



Single Line Diagrams (SLDs)

AESO 2022 Long-term Transmission Plan

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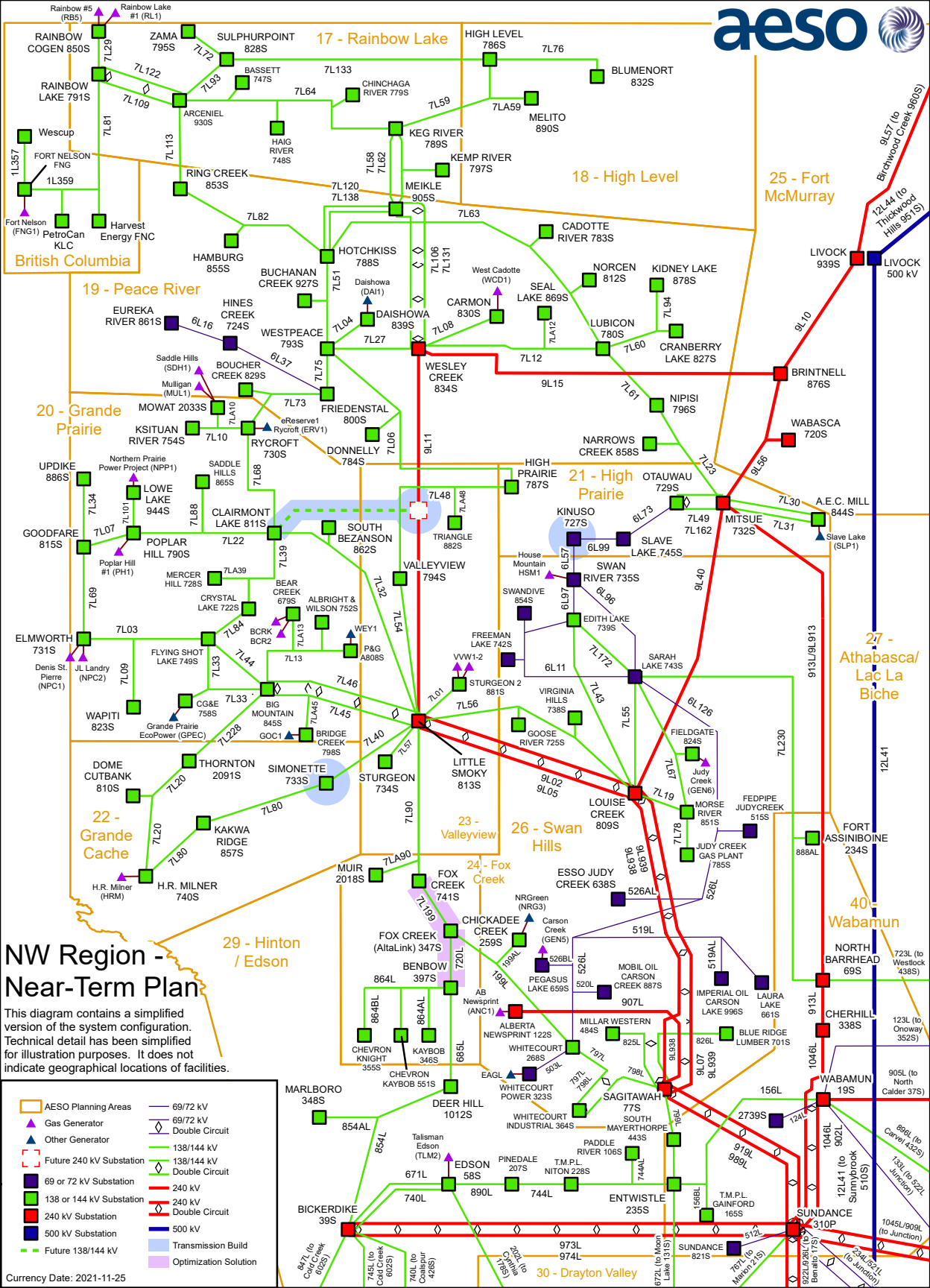
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AESO 2022 Long-term Transmission Plan

Single Line Diagrams (SLDs)

NEAR TERM REGIONAL TRANSMISSION PLANS

- *Northwest Planning Region*
- *Northeast Planning Region*
- *Edmonton Planning Region*
- *Central Planning Region*
- *South Planning Region*
- *Calgary Planning Region*



Rainbow #5 (RBS) Rainbow Lake #1 (RL1)

