Alberta Electric System Operator
3000, 240 4 Avenue SW
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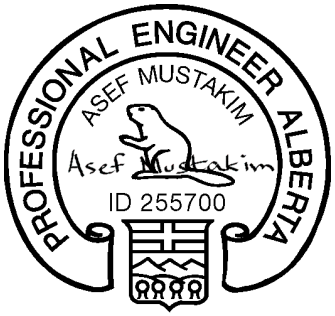
AESO Transmission Capability Map

2025 Assessment



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Role	Name	Date	Signature
Prepared by	Asef Mustakim, P.Eng.	26th Sep., 2025	Asef Mustakim
	Jose Carmo, E.I.T.	26th Sep., 2025	
Reviewed by	Ming Dong, P.Eng.	26th Sep.,2025	
Approved by	Jasmin Judge, P.Eng.	26th, Sept, 2025	

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1. Introduction

This 2025 assessment calculated the transmission capability values published in the Alberta Electric System Operator (AESO) Transmission Capability Map.

1.1 Study Objectives

The objectives of this assessment are to:

1. Estimate the additional generation capability that could be connected at different locations on the existing transmission system.
2. Indicate the level of complexity expected in the AESO Connection Process.
3. Assist market participants in making informed business decisions for generation capacity and location siting in a way that facilitates transmission system optimization.

1.2 Application of the Results

The assessment is based on the existing transmission system with historical data and does not consider future load, generation, or transmission system developments and operations.

The capability values are based on category A thermal congestion and could be further limited by contingencies, other constraints or other connection projects. Therefore, **the capability values are indicative and not guaranteed in the AESO Connection Process**, which is the official process to facilitate market participants' requests for new or altered system access services on Alberta's transmission system.

Summarizing the study objectives, the capability estimation is an indication of the level of complexity to assist market participants. The level of complexity is indicated by comparing the project size to the estimated capability:

1. Locations with little capability or a capability smaller than the project size will likely result in a complex connection request.
2. Locations with capabilities higher than the project size are the favorable locations to consider.

Given the study objectives and how the results should be applied, the results should not be used as an input into other engineering work products.

1.3 Capability Map Disclaimer

The AESO makes no representations, warranties or guarantees, whether express or implied, as to the accuracy, reliability, completeness, currency or non-infringement of the map and associated information, or its fitness for any particular purpose. While the AESO has made every attempt to ensure that the information is timely and accurate, it is not responsible for any errors or omissions in the map and associated information. The AESO is not responsible for any losses or costs incurred by you or any other person as a result of the use, conversion, publication, transmission, installation

or improvements to the map and associated information, even if such losses or costs are foreseeable.

2. Study Scope

The scope of this assessment was selected based on the study objectives.

2.1 Study Period

This assessment was a historical assessment that studied the 2024 calendar year. It provides an indication of the transmission capability based on the existing system over the previous year.

2.2 Connection Type

This assessment studied generation capability.

2.3 Study Area

The assessment covered the South and Central East planning regions. This includes the planning areas of Medicine Hat (4), Lloydminster (13), Wainwright (32), Alliance/Battle River (36), Provost (37), Hanna (42), Sheerness (43), Strathmore/Blackie (45), High River (46), Brooks (47), Empress (48), Stavely (49), Vauxhall (52), Fort Macleod (53), Lethbridge (54), Glenwood (55) and Vegreville (56). The study area was selected based on connection project interest–these planning areas have a significant portion of the active connection projects.

2.4 Study Location

This assessment studied the transmission capability for each substation and transmission line in the study area. For substations, it was studied at each transmission bus with a voltage equal to or greater than 69 kilovolts (kV). For transmission lines, it was studied at each terminal of the transmission line. The transmission line results are the same for either a T-tap or in-and-out configuration. The capability was calculated independently at each location and does not consider potential generating unit connections at other locations.

