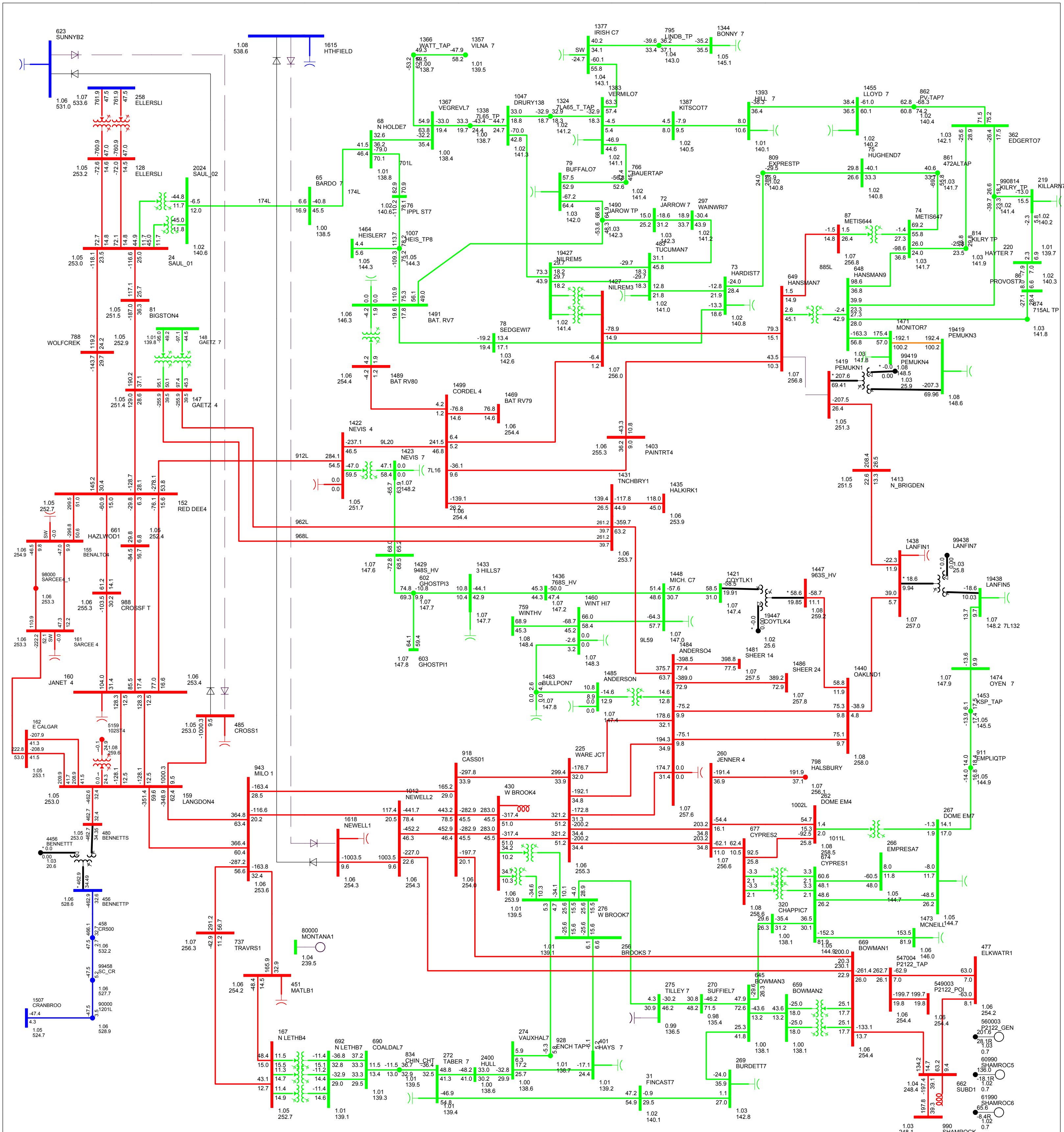
South East: 506.3 MW Central East: 437.3 MW South West: 986.4 MW

FIG. C-58 ;YR:2023S; CASE: H5; GEN SCN 2
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1&2
CAP: MAXIMIZE
SUN, JUL 12 2020 23:02
Contingency: EATL; Trip Action: 174L overload trip, 7L92 overload trip, L274 BC 138kV Tie, 916L overload,Sarcee bus split, 7L53 overload trip

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

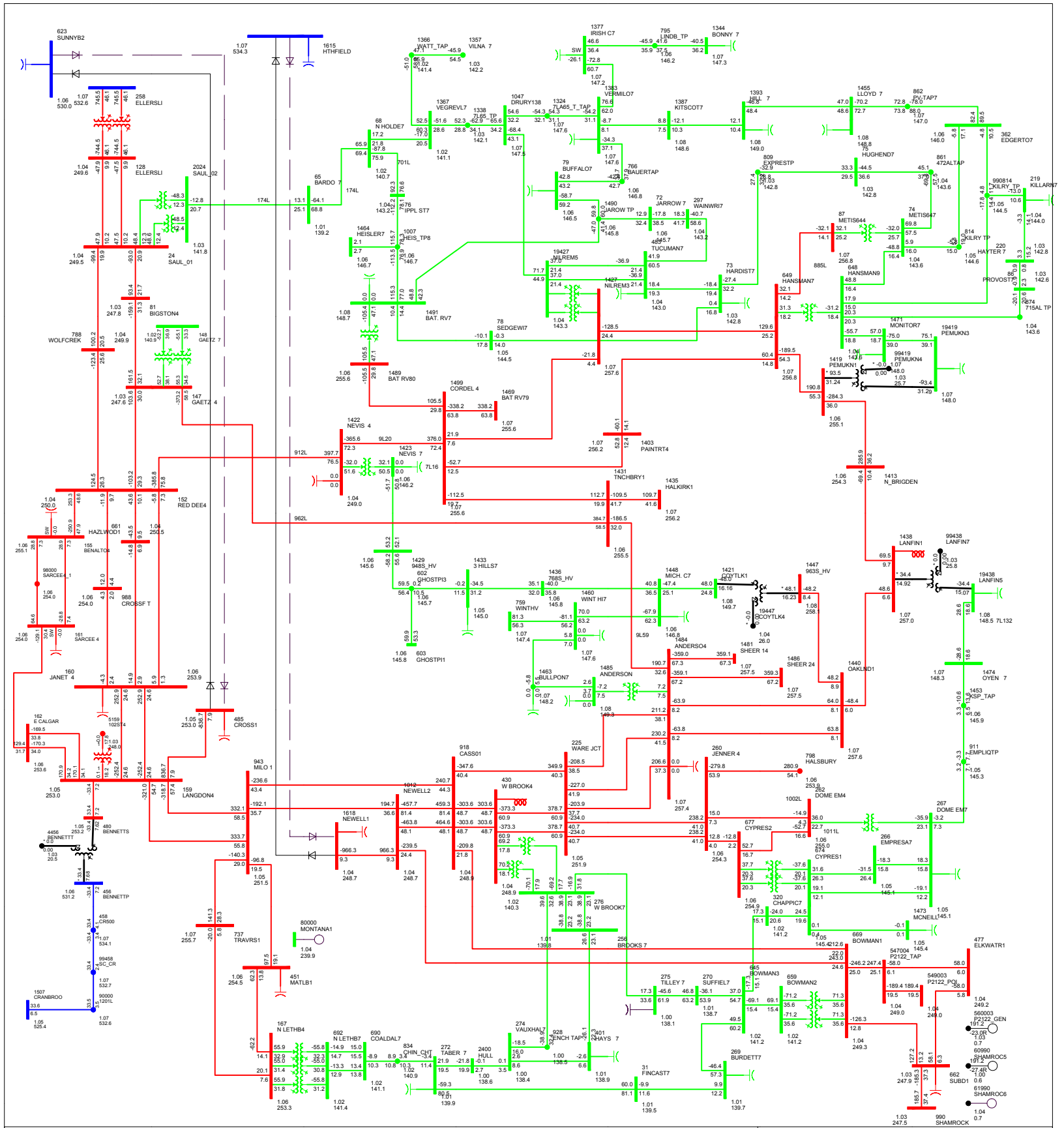
South East: 506.3 MW Central East: 437.3 MW South West: 986.4 MW

FIG. C-59 ;YR:2023S; CASE: H5; GEN SCN 2
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1&2
CAP: MAXIMIZE
SUN, JUL 12 2020 23:03
Contingency: 966L; Trip Action: None

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

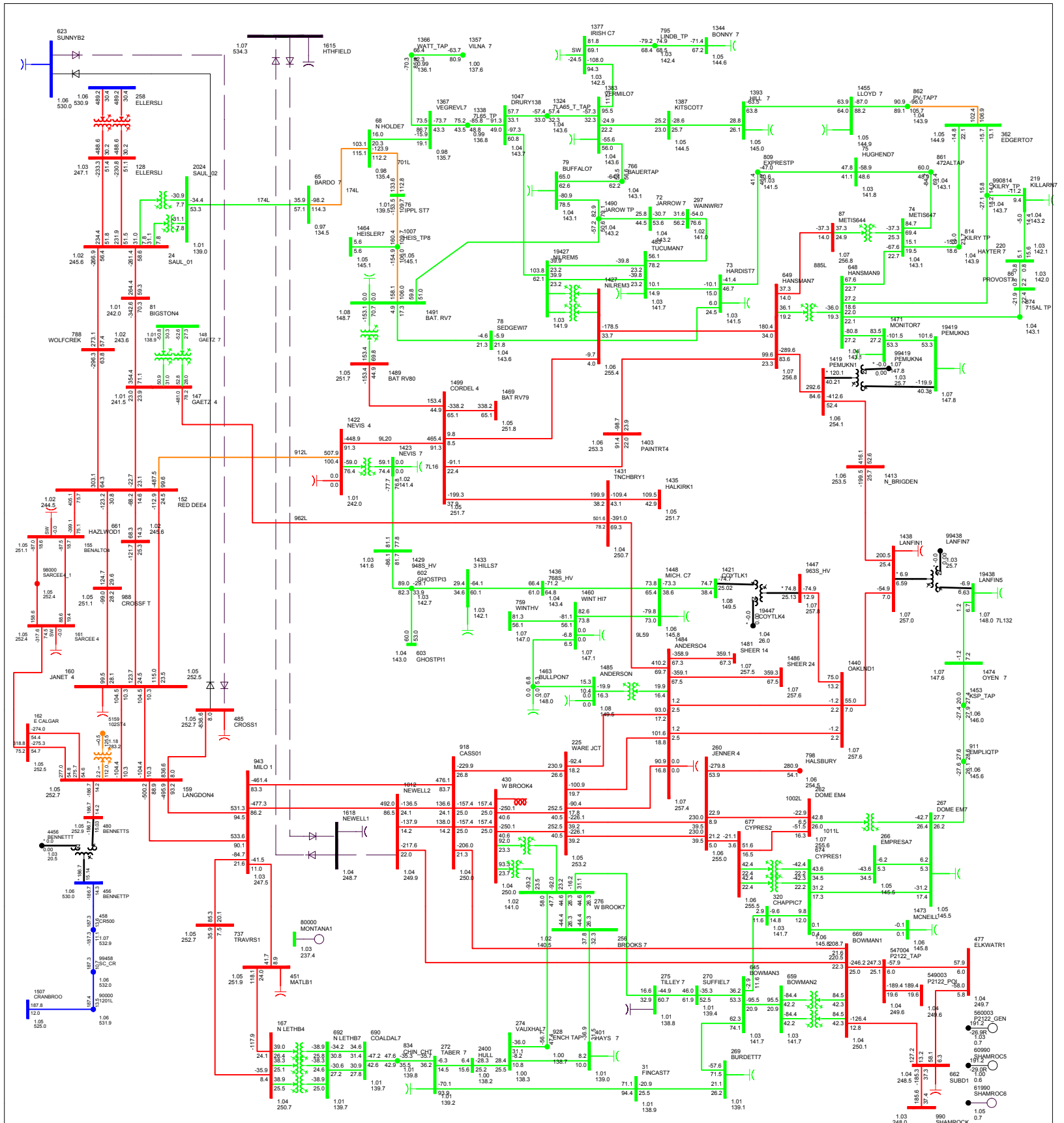
South East: 714.9 MW Central East: 553.3 MW South West: 628.1 MW

FIG: C-60 YR:2023SP; CASE: M4; GEN SCN 1
PROJECT: CETO STAGE1
CAP: MAXIMIZE
WED, JUL 29 2020 9:56
Contingency: Base
Trip Action: None
Genshed=Not Applied

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

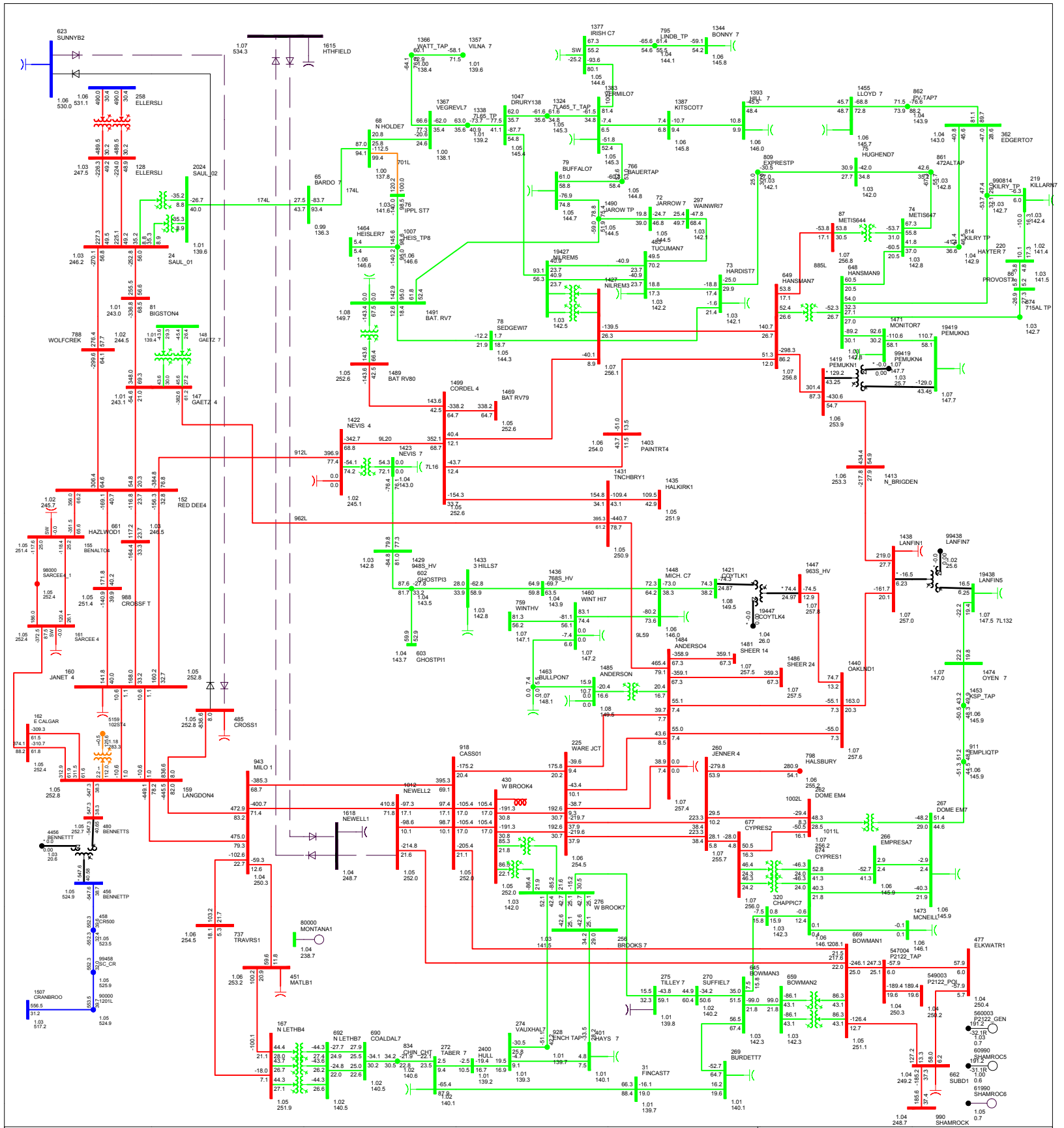
South East: 714.9 MW Central East: 553.3 MW South West: 628.1 MW