19 - Peace River

20 - Grande Prairie

22 - Grande Cache

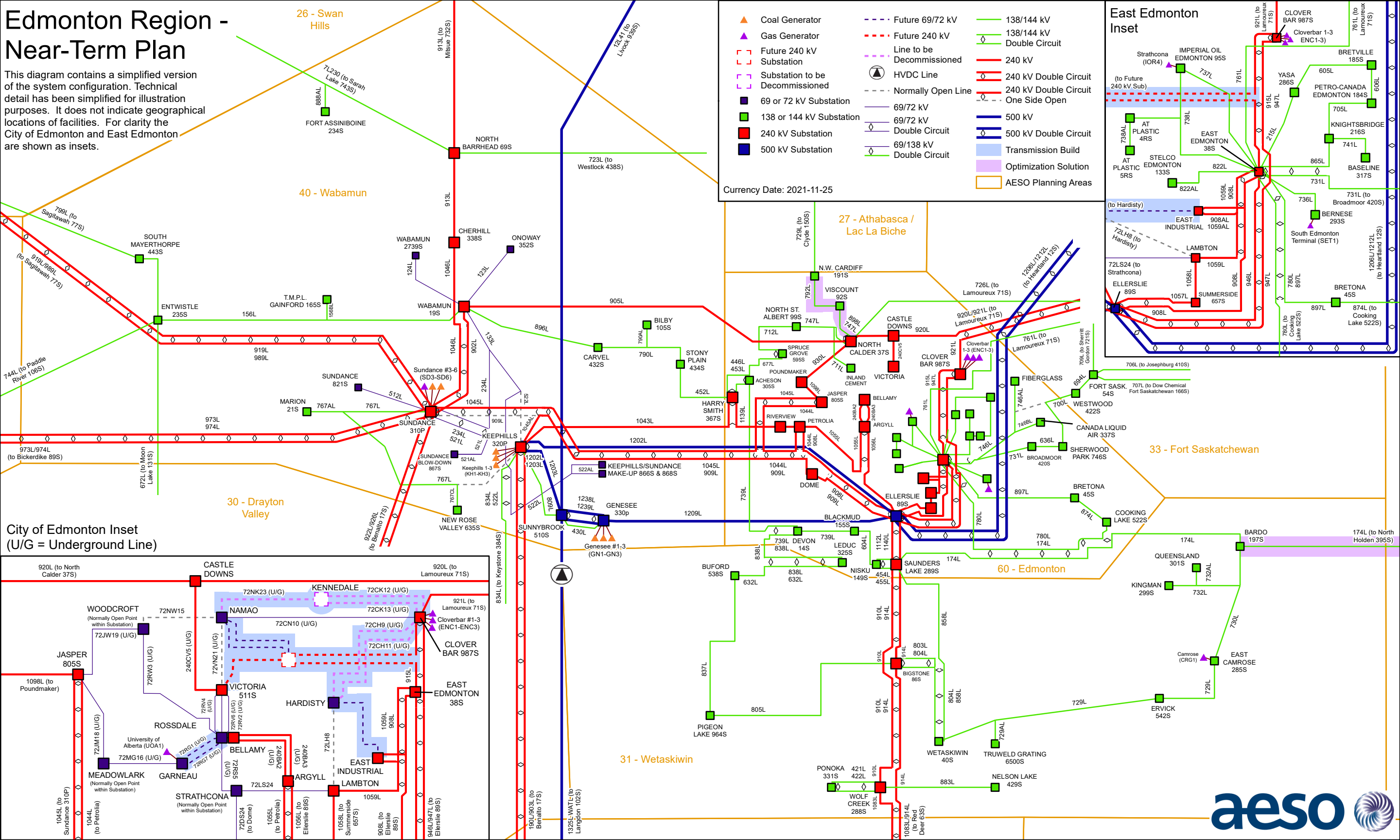
NW Region - Near-Term Plan

This diagram contains a simplified version of the system configuration. Technical detail has been simplified for illustration purposes. It does not indicate geographical locations of facilities.

	AESO Planning Areas		69/72 kV
	Gas Generator		69/72 kV Double Circuit
	Other Generator		138/144 kV
	Future 240 kV Substation		138/144 kV Double Circuit
	69 or 72 kV Substation		240 kV
	138 or 144 kV Substation		240 kV Double Circuit
	240 kV Substation		500 kV
	500 kV Substation		Transmission Build
	Future 138/144 kV		Optimization Solution