3. Study Assumptions and Criteria

This section discusses the study assumptions, system model and reliability standards applied in the assessment. This assessment uses information based on the transmission system's historical performance, which will change over time. The AESO addresses this evolving system by regularly updating the assessment.

3.1 Capability Map Assumptions

The capability map was calculated using the following assumptions and historical data.

3.1.1 Study Year

The transmission capability was calculated by studying each hour in the 2024 calendar year. The study used hourly historical data.

3.1.2 Transmission System Model

The interconnected electric system was modelled as per the installed transmission system on December 31, 2024. The model excluded connection and system projects that energized after December 31, 2024.

3.1.3 Transmission Facility Ratings

The transmission facility ratings were provided by the respective Transmission Facility Owners (TFOs). The facility ratings as per December 31, 2024, were used in the assessment.

3.1.4 Demand

The demand was modelled using the hourly historical metered demand for each measurement point. The hourly historical demand was assigned to its corresponding buses in the transmission system model.

3.1.5 Merit Order

The generating units were dispatched using hourly historical merit order data for each pool asset. The merit order determined the hourly pool asset dispatch, and the hourly dispatch was assigned to its corresponding generating units in the transmission system model. For some pool assets, the historical merit order data was modified to account for non-dispatchable generating units and generating units connected behind a measurement point.

3.1.6 Interties

The Alberta Interconnected Electric System (AIES) is connected to British Columbia via Western Electricity Coordinating Council (WECC) Path 1; to Saskatchewan via WECC Path 2; and to Montana via WECC Path 83. The interties were dispatched using the hourly historical schedule. In addition, the dispatches were constrained to each intertie's hourly historical available transfer capability.

3.1.7 High-Voltage Direct Current (HVDC) Power Order

The HVDC power orders on Western Alberta Transmission Line (WATL) and Eastern Alberta Transmission Line (EATL) were selected to minimize the hourly pool price. This assumption minimizes the transmission system losses while respecting transmission constraints.

3.1.8 Project Inclusion

Since the transmission system was modelled as per December 31, 2024, the transmission facilities for projects that energized during 2024 were modelled in every hour. However, since the demand

and merit order use historical data, projects that energized during 2024 were effectively not included until they energized and had metered energy. Thus, their impact on a substation's capability may not be completely captured.

Connection and system projects energizing after December 31 were not included in the studies.

3.2 Criteria

The Transmission Planning (TPL) Standards, which are part of the Alberta Reliability Standards (ARS), ensure the transmission system is planned to meet specific performance requirements. Although this assessment was not completed to fulfil the requirements of the TPL Standards, they were used to inform the performance criteria.

The assessment utilized a direct current (DC) power flow solver and therefore can assess thermal but not voltage and stability performance criteria. Studying only the thermal performance criteria was considered acceptable given the assessment's objective – to indicate the level of complexity expected in the AESO Connection Process and to assist market participants in making informed business decisions for generation capacity and location siting in a way that facilitates transmission system optimization.

Category A, or N-0, represents a normal system condition with all elements in service. For Category A, all equipment must be within its applicable thermal rating, electric supply to load cannot be interrupted and generating units cannot be removed from service. The voltage criteria and stability criteria were not assessed.

Category B, C and D were not considered in this assessment.

4. Methodology

This section details the methodology used in this assessment.

4.1 DC Power Flow Solver

The assessment uses a DC power flow solver, which simplifies the power flow equations to enable large studies across many hours. The main assumptions of the DC power flow solver used in this assessment are: (i) bus voltages are 1.0 per unit (p.u.); and (ii) the power flow equations are linear.

4.2 Process Overview

The methodology for calculating transmission capability has three main steps:

1. Create power flow cases: The first step is to create an historical hourly representation of the power system.
2. Calculate capabilities: The second step is to calculate the hourly capability at each location using the hourly cases created in step one.
3. Summarize capabilities: The final step is to convert the hourly, location specific capabilities calculated in step two into the location specific capability.