FIG: C-61.01 ;YR:2023SP; CASE: M4; GEN SCN 1
PROJECT: CETO STAGE1
CAP: MAXIMIZE
WED, JUL 29 2020 9:56
Contingency: EATL
Trip Action: None
Gensheld=Not Applied

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

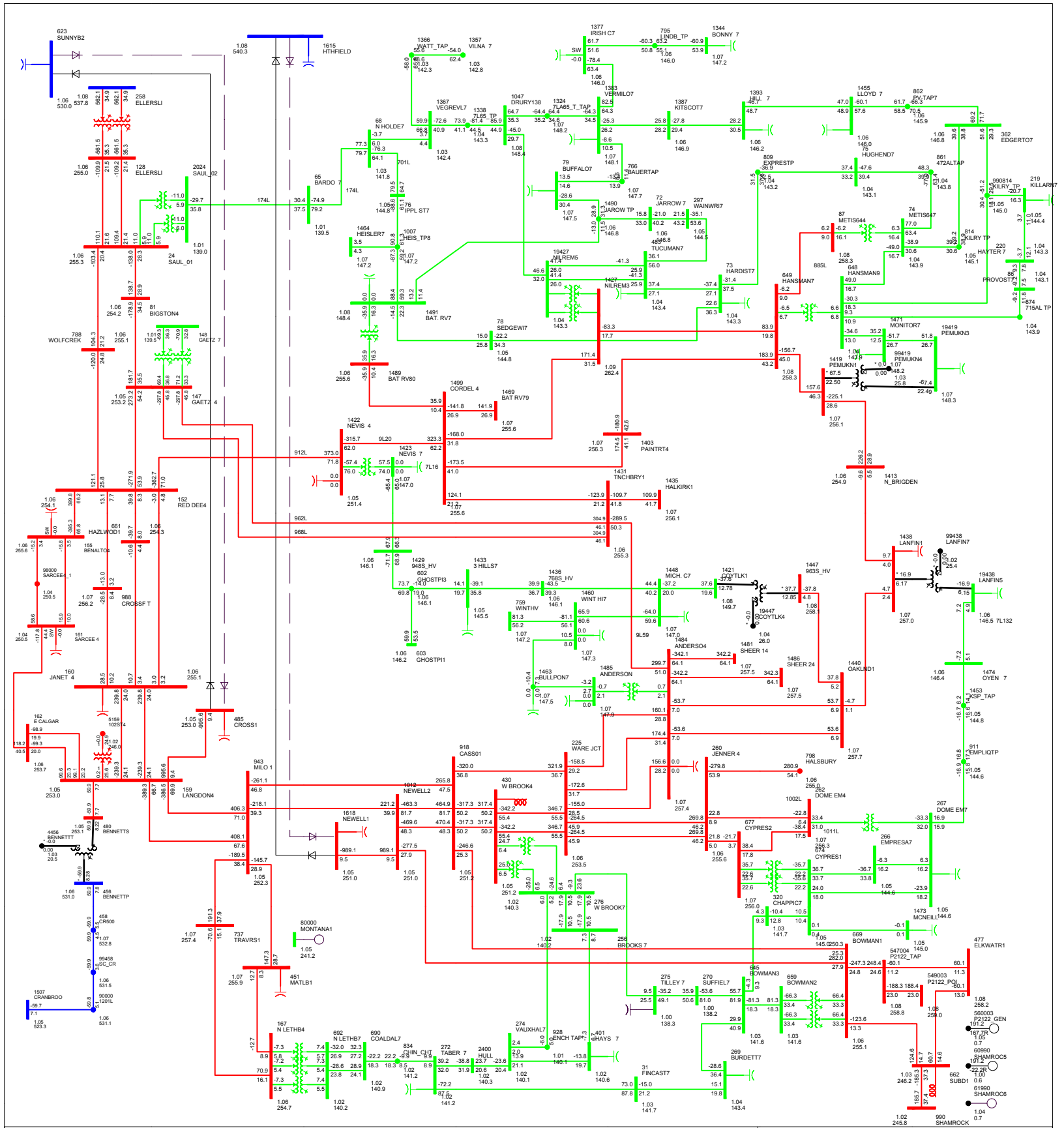
South East: 714.9 MW Central East: 93.3 MW South West: 628.1 MW

FIG: C-61.02 ;FIG. C-61.01 ;YR:2023SP; CASE: M4; GEN SCN 1
PROJECT: CETO STAGE1
CAP: MAXIMIZE
WED, JUL 29 2020 9:56
Contingency: EATL
Trip Action: None
Genshed=HSM:-64,TCHB:-203,LNF:-113,EDGN:-79,Total:-460 MW

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

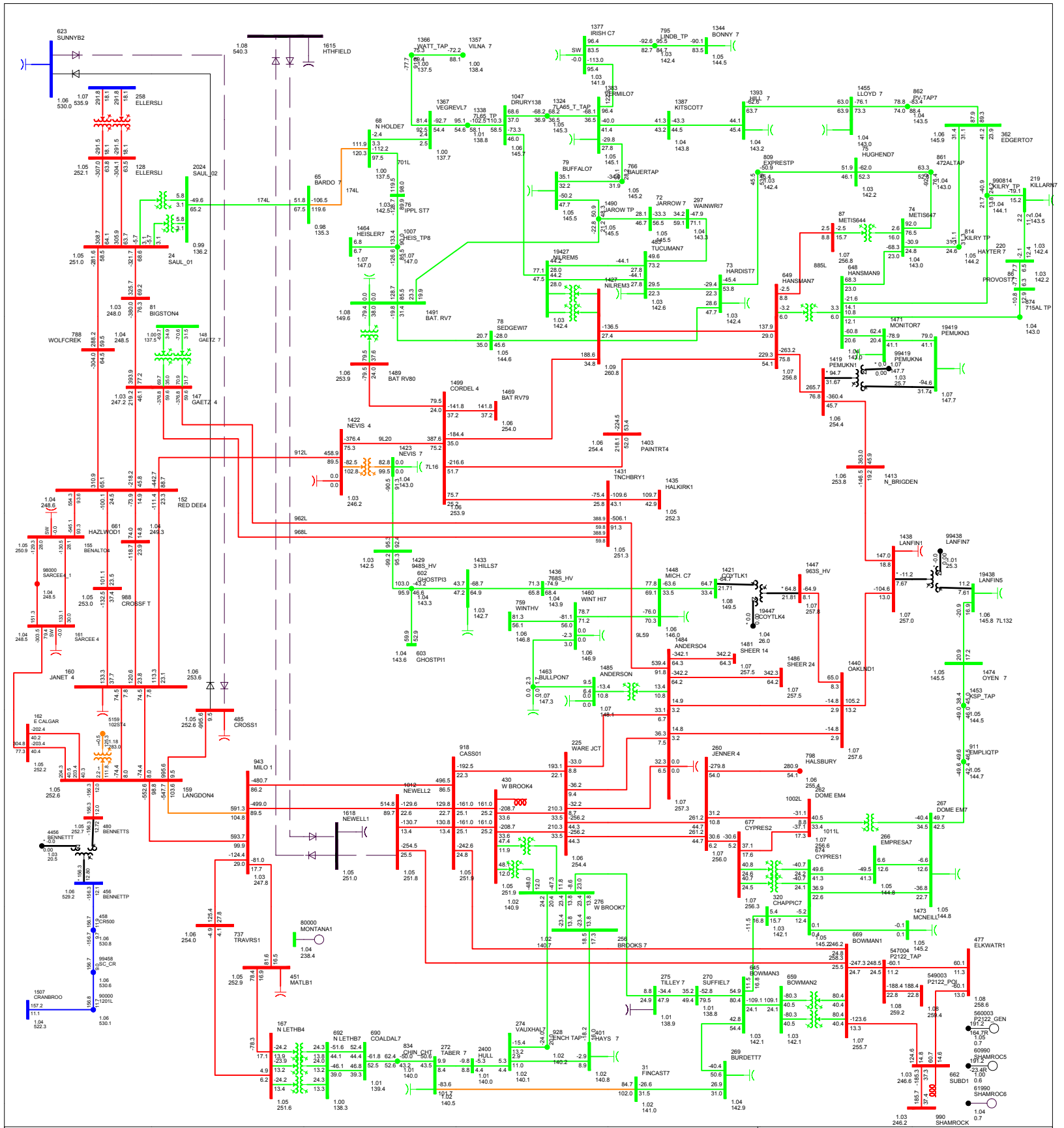
South East: 851.9 MW Central East: 716.7 MW South West: 666.0 MW

FIG: C-62 YR:2023SL: CASE: M5; GEN SCN 1
PROJECT: CETO STAGE1&2
CAP: MAXIMIZE
WED, JUL 29 2020 9:55
Contingency: Base
Trip Action: None
Gensheid=Not Applied

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

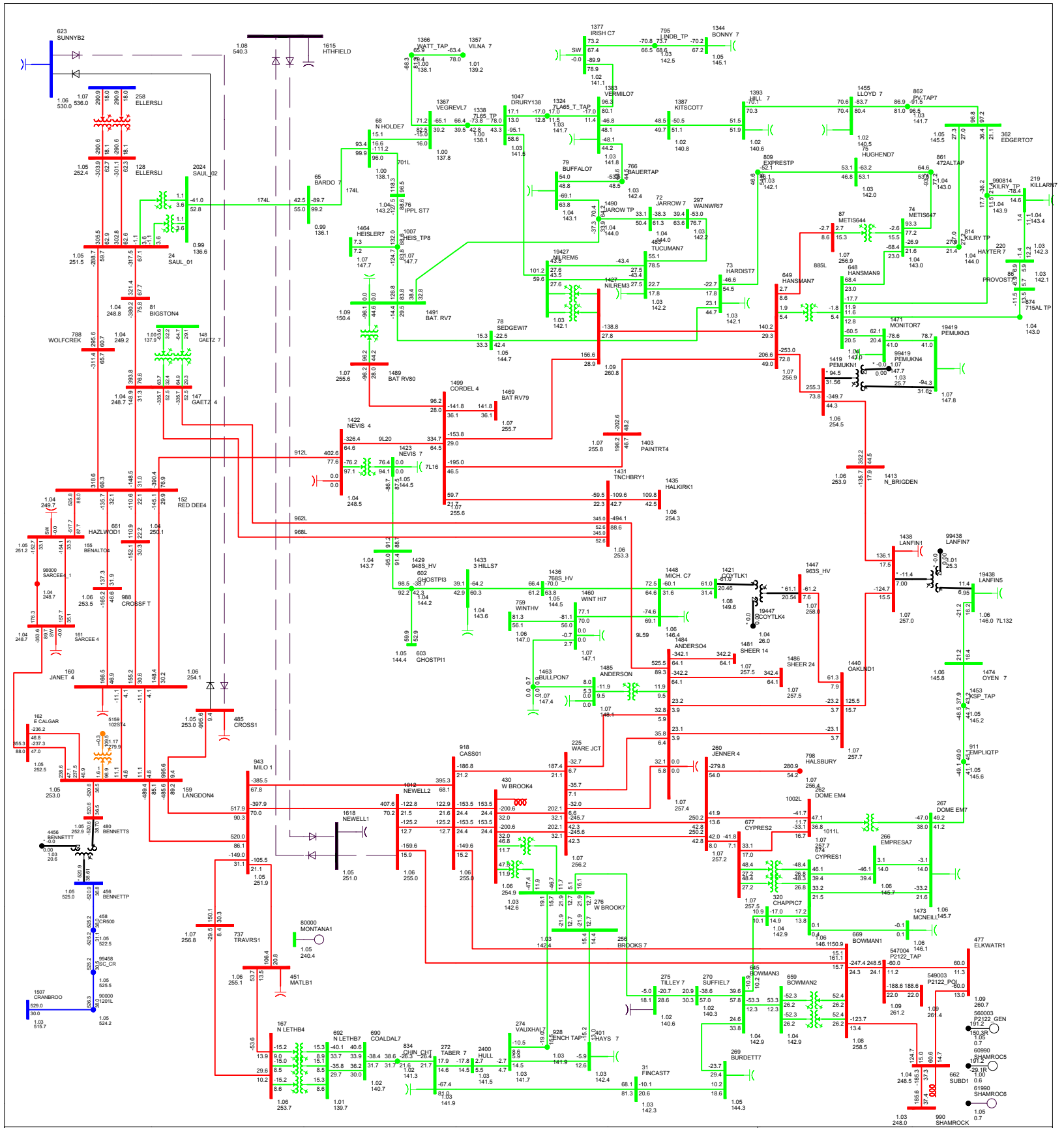
South East: 851.9 MW Central East: 716.7 MW South West: 666.0 MW

FIG: C-63.01 ;YR:2023SL; CASE: M5; GEN SCN 1
PROJECT: CETO STAGE1&2
CAP- MAXIMIZE
WED, JUL 29 2020 9:56
Contingency: EATL
Trip Action: None
Gensheds=Not Applied

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

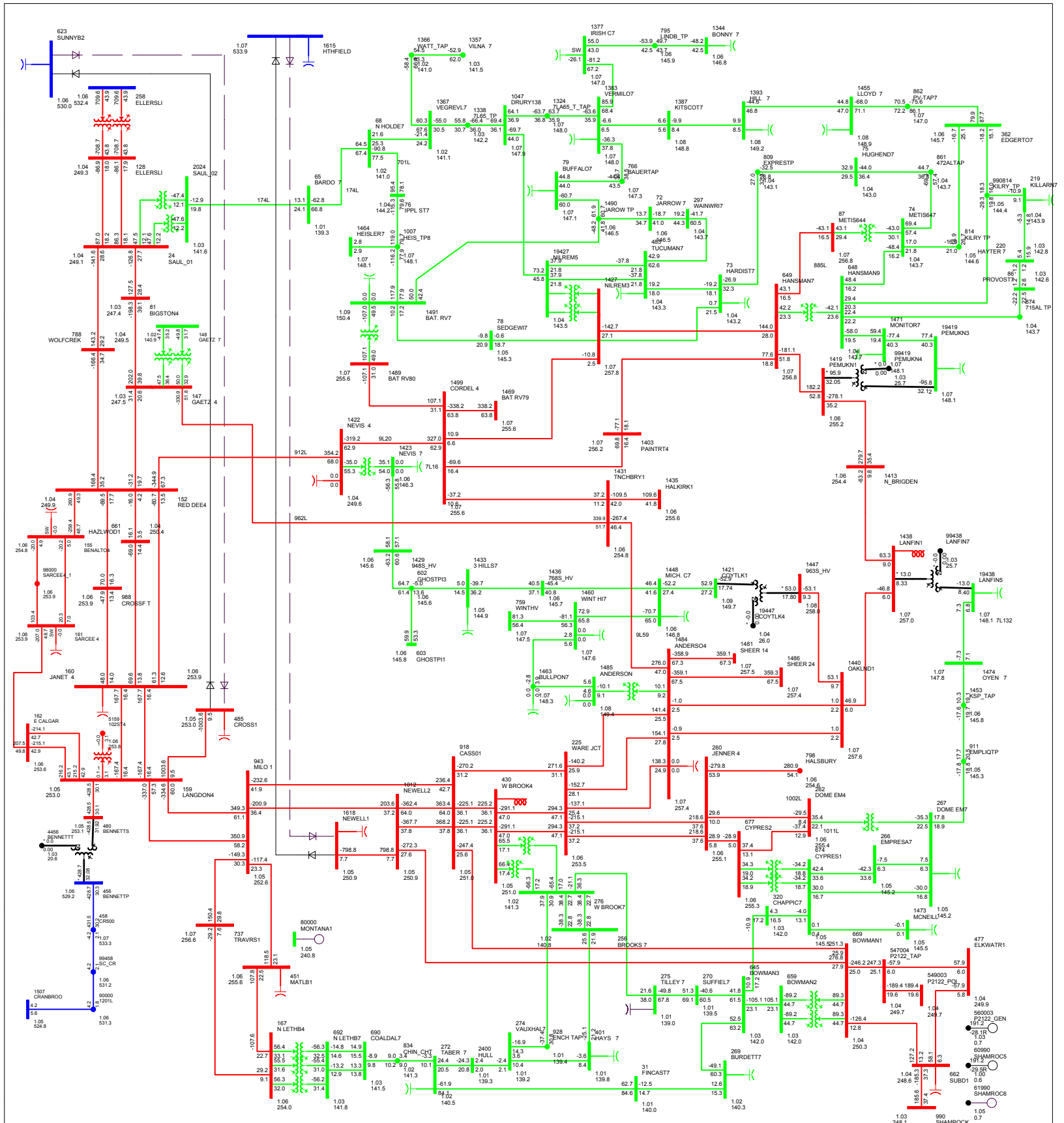
South East: 600.4 MW Central East: 507.0 MW South West: 666.0 MW