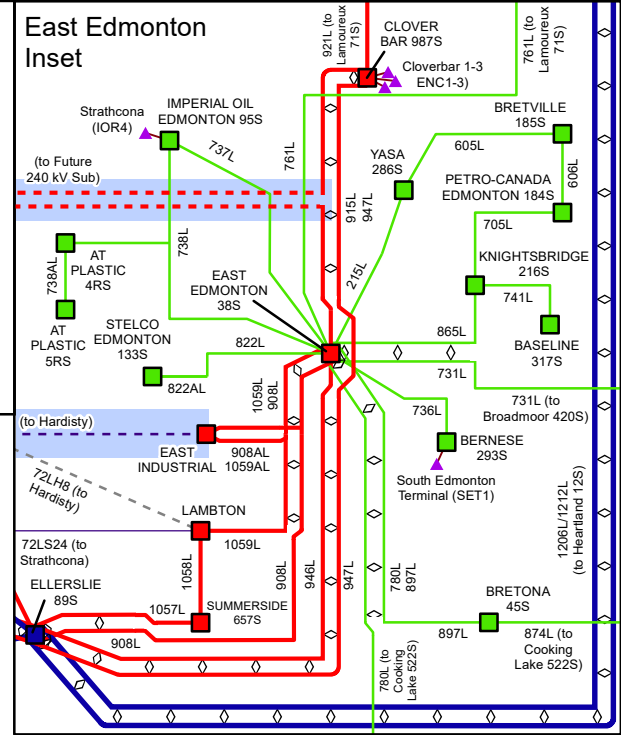
Edmonton Region - Near-Term Plan

This diagram contains a simplified version of the system configuration. Technical detail has been simplified for illustration purposes. It does not indicate geographical locations of facilities. For clarity the City of Edmonton and East Edmonton are shown as insets.