Each of these steps are explained in detail in following sections.

4.2.1 Create Power Flow Cases

The first step was to create an historical hourly representation of the power system–a case was created for each hour in the study year. This step combined the historical data in Section 3, a model of the power system and a cost minimization optimization problem.

The optimization problem:

1. Models the historical demand to its corresponding buses in the transmission system model.
2. Dispatches the most economical generating units using merit order data to minimize cost.
3. Optimizes the HVDC power order to minimize cost. Adjusting the HVDC power order to minimize losses reduces the dispatch on the marginal generating unit, which in turn minimizes the cost.
4. Solves the DC power flow equations (equality constraints) while respecting the continuous facility ratings (inequality constraints).
5. Allows the power flow results to influence the economic dispatch. The optimization redispatches the generating units or HVDC power order away from the minimum cost point to respect the continuous facility ratings in the most economical manner. This is the equivalent to constrained down generation or transmission must run.

4.2.2 Calculate Capabilities

The second step was to calculate the hourly capability at each location using the hourly cases created in step one. A generation maximization optimization problem was solved for each location in each hour.

The optimization problem:

1. Maximizes the incremental generation at a specific location.
2. Balances supply and demand by adding incremental load across the AIES.
3. Solves the DC power flow equations and ensures that the facilities rated 69 kV and above, which are effective to the incremental generation connection point and are outside of the incremental generation connection point, do not exceed their continuous facility rating.
4. Allows the power flow results to constrain the incremental generation.

4.2.3 Summarize Capability

The final step is to convert the hourly, location specific capabilities calculated in step two into the location specific capability.

The capability varies hour-to-hour depending on the surrounding system. The hourly capability results can be sorted to create a duration curve. This curve illustrates the range and capability available as a percentage of time. A project applying for a value below the minimum capability observed on the curve would not introduce Category A (N-0) congestion into the historical system.

However, a project applying for a value on the duration curve would expect congestion for the corresponding percentage of time.

The 0.5 percentile was selected as the capability. In other words, connecting a generating unit at this value would result in N-0 congestion for 0.5 per cent of the historical hours. This provides an indication of the capability while planning for a congestion-free system.

5. Transmission Capability Results

Transmission capability was calculated for each transmission bus and each transmission line in the study area. The substation capability results are provided in Attachment A, the transmission line capability results are provided in Attachment B and the generation assets that energized in 2024 are provided in Attachment C. Since the assessment did not consider Category B criteria, the transmission line capability results apply for both T-tap and In-and-Out configurations.

Overall, since more projects have energized after the publication of the 2024 Transmission Capability Assessment results, the capabilities in the South and Central East regions have decreased. The change in thermal generation fleet in the system had a reasonable impact on the generation dispatch in the Central-East and South regions, leading to lower capabilities in many substations in these regions. Furthermore, the capabilities of substations in the Cassils-Bowmanton-Whitla (CBW) path have decreased due to updated constraints imposed to better reflect most severe single contingency (MSSC) concerns in the path.

6. Conclusions

The assessment estimated the additional generation capability that could be connected at different locations on the existing transmission system for substations and transmission lines in the South and Central East planning regions. The transmission capability can be used to indicate the level of complexity expected in the AESO Connection Process, and to assist market participants in making informed business decisions regarding generation capacity and location siting to facilitate transmission system optimization.