FIG: C-63.02_FIG. C-63.01 ;YR:2023SL; CASE: M5; GEN SCN 1
PROJECT: CETO STAGE1&2
CAP- MAXIMIZE
WED, JUL 29 2020 9:56
Contingency: EATL
Trip Action: L274 BC 138kV Tie
Genshed=BOWM:-251,TCHB:-60,LNF:-31,NLR:-11,DRURY:-106,Total:-461 MW

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

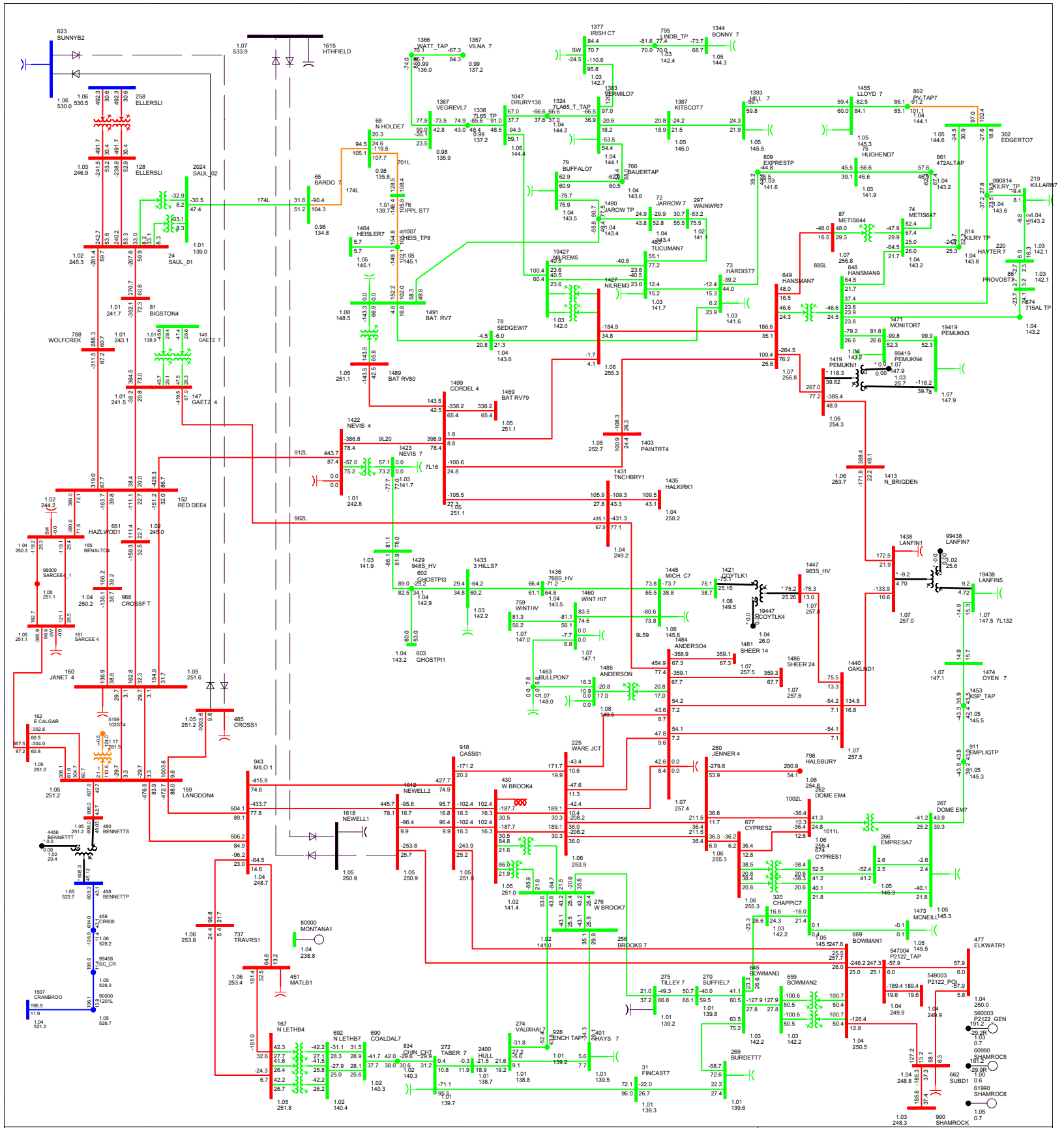
South East: 751.9 MW Central East: 273.6 MW South West: 1139.9 MW

FIG. C-64 :YR:2023SP; CASE: M4: GEN SCN 1
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1
CAP: MAXIMIZE
WED, JUL 29 2020 9:56
Contingency: Base
Trip Action: None
Genshed=Not Applied

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

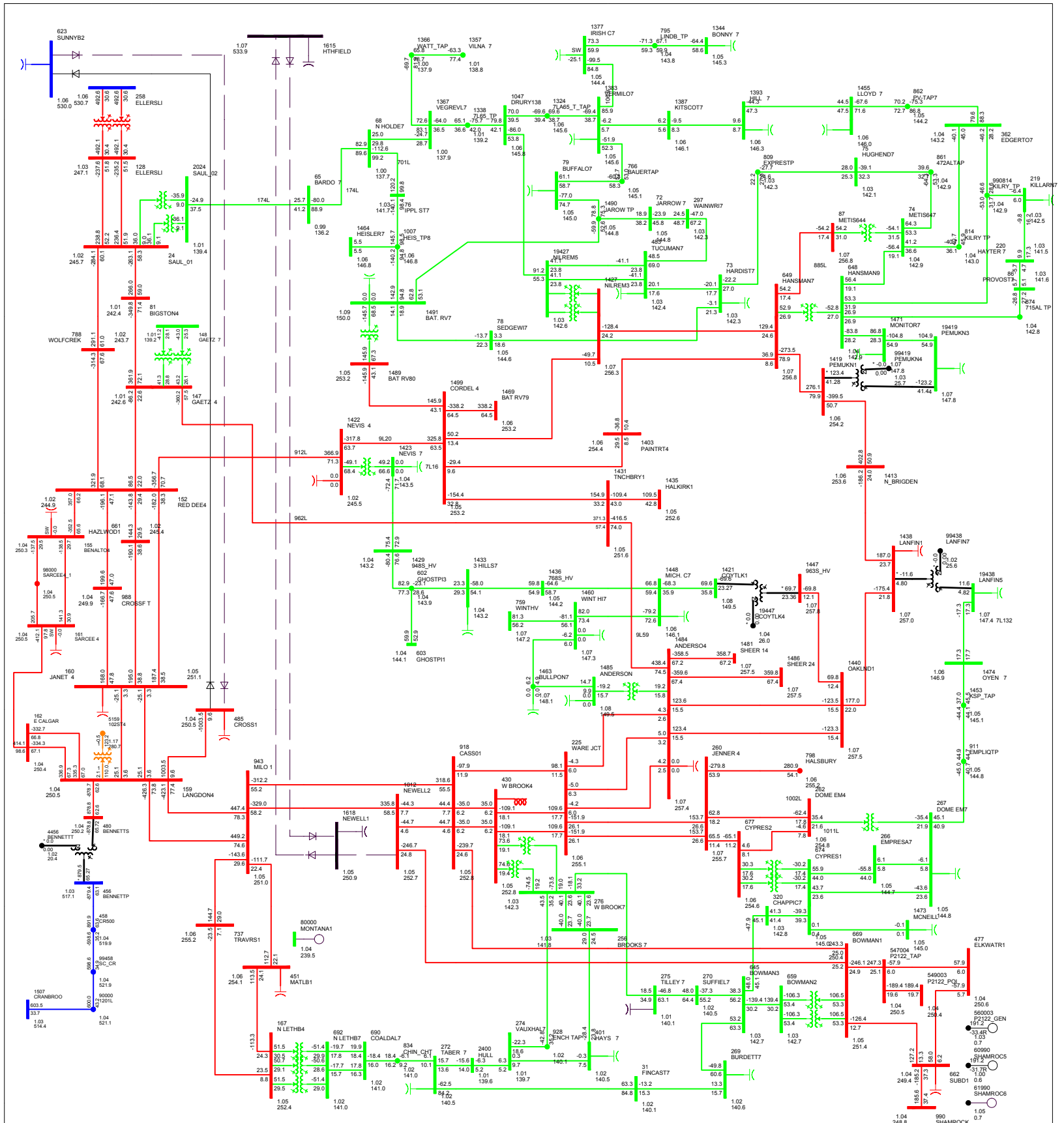
South East: 751.9 MW Central East: 273.6 MW South West: 1139.9 MW

FIG: C-65.01 ;YR:2023SP; CASE: M4: GEN SCN 1
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1
CAP: MAXIMIZE
WED, JUL 29 2020 9:56
Contingency: EATL
Trip Action: None
Genshed=Not Applied

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

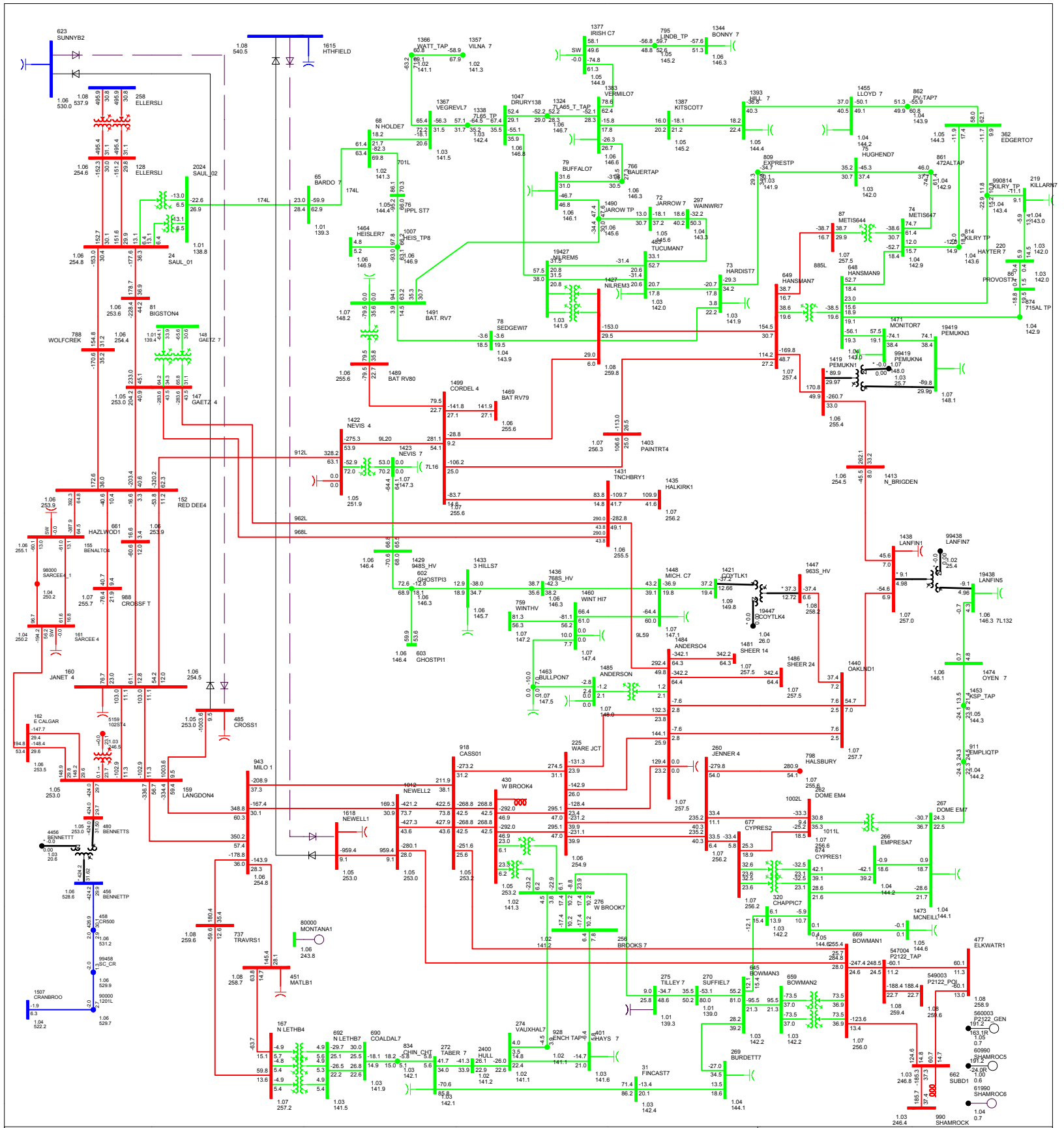
South East: 509.9 MW Central East: 64.7 MW South West: 1139.9 MW

FIG: C-65.02_FIG. C-65.01 :YR:2023SP; CASE: M4; GEN SCN 1
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1
CAP: MAXIMIZE
WED, JUL 29 2020 9:56
Contingency: EATL
Trip Action: L274 BC 138kV Tie
Genshed=JNR:-61,CPRS:-77,OKLD:-102,HSM:-127,LNF:-29,EDGN:-52,Total:-450 MW

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

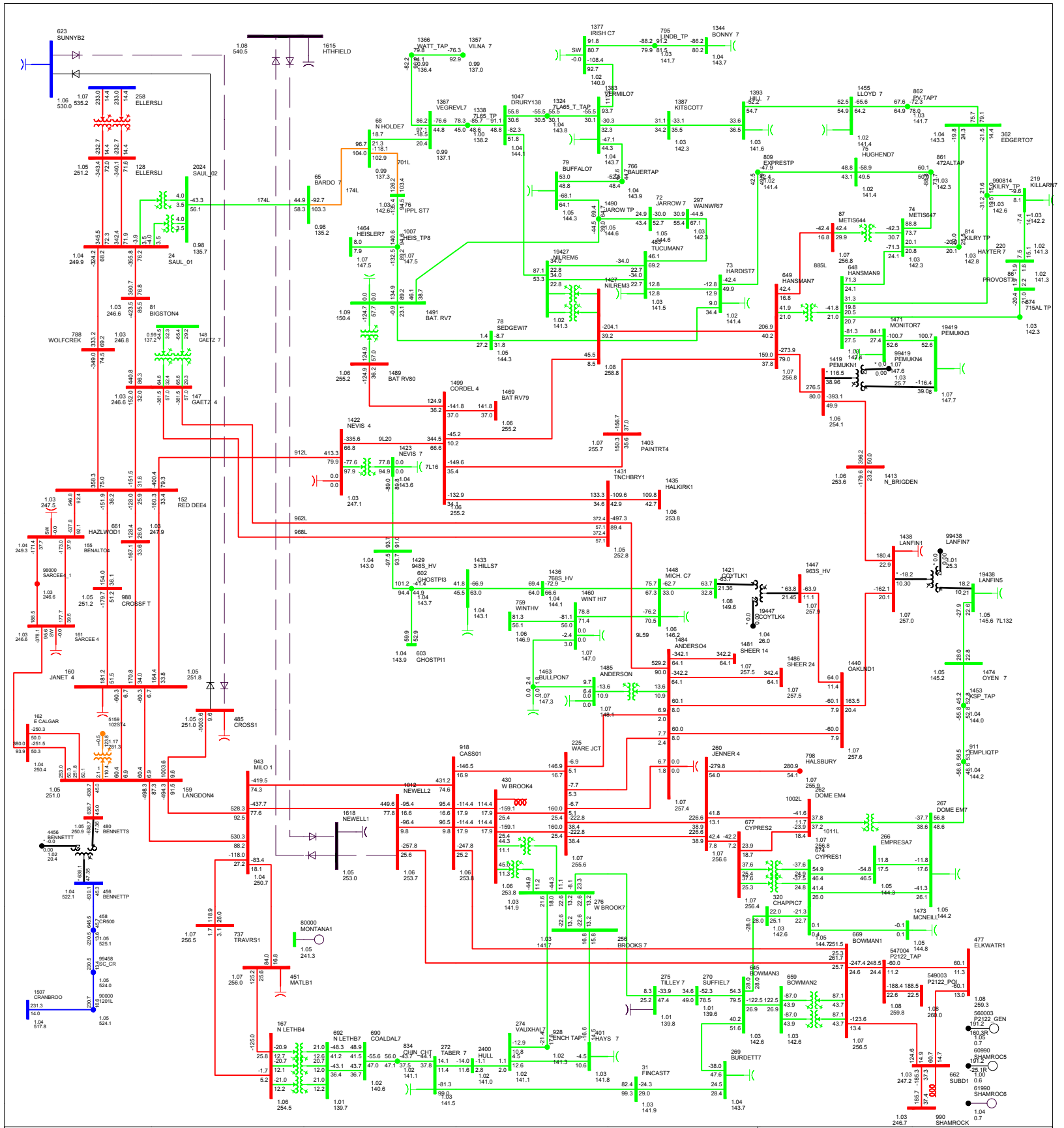
South East: 761.7 MW Central East: 559.1 MW South West: 1025.8 MW