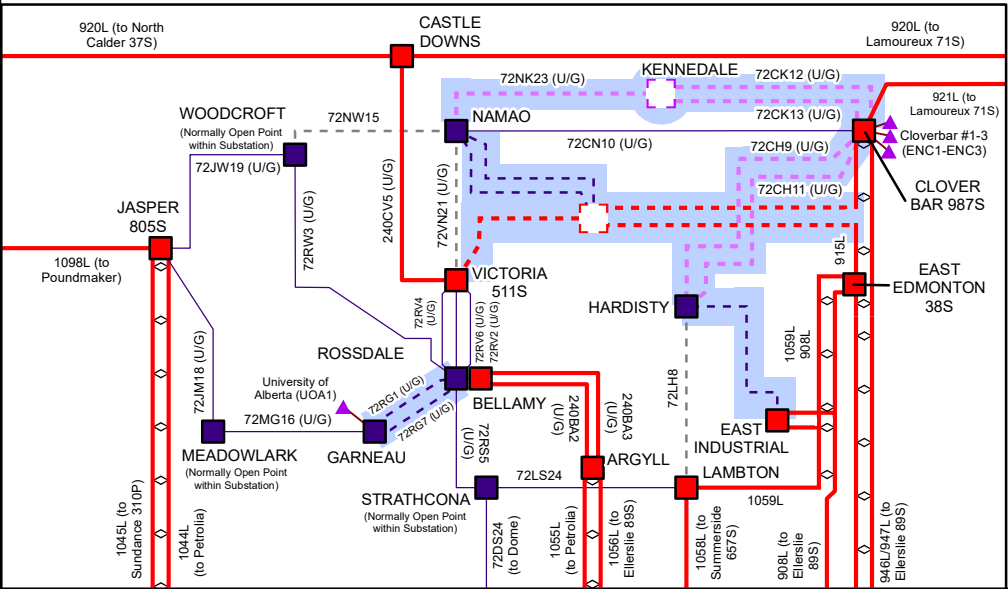


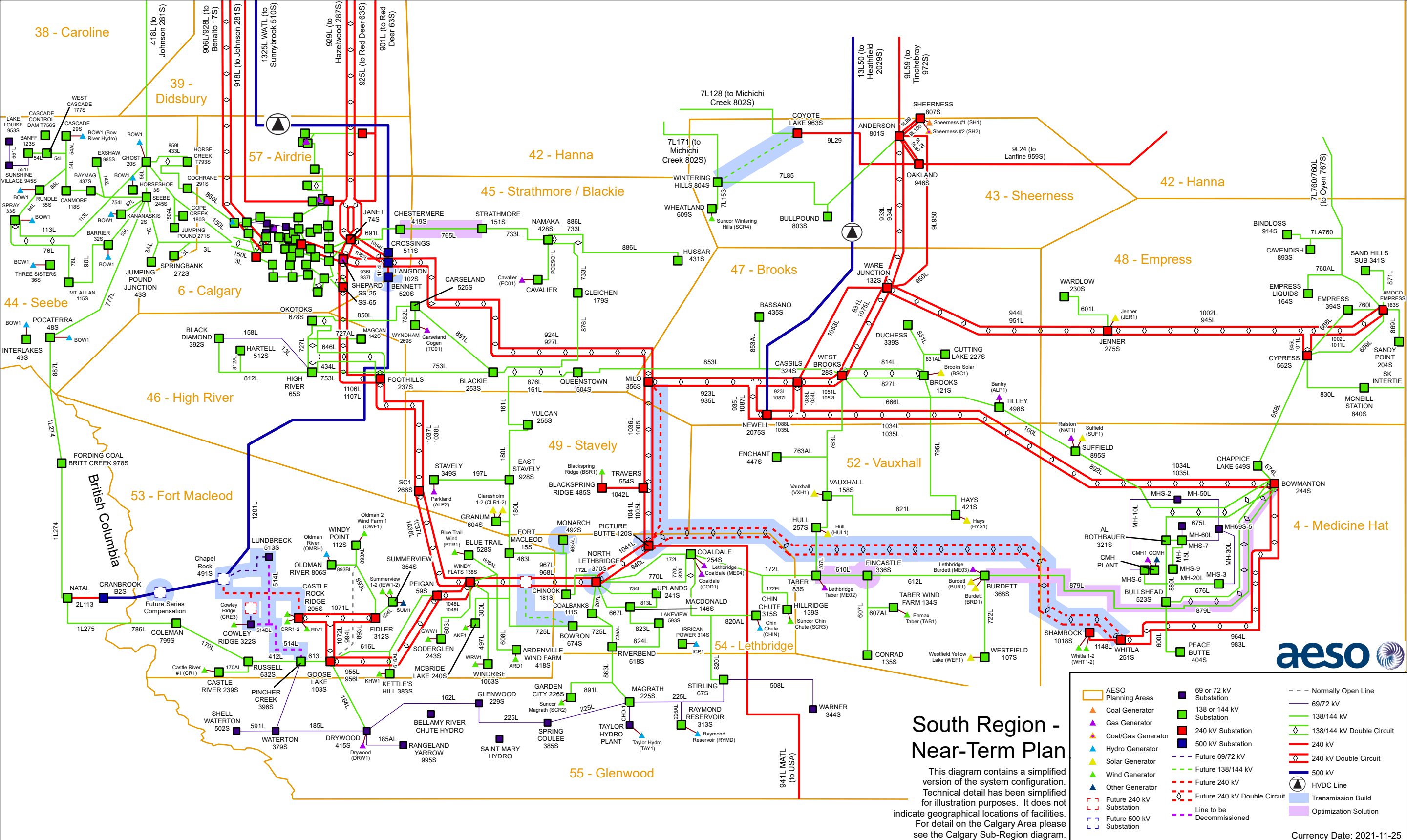
▲ Coal Generator	--- Future 69/72 kV	— 138/144 kV
▲ Gas Generator	- - - Future 240 kV	— 138/144 kV
□ Future 240 kV Substation	--- Line to be Decommissioned	◇ Double Circuit
□ Substation to be Decommissioned	⊙ HVDC Line	— 240 kV
■ 69 or 72 kV Substation	- - - Normally Open Line	— 240 kV Double Circuit
■ 138 or 144 kV Substation	— 69/72 kV	— 240 kV Double Circuit One Side Open
■ 240 kV Substation	— 69/72 kV Double Circuit	— 500 kV
■ 500 kV Substation	— 69/138 kV Double Circuit	— 500 kV Double Circuit
		■ Transmission Build
		■ Optimization Solution
		■ AESO Planning Areas

Currency Date: 2021-11-25



City of Edmonton Inset (U/G = Underground Line)