Attachment A: Substation Capability

Name	Facility Code	TFO[1]	Planning Area	Bus Number	Voltage (kV)	Capability (MW)[2]
Al Rothbauer	321S	AltaLink	04-Medicine Hat	976	138	0
Amber	611S	AltaLink	04-Medicine Hat	549041	240	0
Amoco Empress	163S	AltaLink	48-Empress	262	240	5
Amoco Empress	163S	AltaLink	48-Empress	267	138	4
Anderson	801S	ATCO	43-Sheerness	1484	240	248
Anderson	801S	ATCO	43-Sheerness	1485	138	35
Ardenville Wind Farm	418S	AltaLink	53-Fort Macleod	739	138	38
Badlands	981S	ATCO	43-Sheerness	1632	138	20
Bassano	435S	AltaLink	47-Brooks	399	138	0
Battle River	757S	ATCO	36-Alliance/Battle River	1489	240	234
Battle River	757S	ATCO	36-Alliance/Battle River	1491	138	241
Battle River	757S	ATCO	36-Alliance/Battle River	1469	240	110
Battle River	757S	ATCO	36-Alliance/Battle River	1492	69	99
Battle Sands	594S	AltaLink	32-Wainwright	609	138	97
Bauer	918S	ATCO	13-Lloydminster	1113	138	109
Big Knife Creek	843S	ATCO	36-Alliance/Battle River	1401	69	57
Big Valley	778S	ATCO	42-Hanna	1442	69	9

[1] Some substations with T-tap lines listed in this table may not be owned by the TFOs and hence the capability in those substations may not be accessible to all market participants. Also, some substations owned by ATCO may operate at 144 kV instead of 138 kV and 72 kV instead of 69 kV.

[2] Equipment limitations within or downstream of the connection-point substation were not considered in the capability calculations. Hence, the actual capabilities may be lower than the values shown in the table.

Name	Facility Code	TFO[1]	Planning Area	Bus Number	Voltage (kV)	Capability (MW)[2]
Bigfoot	756S	ATCO	36-Alliance/Battle River	1498	69	48
Bindloss	914S	ATCO	48-Empress	1454	138	5
Black Diamond	392S	AltaLink	46-High River	238	138	0
Black Diamond	392S	AltaLink	46-High River	241	69	0
Blackie	253S	AltaLink	45-Strathmore/ Blackie	253	138	0
Blackspring Ridge	485S	AltaLink	49-Stavely	736	240	166
Blue Trail	528S	AltaLink	53-Fort Macleod	328	138	38
Bowmanton	244S	AltaLink	04-Medicine Hat	669	240	0
Bowmanton	244S	AltaLink	04-Medicine Hat	659	138	0
Bowmanton	244S	AltaLink	04-Medicine Hat	645	138	0
Bowron	674S	City of Lethbridge	54-Lethbridge	698	138	20
Briker	880S	ATCO	13-Lloydminster	1314	138	103
Brooks	121S	AltaLink	47-Brooks	256	138	0
Buffalo Bird	601S	ATCO	42-Hanna	996	138	94
Buffalo Creek	526S	AltaLink	32-Wainwright	79	138	119
Bullpound	803S	ATCO	43-Sheerness	1463	138	25
Bullseye	1004S	ATCO	42-Hanna	549051	138	8
Bullshead	523S	AltaLink	04-Medicine Hat	271	138	0
Burdett	368S	AltaLink	52-Vauxhall	269	138	2
Carseland	525S	AltaLink	45-Strathmore/ Blackie	252	138	0
Cassils	324S	AltaLink	47-Brooks	918	240	340
Castle River	239S	AltaLink	53-Fort Macleod	234	138	69
Castle Rock Ridge	205S	AltaLink	53-Fort Macleod	221	240	226
Castor	759S	ATCO	42-Hanna	1404	69	57