FIG: C-66 YR:2023SL: CASE: M5; GEN SCN 1
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1&2
CAP: MAXIMIZE
WED, JUL 29 2020 9:56
Contingency: Base
Trip Action: None
Gensheid=Not Applied

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

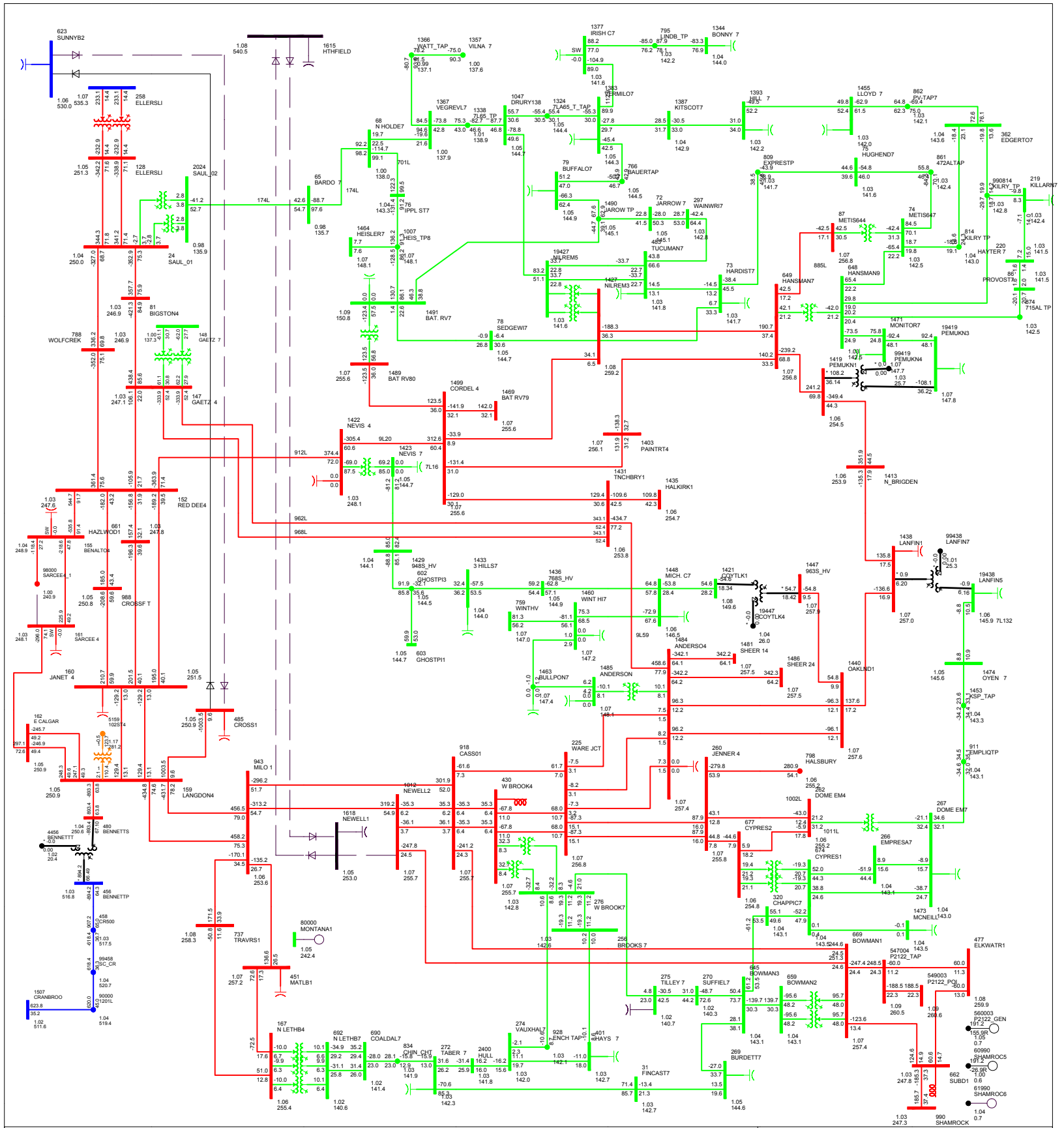
South East: 761.7 MW Central East: 559.1 MW South West: 1025.8 MW

FIG: C-67.01 ;YR:2023SL; CASE: M5; GEN SCN 1
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1&2
CAP: MAXIMIZE
WED, JUL 29 2020 9:56
Contingency: EATL
Trip Action: None
Gensheid=Not Applied

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

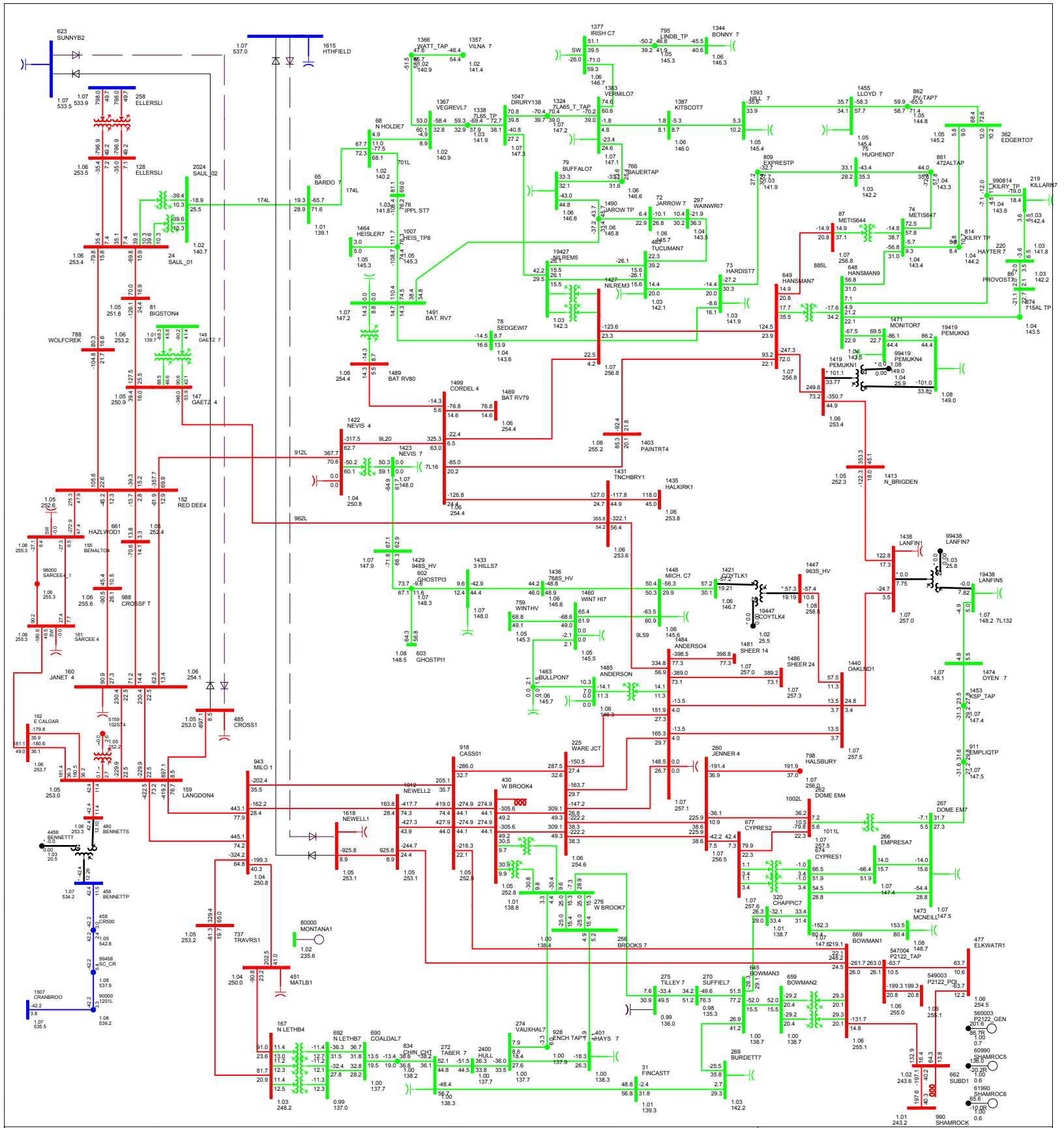
South East: 319.6 MW Central East: 559.1 MW South West: 1025.8 MW

FIG: C-67.02 ;FIG. C-67.01 ;YR:2023SL; CASE: M5; GEN SCN 1
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1&2
CAP: MAXIMIZE
WED, JUL 29 2020 9:56
Contingency: EATL
Trip Action: L274 BC 138kV Tie, 916L overload,Sarcee bus split
Genshed=JNR:-276,CPRS:-57,OKLD:-108,Total:-442 MW

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

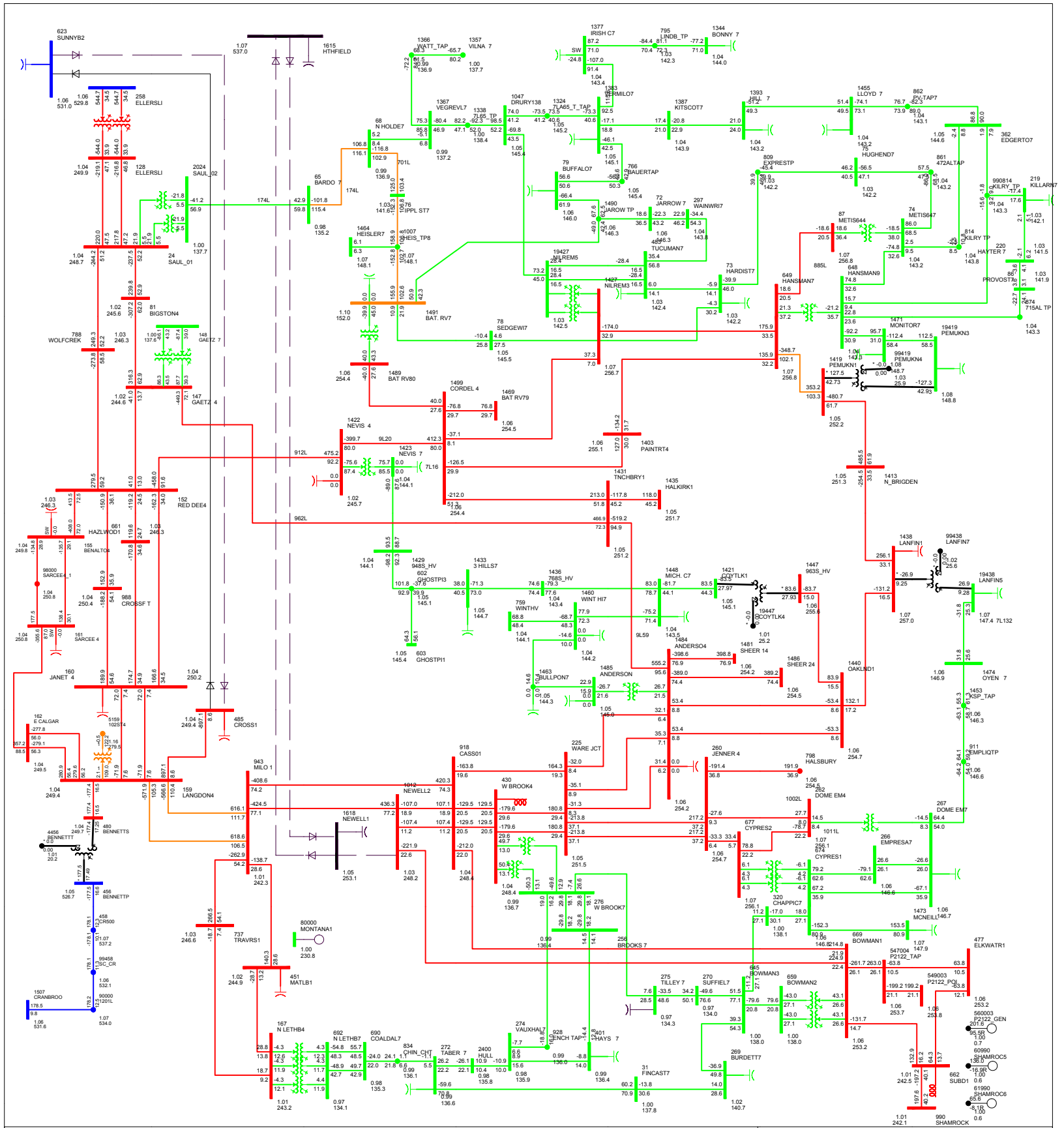
South East: 552.2 MW Central East: 341.8 MW South West: 716.7 MW

FIG: C-68 :YR:2023S; CASE: H5; GEN SCN 2
PROJECT: CETO STAGE1
CAP: MAXIMIZE
WED, JUL 22 2020 12:56
Contingency: Base
Trip Action: None
Genshed=Not Applied

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

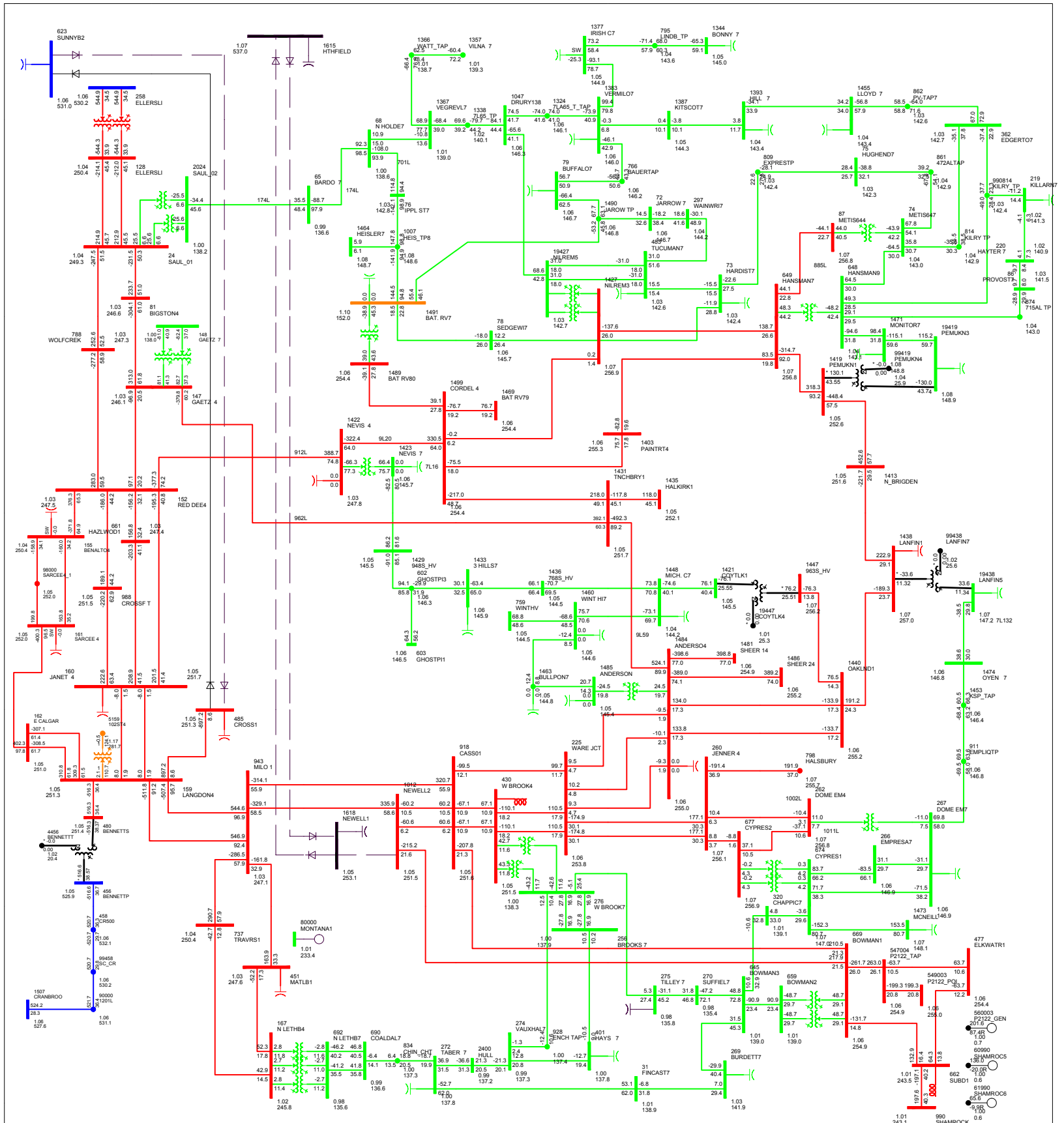
South East: 552.2 MW Central East: 341.8 MW South West: 716.7 MW