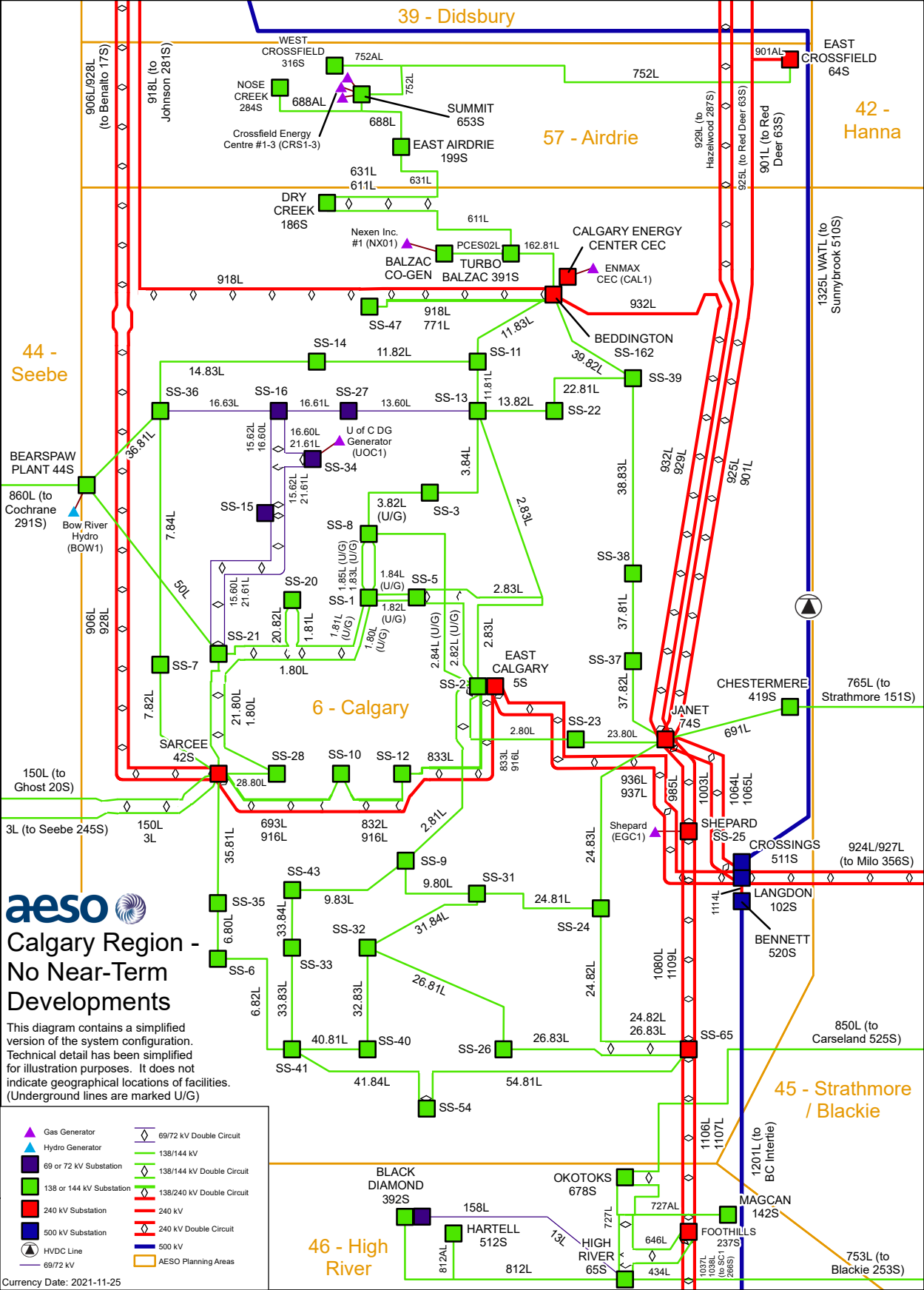


South Region - Near-Term Plan

This diagram contains a simplified version of the system configuration. Technical detail has been simplified for illustration purposes. It does not indicate geographical locations of facilities. For detail on the Calgary Area please see the Calgary Sub-Region diagram.

AESO Planning Areas	69 or 72 kV Substation	Normally Open Line
Coal Generator	138 or 144 kV Substation	69/72 kV
Gas Generator	240 kV Substation	138/144 kV
Coal/Gas Generator	500 kV Substation	138/144 kV Double Circuit
Hydro Generator	Future 69/72 kV	240 kV Double Circuit
Solar Generator	Future 138/144 kV	500 kV
Wind Generator	Future 240 kV	HVDC Line
Other Generator	Future 240 kV Double Circuit	Transmission Build
Future 240 kV Substation	Future 240 kV Double Circuit	Optimization Solution
Future 500 kV Substation	Decommisioned	





44 - Seebe

39 - Didsbury

42 - Hanna

57 - Airdrie

6 - Calgary

45 - Strathmore / Blackie

46 - High River

aeso
Calgary Region - No Near-Term Developments

This diagram contains a simplified version of the system configuration. Technical detail has been simplified for illustration purposes. It does not indicate geographical locations of facilities. (Underground lines are marked U/G)

- ▲ Gas Generator
- ▲ Hydro Generator
- 69 or 72 kV Substation
- 138 or 144 kV Substation
- 240 kV Substation
- 500 kV Substation
- ⬆ HVDC Line
- 69/72 kV
- 138/144 kV
- 240 kV
- 500 kV
- AESO Planning Areas
- ◊ 69/72 kV Double Circuit
- ◊ 138/144 kV Double Circuit
- ◊ 240 kV Double Circuit