Name	Facility Code	TFO[1]	Planning Area	Bus Number	Voltage (kV)	Capability (MW)[2]
Cavalier		AltaLink	45-Strathmore/ Blackie	247	138	0
Cavendish	893S	ATCO	48-Empress	1456	138	5
Chappice Lake	649S	AltaLink	04-Medicine Hat	320	138	0
Chestermere	419S	AltaLink	6-Calgary	949	138	25
Chin Chute	315S	AltaLink	54-Lethbridge	406	138	3
Chinook	181S	City of Lethbridge	54-Lethbridge	367	138	20
Clipper	656S	AltaLink	32-Wainwright	484	138	89
Coalbanks	111S	City of Lethbridge	54-Lethbridge	679	138	20
Coaldale	254S	AltaLink	54-Lethbridge	690	138	9
Coleman	799S	AltaLink	53-Fort Macleod	232	138	131
Conrad	135S	AltaLink	52-Vauxhall	291	138	2
Cordel	755S	ATCO	36-Alliance/Battle River	1499	240	234
Coronation	773S	ATCO	42-Hanna	1465	69	20
Cowley Ridge	322S	AltaLink	53-Fort Macleod	264	69	10
Coyote Lake	963S	ATCO	43-Sheerness	1447	240	197
Coyote Lake	963S	ATCO	43-Sheerness	1421	138	140
Cutting Lake	227S	AltaLink	47-Brooks	445	138	0
Cypress	562S	AltaLink	48-Empress	677	240	5
Cypress	562S	AltaLink	48-Empress	674	138	4
Drywood	415S	AltaLink	55-Glenwood	233	138	81
Drywood	415S	AltaLink	55-Glenwood	226	69	34
Duchess	339S	AltaLink	47-Brooks	250	138	0
East Stavely	928S	AltaLink	49-Stavely	279	138	1
Edgerton	899S	AltaLink	37-Provost	362	138	152
Elkwater	264S	AltaLink	04-Medicine Hat	477	240	0
Empress	394S	AltaLink	48-Empress	266	138	4

Name	Facility Code	TFO[1]	Planning Area	Bus Number	Voltage (kV)	Capability (MW)[2]
Empress Liquids	164S	AltaLink	48-Empress	263	138	4
Enchant	447S	AltaLink	52-Vauxhall	286	138	0
Excel	910S	ATCO	42-Hanna	1459	138	92
Fidler	312S	AltaLink	53-Fort Macleod	751	240	226
Fidler	312S	AltaLink	53-Fort Macleod	752	138	225
Fincastle	336S	AltaLink	52-Vauxhall	31	138	2
Foothills	237S	AltaLink	46-High River	617	240	0
Foothills	237S	AltaLink	46-High River	640	138	0
Fort Macleod	15S	AltaLink	53-Fort Macleod	237	138	23
Forty Mile	516S	AltaLink	04-Medicine Hat	608	240	0
Garden City	226S	AltaLink	55-Glenwood	251	138	18
Garden Plain	1045S	ATCO	42-Hanna	542002	240	167
Ghost Pine	114S	ATCO	42-Hanna	603	138	20
Gleichen	179S	AltaLink	45-Strathmore/ Blackie	254	138	0
Glenwood	229S	AltaLink	55-Glenwood	245	69	14
Goldeye	620S	ATCO	36-Alliance/Battle River	1467	240	109
Goose Lake	103S	AltaLink	53-Fort Macleod	346	240	225
Goose Lake	103S	AltaLink	53-Fort Macleod	296	138	179
Granlea	1024S	AltaLink	04-Medicine Hat	994	240	0
Granum	604S	AltaLink	49-Stavely	894	138	1
Grizzly Bear	708S	ATCO	13-Lloydminster	1308	138	1
Halkirk	615S	ATCO	42-Hanna	1435	240	62
Halsbury	306S	AltaLink	48-Empress	798	240	9
Hanna	763S	ATCO	42-Hanna	1408	69	28
Hansman Lake	650S	AltaLink	37-Provost	649	240	280