FIG: C-69.01 ;YR:2023S; CASE: H5; GEN SCN 2
PROJECT: CETO STAGE1
CAP: MAXIMIZE
WED, JUL 22 2020 12:56
Contingency: EATL
Trip Action: None
Gensheds=Not Applied

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

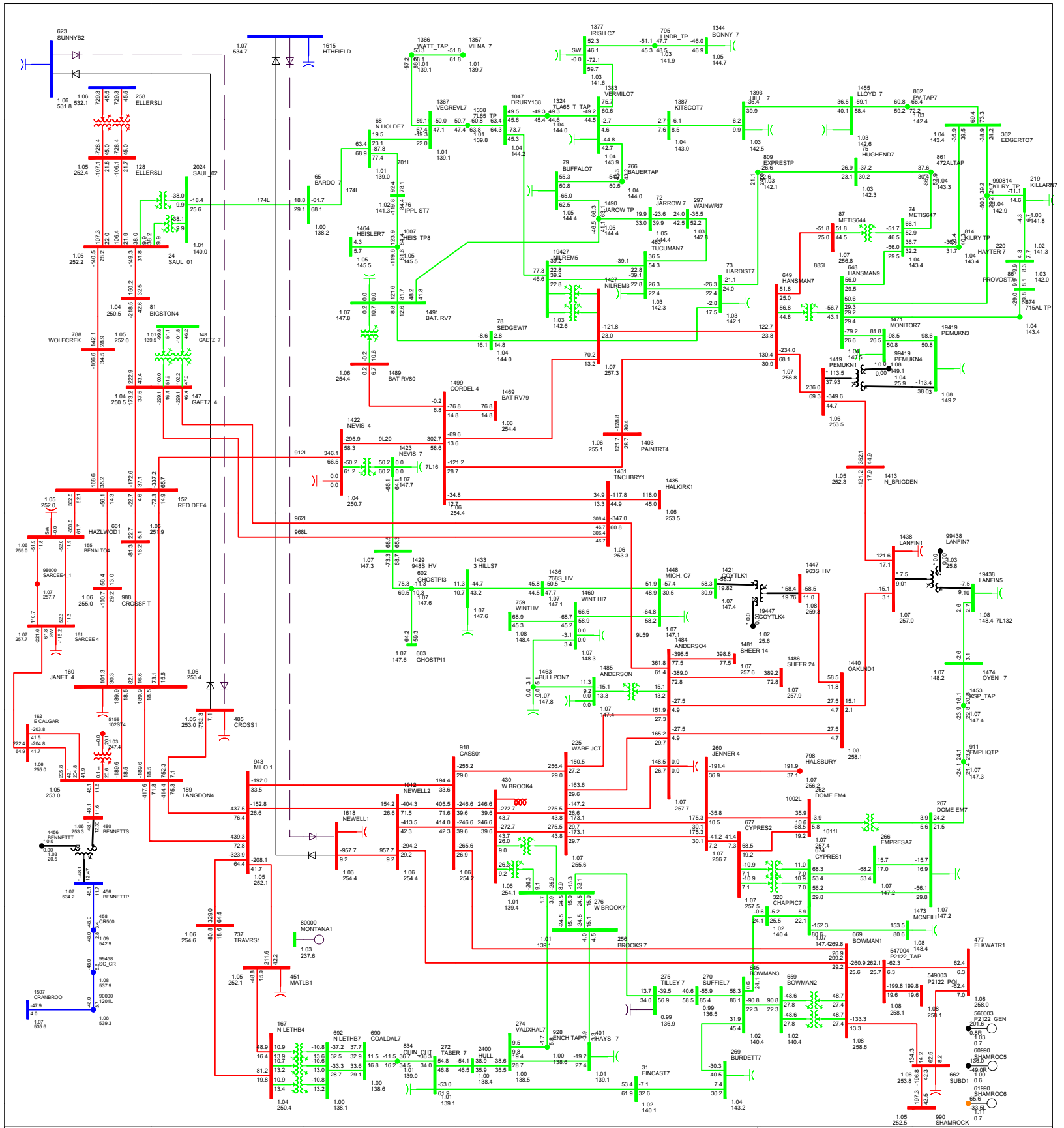
South East: 344.4 MW Central East: 94.2 MW South West: 716.7 MW

FIG: C-69.02_FIG. C-69.01 ;YR:2023S; CASE: H5; GEN SCN 2
PROJECT: CETO STAGE1
CAP: MAXIMIZE
WED, JUL 22 2020 12:56
Contingency: EATL
Trip Action: None
Genshed=CPRS:-97,OKLD:-110,HSM: -3,TCHB:-43,LNF:-99,DRURY: -9,EDGN:-92,Total:-455 MW

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

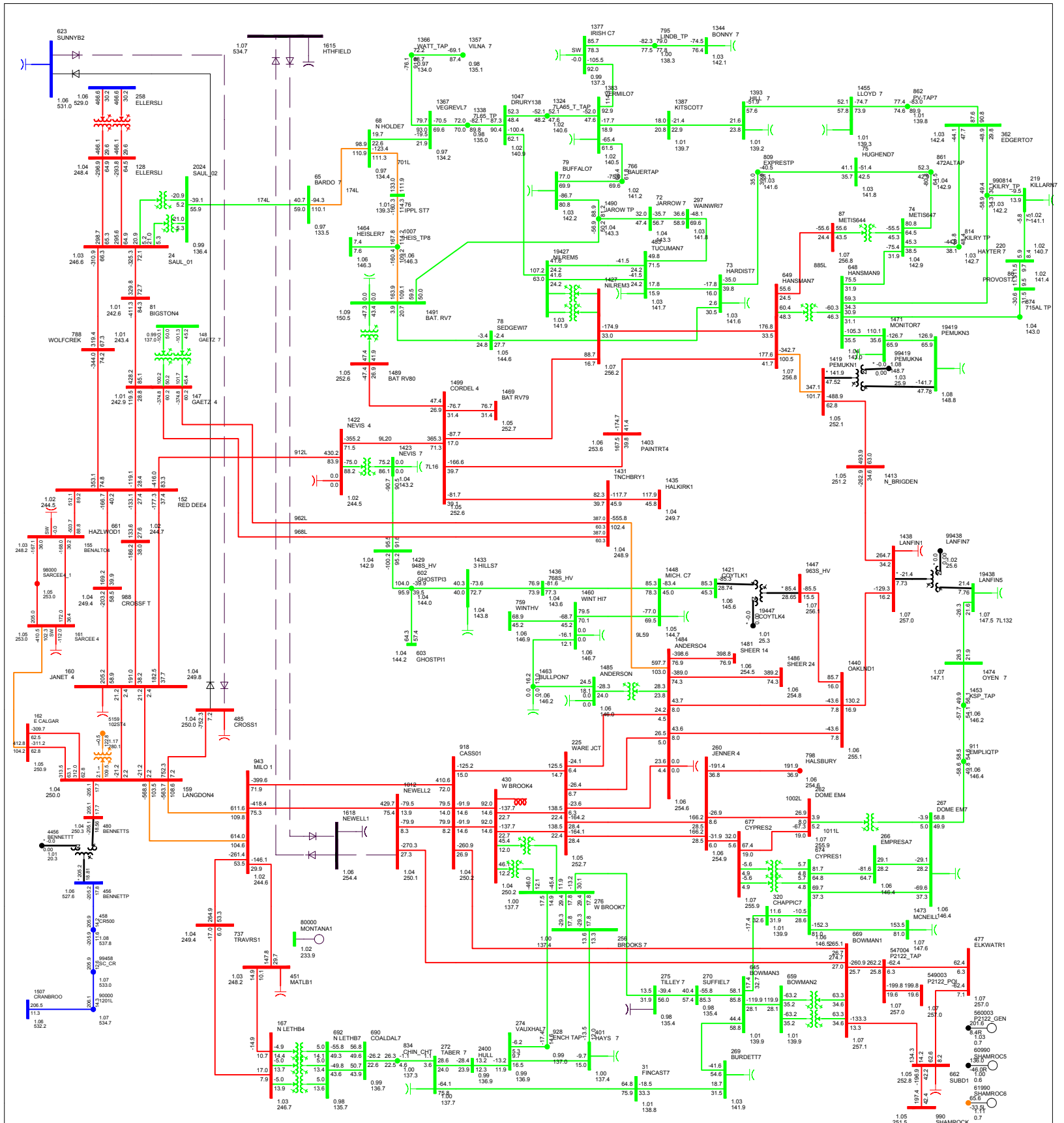
South East: 575.1 MW Central East: 580.7 MW South West: 703.4 MW

FIG: C-70 :YR:2023S; CASE: H5; GEN SCN 2
PROJECT: CETO STAGE1&2
CAP: MAXIMIZE
WED, JUL 22 2020 12:56
Contingency: Base
Trip Action: None
Gensched=Not Applied

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

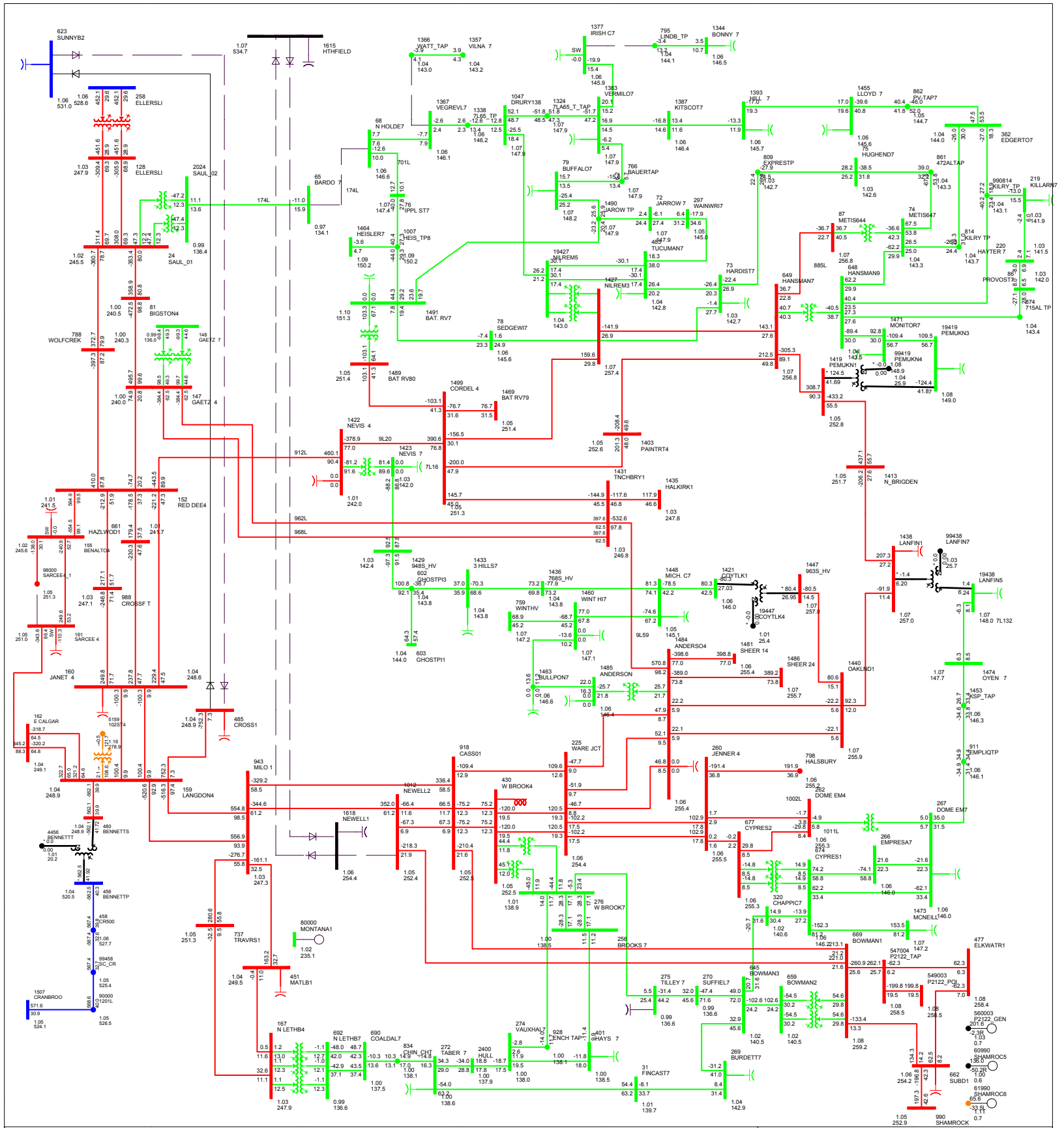
South East: 575.1 MW Central East: 580.7 MW South West: 703.4 MW

FIG: C-71.01 ;YR:2023S; CASE: H5; GEN SCN 2
PROJECT: CETO STAGE1&2
CAP: MAXIMIZE
WED, JUL 22 2020 12:56
Contingency: EATL
Trip Action: None
Gensheds=Not Applied

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

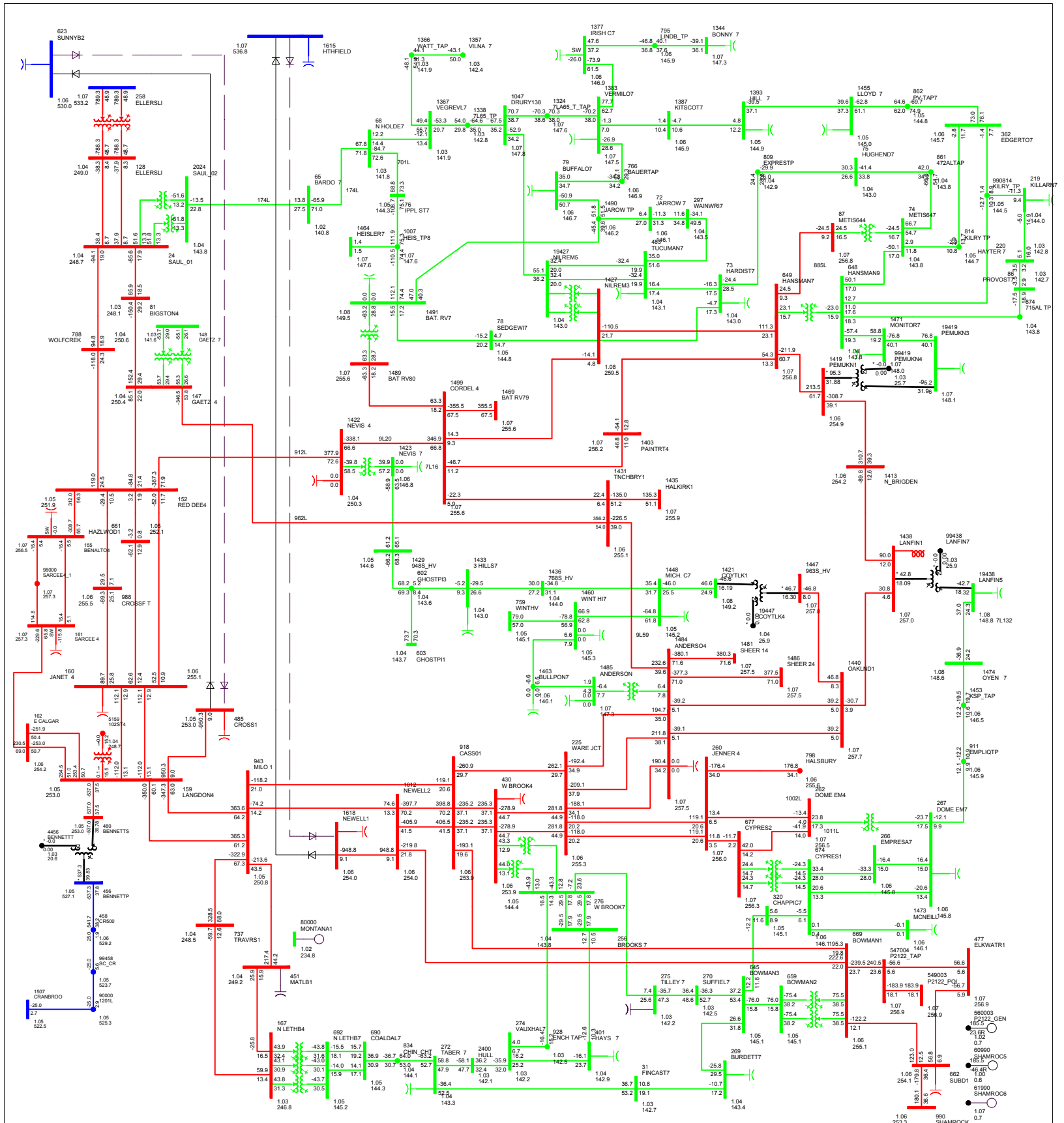
South East: 294.9 MW Central East: 395.8 MW South West: 703.4 MW

FIG: C-71.02 ;FIG. C-71.01 ;YR:2023S; CASE: H5; GEN SCN 2
PROJECT: CETO STAGE1&2
CAP: MAXIMIZE
WED, JUL 22 2020 12:56
Contingency: EATL
Trip Action: 916L overload,Sarcee bus split, 174L overload trip, 7L92 overload trip, 7L53 overload trip
Genshed=BOWM:-124,JNR:-66,CPRS:-88,TCHB:-184,Total:-465 MW

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

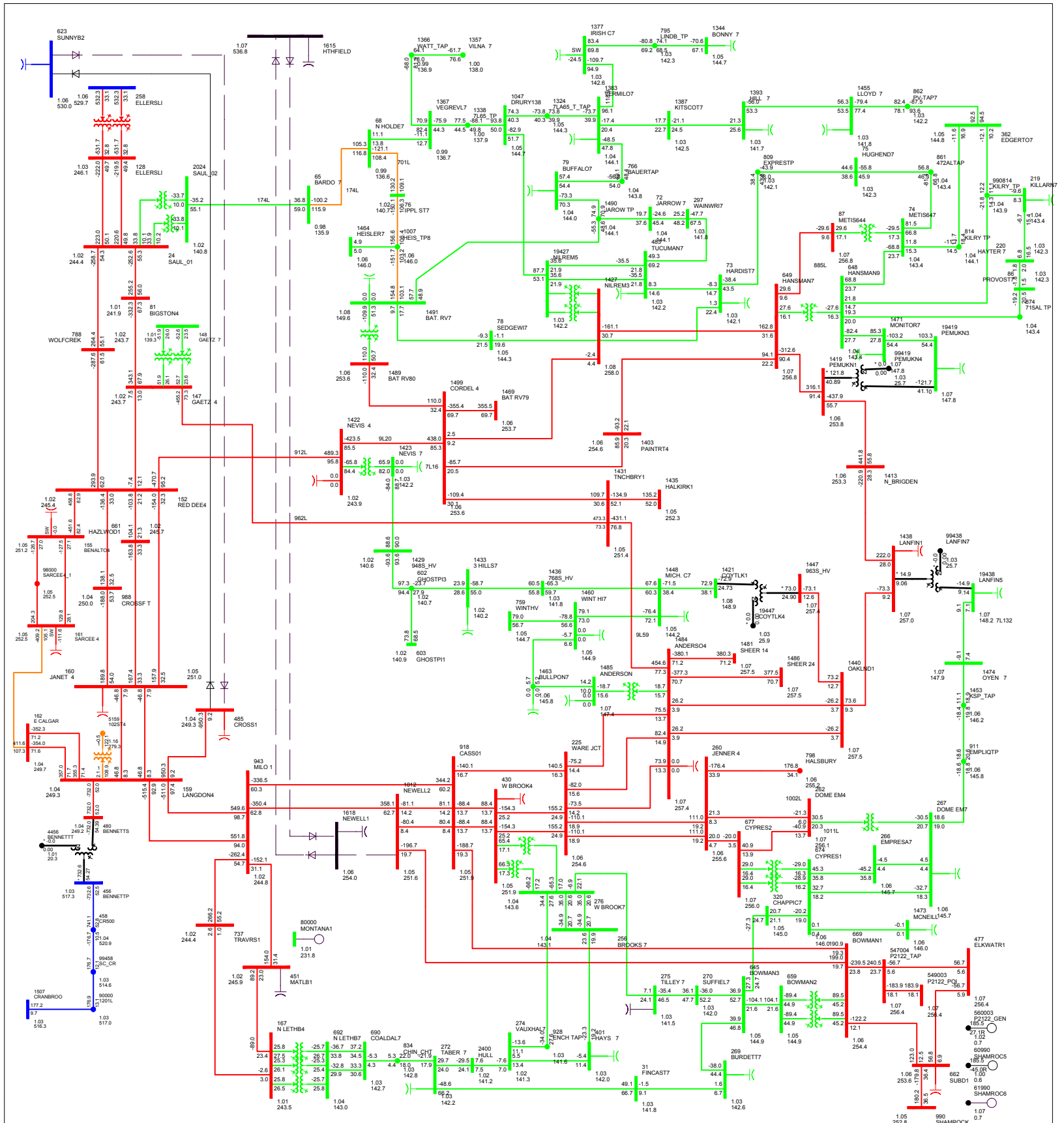
South East: 487.2 MW Central East: 346.2 MW South West: 1145.7 MW

FIG: C-72: YR:2023SP; CASE: H2; GEN SCN 2
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1
CAP: MAXIMIZE
WED, JUL 22 2020 12:55
Contingency: Base
Trip Action: None
Gensheds=Not Applied

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

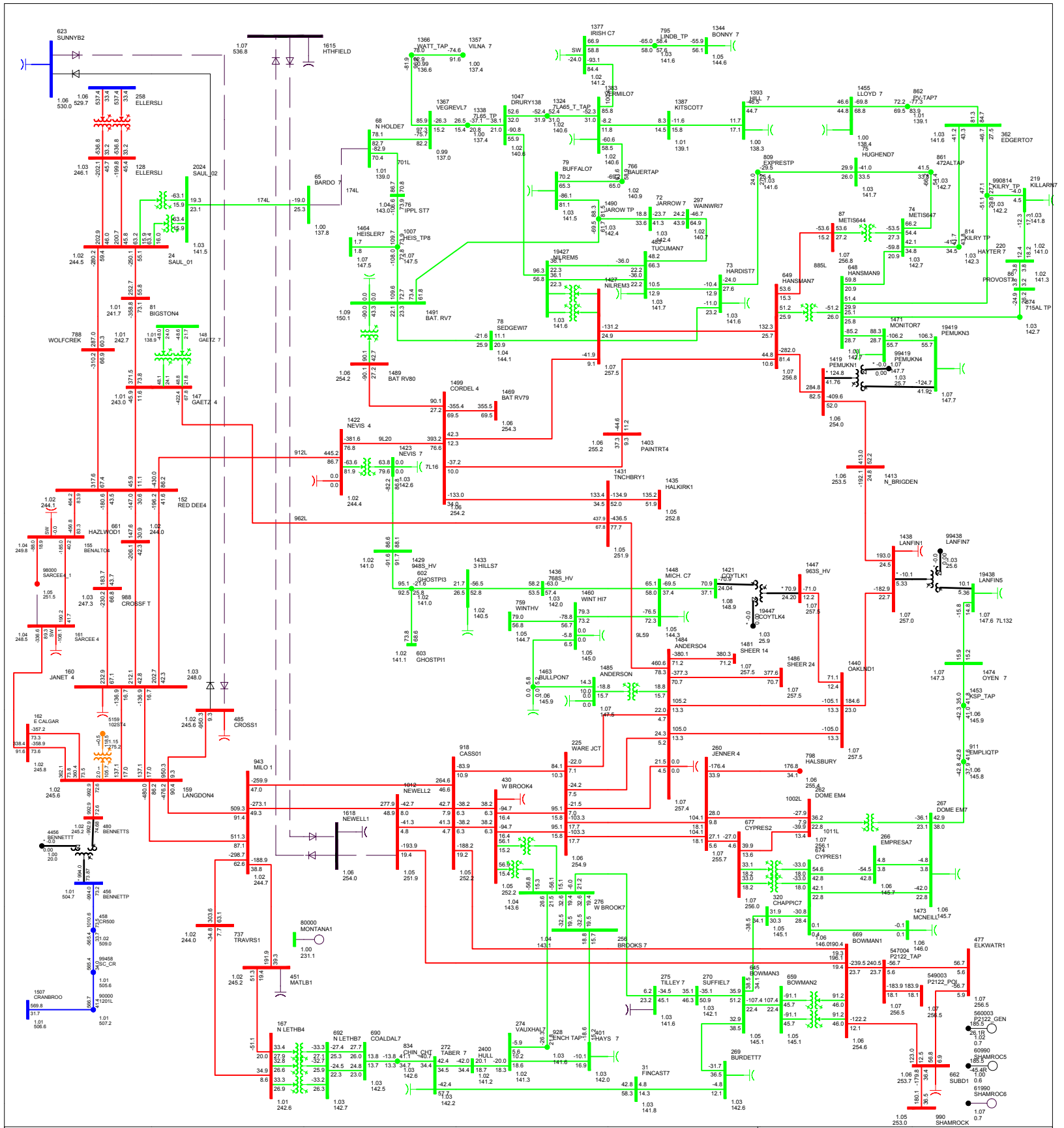
South East: 487.2 MW Central East: 346.2 MW South West: 1145.7 MW

FIG: C-73.01 ;YR:2023SP; CASE: H2; GEN SCN 2
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1
CAP: MAXIMIZE
WED, JUL 22 2020 12:55
Contingency: EATL
Trip Action: None
Genshed=Not Applied

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

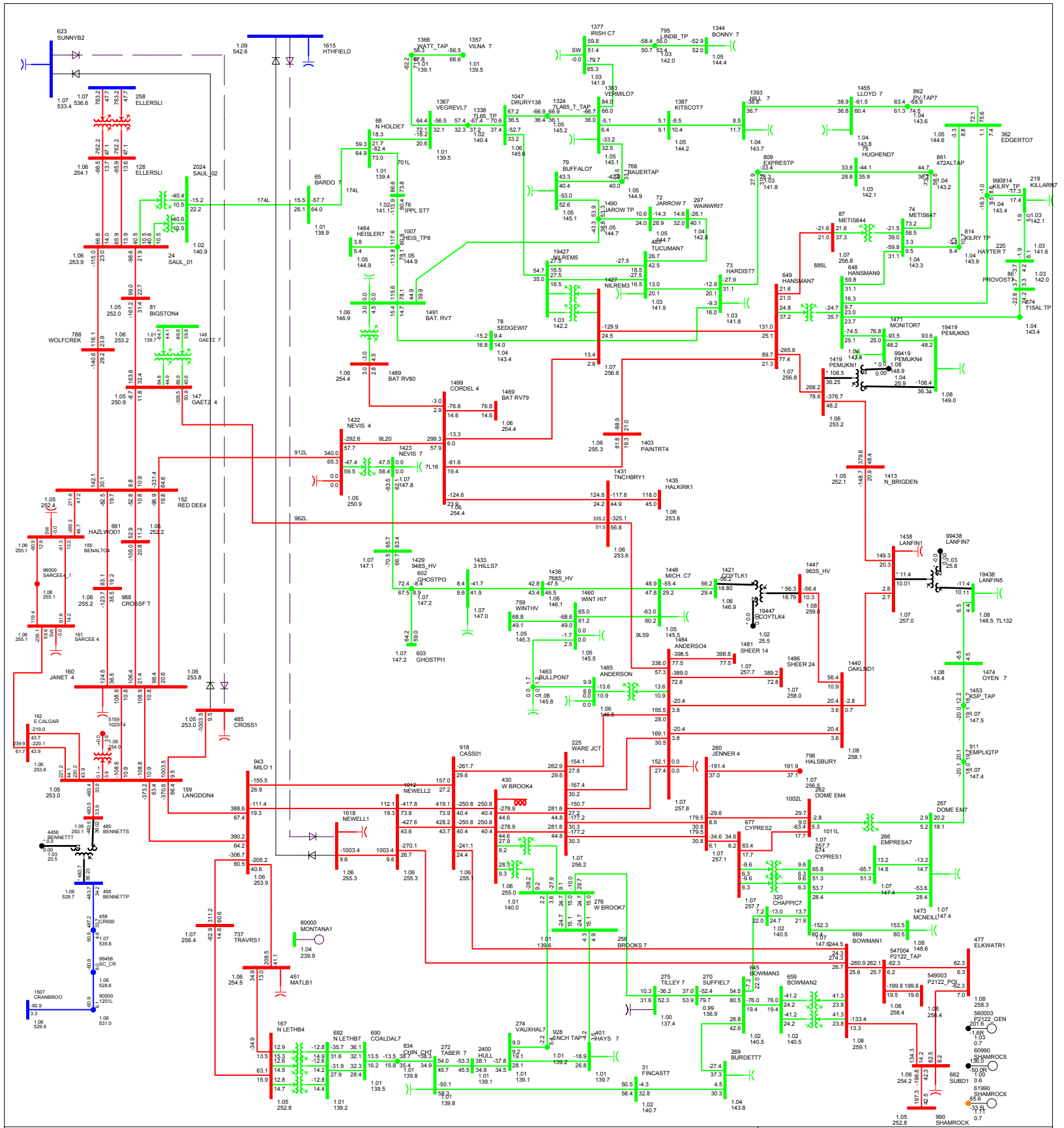
South East: 437.8 MW Central East: 0.1 MW South West: 1145.7 MW

FIG: C-73.02_FIG. C-73.01 :YR:2023SP; CASE: H2: GEN SCN 2
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1
CAP: MAXIMIZE
WED, JUL 22 2020 12:55
Contingency: EATL
Trip Action: L274 BC 138kV Tie, 916L overload,Sarcee bus split, 174L overload trip
Genshed=OKLD:-49,HSM: -1,TCHB:-17,LNF:-165,DRURY:-85,EDGN:-76,Total:-395 MW

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

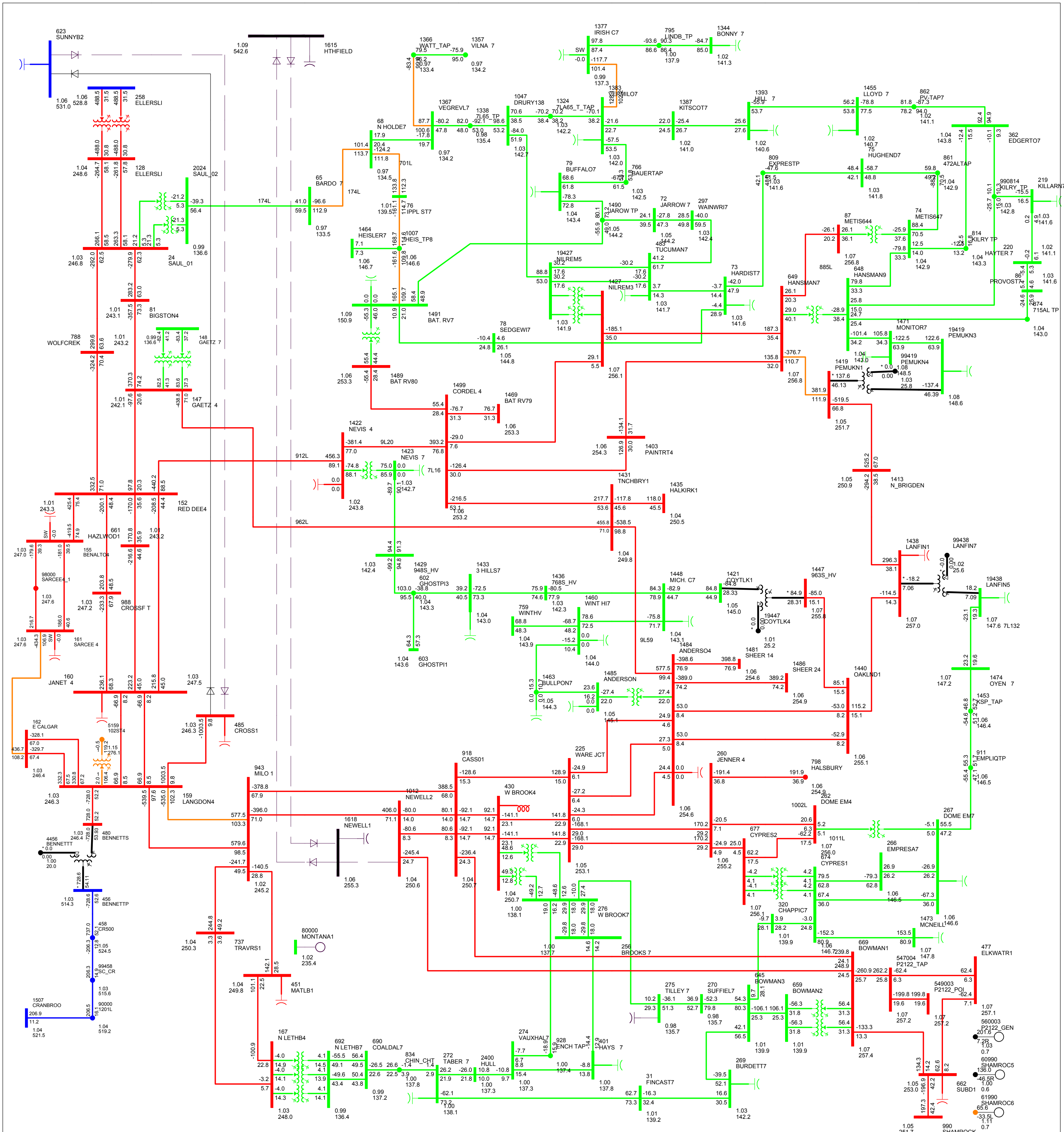
South East: 487.2 MW Central East: 346.2 MW South West: 1145.7 MW

FIG: C-74 :YR:2023S; CASE: H5; GEN SCN 2
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1
CAP: MAXIMIZE
WED, JUL 22 2020 12:55
Contingency: Base
Trip Action: None
Gensheds=Not Applied

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

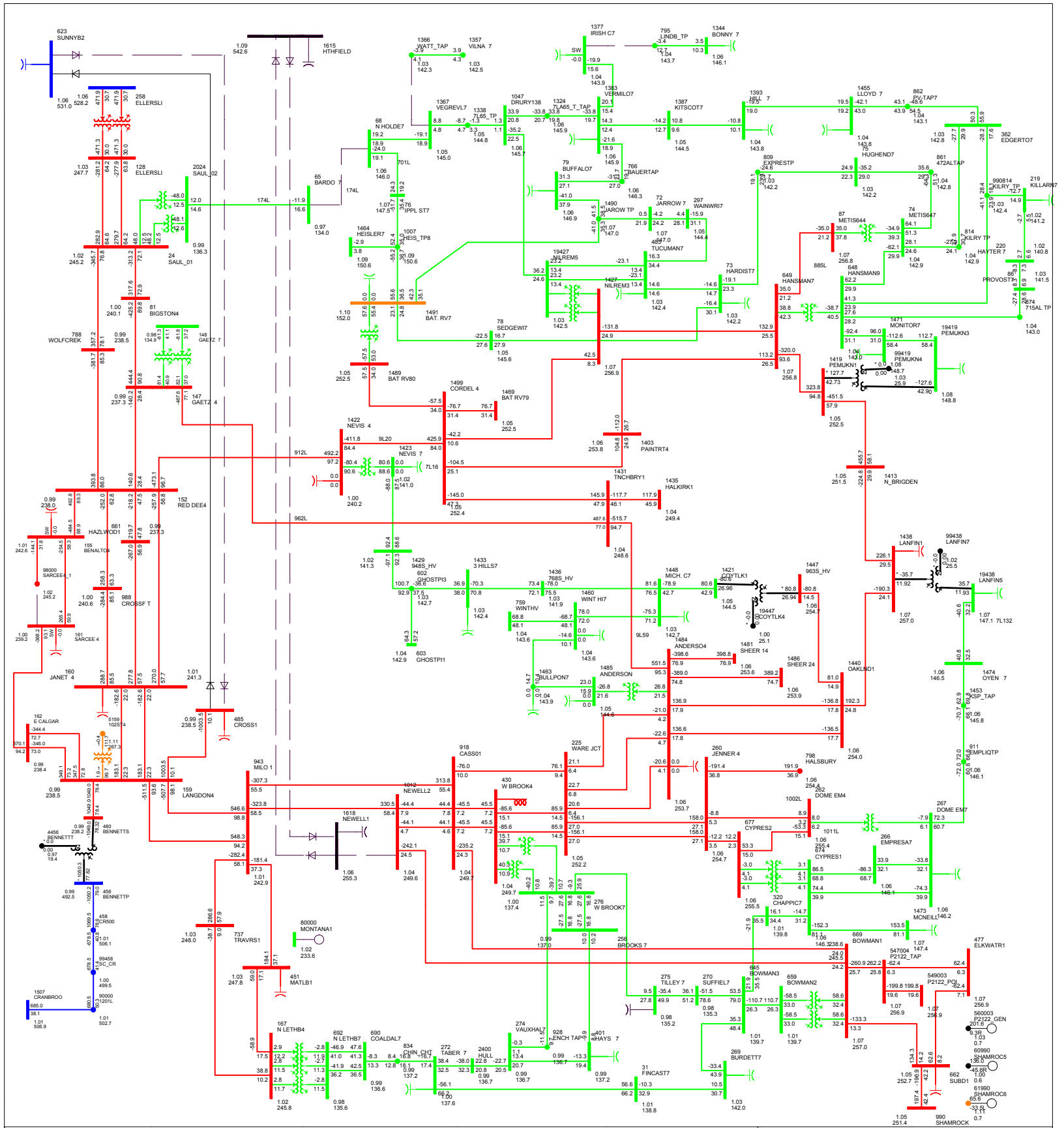
South East: 487.2 MW Central East: 346.2 MW South West: 1145.7 MW

FIG. C-75.01 ;YR:2023S; CASE: H5; GEN SCN 2
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1
CAP: MAXIMIZE
WED, JUL 22 2020 12:55
Contingency: EATL
Trip Action: None
Genshed=Not Applied

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

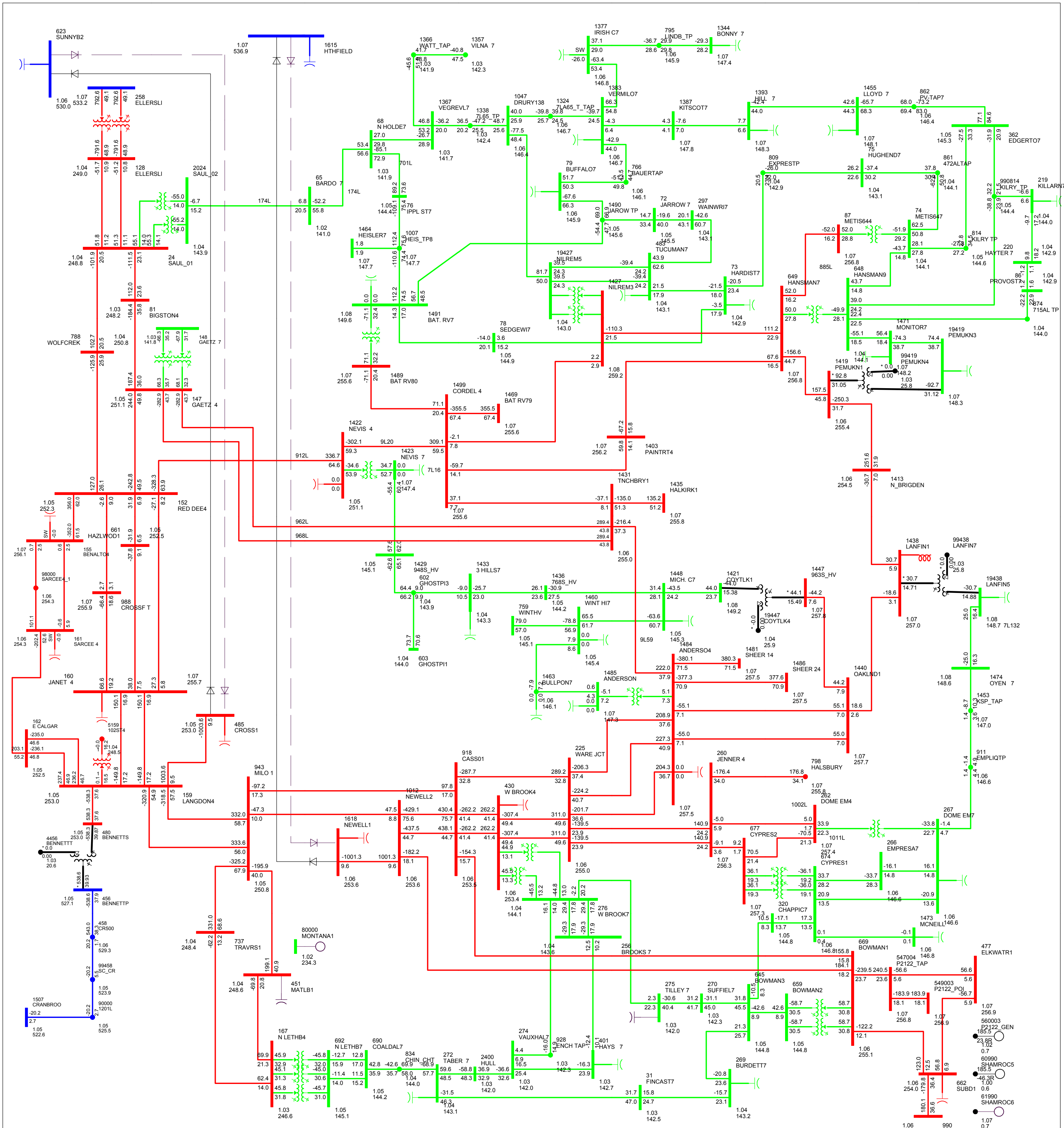
South East: 372.2 MW Central East: 0.1 MW South West: 1145.7 MW

FIG: C-75.02_FIG. C-75.01 :YR:2023S; CASE: HS; GEN SCN 2
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1
CAP: MAXIMIZE
WED, JUL 22 2020 12:55
Contingency: EATL
Trip Action: L274 BC 138kV Tie, 916L overload,Sarcee bus split, 174L overload trip, 7L92 overload trip, 7L53 overload trip
Genshed=CPRS:-19,OKLD:-95,HSM: -1,TCHB:-17,LNF:-165,DRURY:-85,EDGN:-76,Total:-461 MW

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading

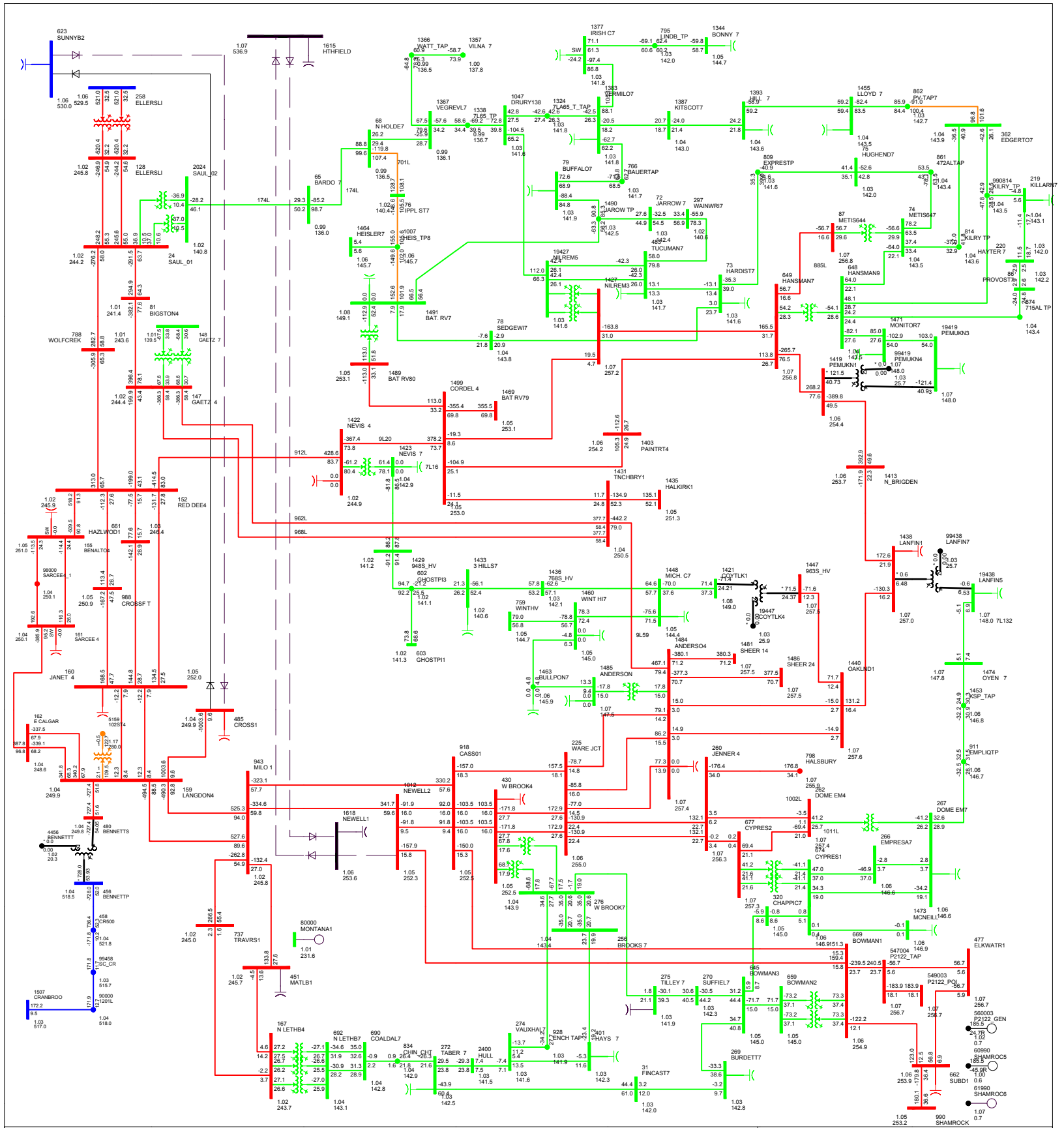


P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

South East: 531.5 MW Central East: 455.4 MW South West: 1111.6 MW

FIG. C-76 ;YR:2023SP; CASE: H2; GEN SCN 2
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1&2
CAP: MAXIMIZE
WED, JUL 22 2020 12:57
Contingency: Base
Trip Action: None
Gensched=Not Applied



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

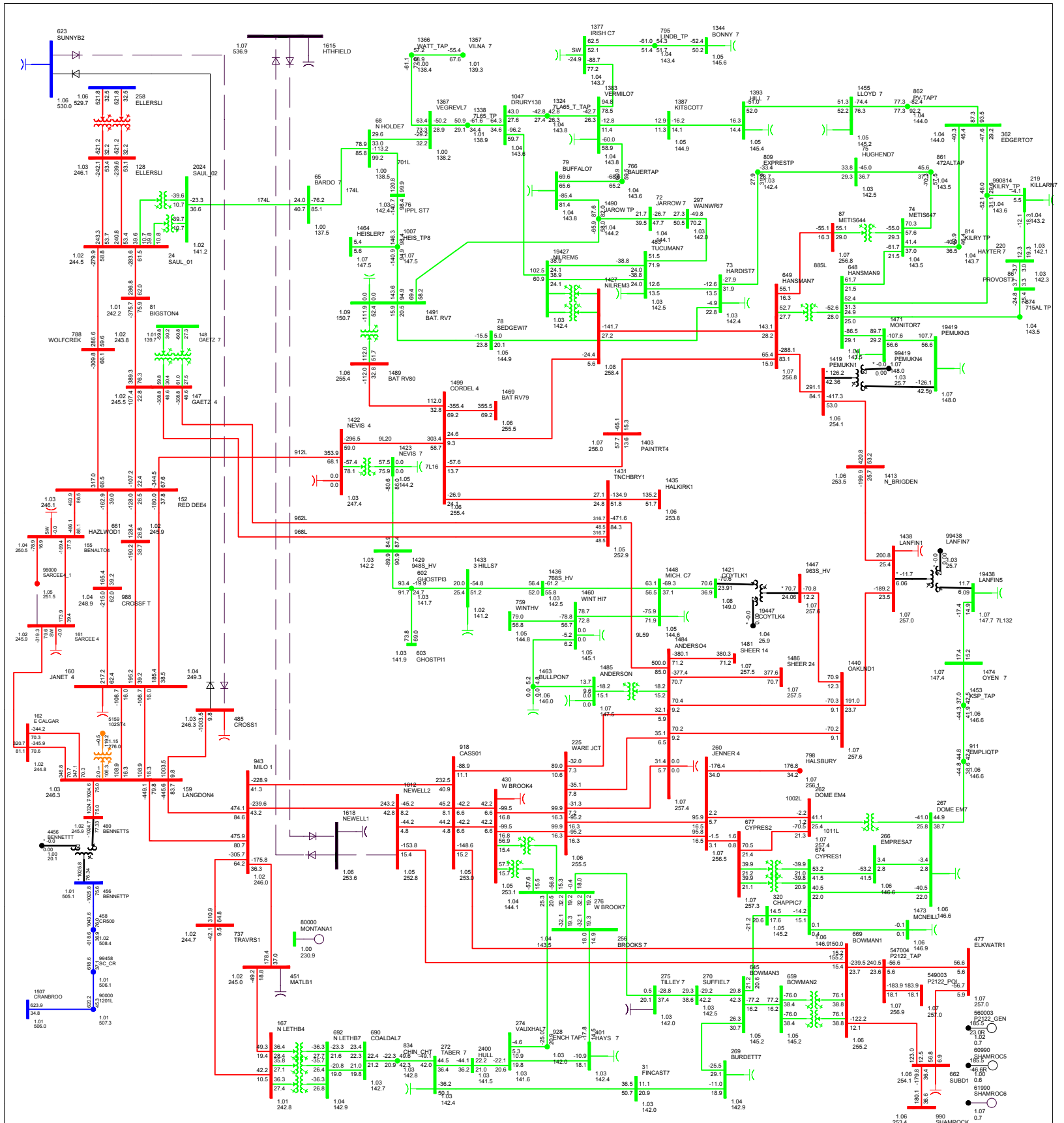
South East: 531.5 MW Central East: 455.4 MW South West: 1111.6 MW

FIG: C-77.01 ;YR:2023SP; CASE: H2: GEN SCN 2
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1&2
CAP: MAXIMIZE
WED, JUL 22 2020 12:57
Contingency: EATL
Trip Action: None
Gensheds=Not Applied

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

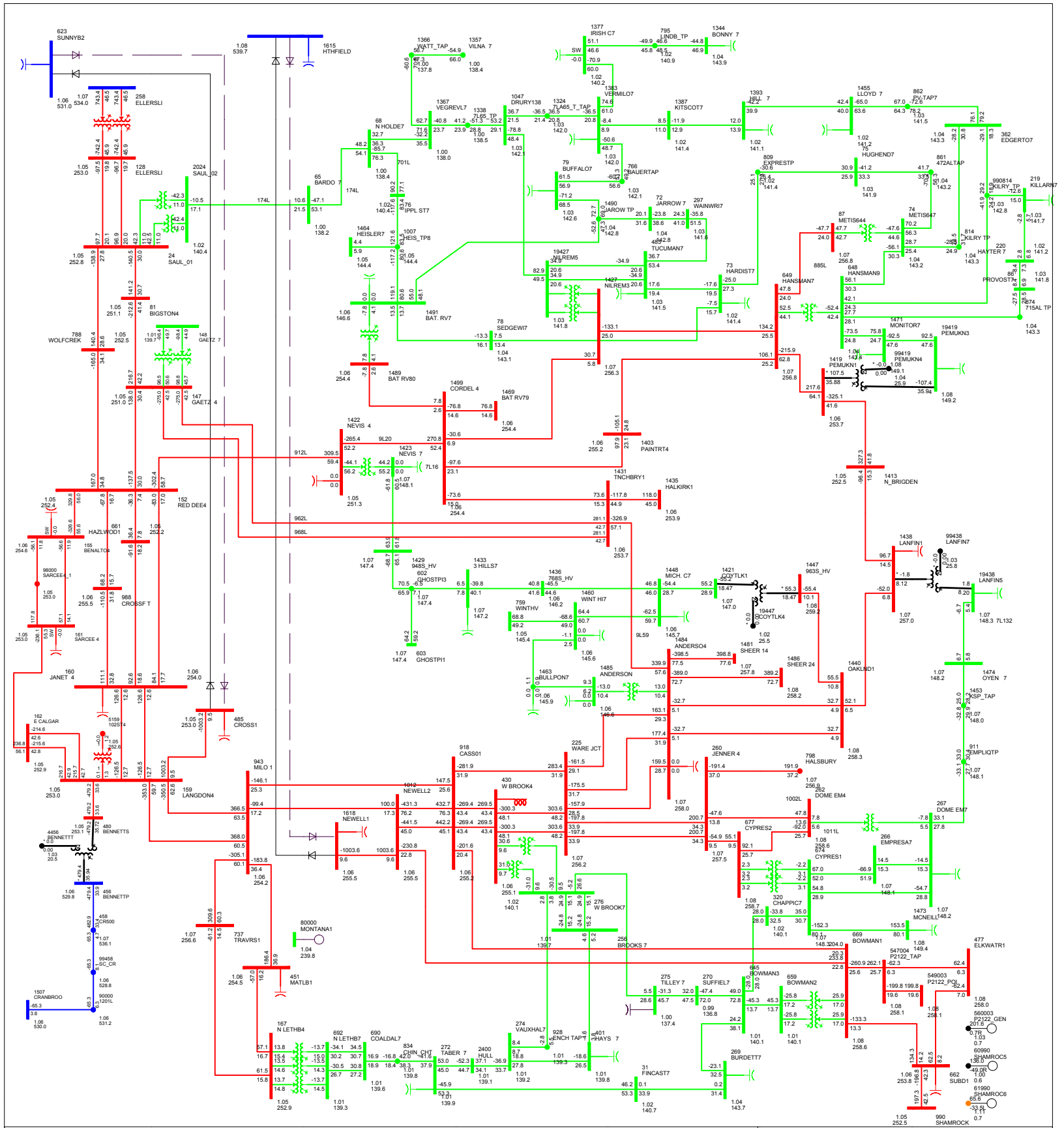
South East: 403.0 MW Central East: 118.8 MW South West: 1111.6 MW

FIG: C-77.02_FIG. C-77.01 :YR:2023SP; CASE: H2: GEN SCN 2
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1&2
CAP: MAXIMIZE
WED, JUL 22 2020 12:57
Contingency: EATL
Trip Action: L274 BC 138kV Tie, 916L overload,Sarcee bus split
Genshed=JNR:-76,OKLD:-52,HSM:-97,TCHB:-138,LNF:-43,NLR:-38,EDGN:-18,Total:-465 MW

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

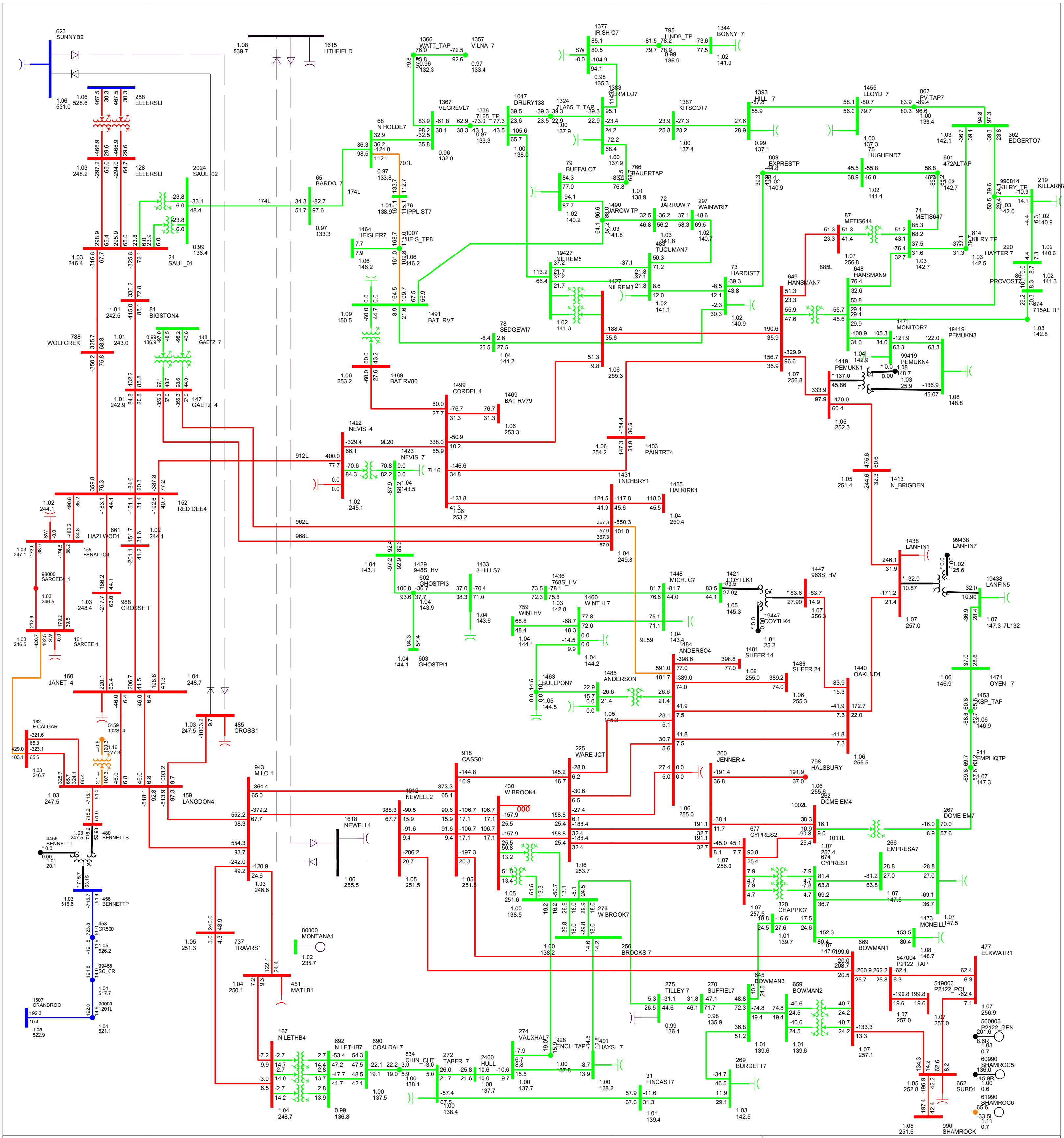
South East: 531.5 MW Central East: 455.4 MW South West: 1111.6 MW

FIG: C-7B :YR:2023S; CASE: H5; GEN SCN 2
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1&2
CAP: MAXIMIZE
WED, JUL 22 2020 12:56
Contingency: Base
Trip Action: None
Gensheld=Not Applied

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

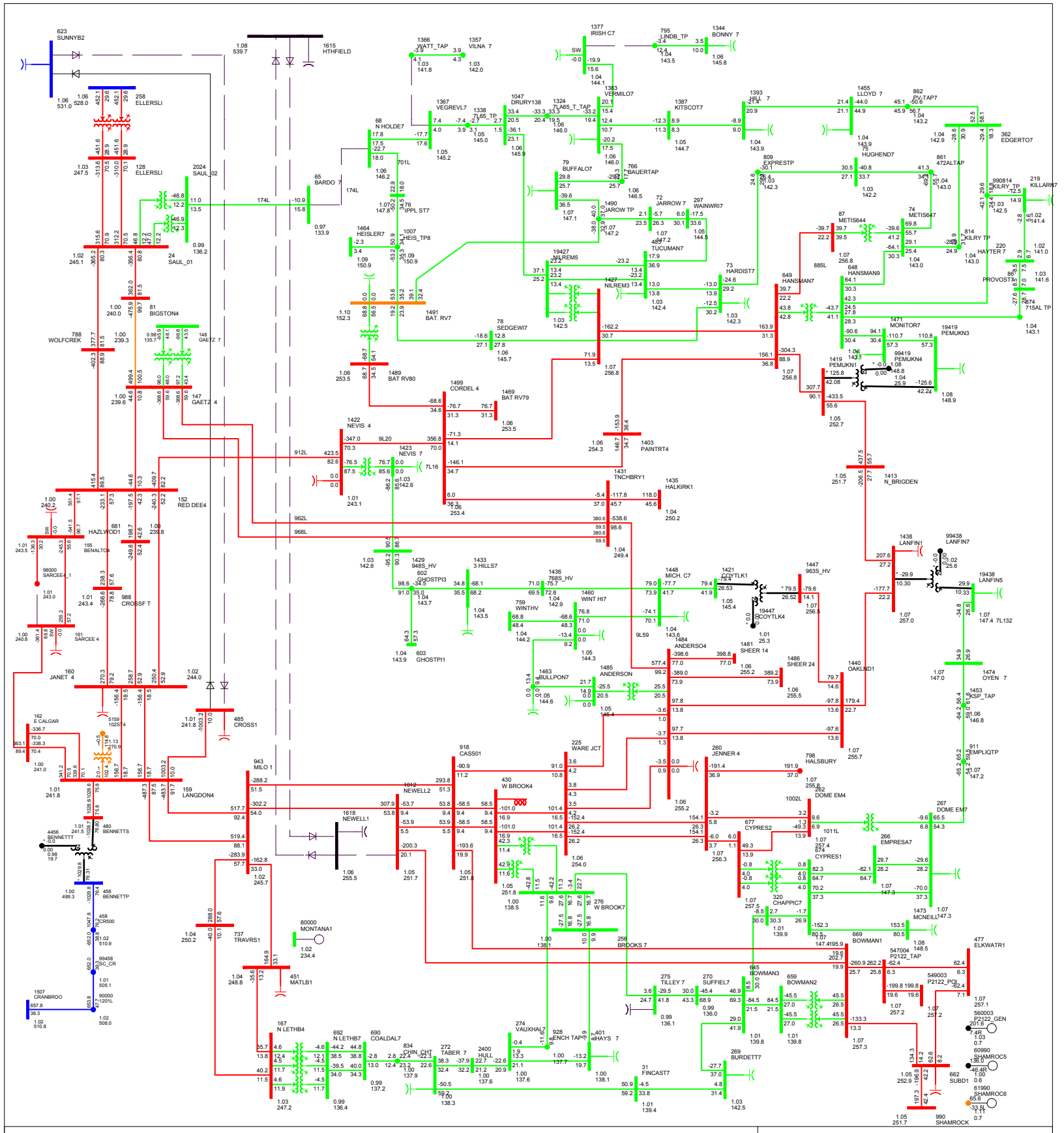
South East: 531.5 MW Central East: 455.4 MW South West: 1111.6 MW

FIG. C-79.01 ;YR:2023S; CASE: H5; GEN SCN 2
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1&2
CAP: MAXIMIZE
WED, JUL 22 2020 12:56
Contingency: EATL
Trip Action: None
Genshed=Not Applied

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading



P7001 Central East Transfer Out Transmission Development

New Generation in Study Area and SW Sub-region

South East: 321.5 MW Central East: 200.0 MW South West: 1111.6 MW

FIG: C-79.02 ;FIG. C-79.01 ;YR:2023S; CASE: HS: GEN SCN 2
PROJECT: CRPC (CR-CRR OPT), CETO STAGE1&2
CAP: MAXIMIZE
WED, JUL 22 2020 12:56
Contingency: EATL
Trip Action: L274 BC 138kV Tie, 916L overload,Sarcee bus split, 174L overload trip, 7L92 overload trip, 7L53 overload trip
Genshed=CPRS:-99,OKLD:-110,HSM:-25,TCHB:-92,LNF:-43,NLR:-57,DRURY:-11,EDGN:-24,Total:-465 MW

Branch Loading: >=100.0%

kV: <=25.000 <=69.000 <=138.000 <=240.000 <=500.000

Bus - Voltage (kV/pu)
Branch - MW/%Loading
Equipment - MW/%Loading