Name	Facility Code	TFO[1]	Planning Area	Bus Number	Voltage (kV)	Capability (MW)[2]
Hansman Lake	650S	AltaLink	37-Provost	648	138	297
Hardisty	377S	AltaLink	32-Wainwright	73	138	208
Hartell	512S	AltaLink	46-High River	243	138	0
Hays	421S	AltaLink	52-Vauxhall	401	138	0
Hayter	277S	AltaLink	37-Provost	220	138	180
Heatburg	948S	ATCO	42-Hanna	1429	138	27
Heisler	764S	ATCO	36-Alliance/Battle River	1464	138	126
Heisler	764S	ATCO	36-Alliance/Battle River	1400	69	39
High River	65S	AltaLink	46-High River	242	138	0
High River	65S	AltaLink	46-High River	236	69	0
Highland	572S	ATCO	42-Hanna	549045	138	13
Hilda	662S	AltaLink	48-Empress	540004	138	0
Hill	751S	ATCO	13-Lloydminster	1393	138	166
Hillridge	139S	AltaLink	54-Lethbridge	389	138	7
Holsom	1054S	AltaLink	04-Medicine Hat	549034	138	0
HRT Express	329S	AltaLink	32-Wainwright	37	138	87
Hughenden	213S	AltaLink	37-Provost	75	138	134
Hull	257S	AltaLink	52-Vauxhall	2400	138	4
Hussar	431S	AltaLink	45-Strathmore/Blackie	315	138	0
Irish Creek	706S	ATCO	13-Lloydminster	1377	138	121
Jarrow	252S	AltaLink	32-Wainwright	72	138	101
Jenner	275S	AltaLink	48-Empress	260	240	9
Jenner	275S	AltaLink	48-Empress	292	138	9
Kettle's Hill	383S	AltaLink	53-Fort Macleod	402	138	111
Killarney Lake	267S	AltaLink	37-Provost	219	138	153

Name	Facility Code	TFO[1]	Planning Area	Bus Number	Voltage (kV)	Capability (MW)[2]
Kitscoty	705S	ATCO	13-Lloydminster	1387	138/144	146
Lakesend	508S	AltaLink	42-Hanna	716	138	87
Lakeview	593S	City of Lethbridge	54-Lethbridge	697	138	19
Lanes Lake	973S	ATCO	42-Hanna	1418	240	62
Lanfine	959S	ATCO	42-Hanna	1438	240	248
Lanfine	959S	ATCO	42-Hanna	19438	138	140
Little Bow	991S	AltaLink	49-Stavely	549026	240	1
Lloydminster	716S	ATCO	13-Lloydminster	1455	138	146
Loyalist	903S	ATCO	42-Hanna	1458	138	86
Lundbreck	513S	AltaLink	53-Fort Macleod	347	69	10
Macdonald	146S	City of Lethbridge	54-Lethbridge	696	138	20
Magcan	142S	AltaLink	46-High River	240	138	0
Magrath	225S	AltaLink	55-Glenwood	694	138	18
Magrath	225S	AltaLink	55-Glenwood	693	69	15
Mannix Mine	765S	ATCO	36-Alliance/Battle River	1488	69	47
Marion Lake	873S	ATCO	42-Hanna	1437	69	53
McBride Lake	240S	AltaLink	53-Fort Macleod	901	138	23
Metiskow	648S	AltaLink	37-Provost	74	138	297
Metiskow	648S	AltaLink	37-Provost	87	240	280
Michichi Creek	802S	ATCO	42-Hanna	1448	144	20
Michichi Creek	802S	ATCO	42-Hanna	1449	69	22
Milo	356S	AltaLink	47-Brooks	943	240	549
Monarch	492S	AltaLink	54-Lethbridge	400	138	20
Monitor	774S	ATCO	42-Hanna	1471	138	176
Monitor	774S	ATCO	42-Hanna	1472	69	32
Murray Lake	326S	AltaLink	04-Medicine Hat	838	240	0
Namaka	428S	AltaLink	45-Strathmore/Blackie	340	138	0

Name	Facility Code	TFO[1]	Planning Area	Bus Number	Voltage (kV)	Capability (MW)[2]
Nevis	766S	ATCO	42-Hanna	1422	240	229
Nevis	766S	ATCO	42-Hanna	1423	138	129
Newell	2075S	AltaLink	47-Brooks	1012	240	345
Nilrem	574S	AltaLink	32-Wainwright	1427	240	254
Nilrem	574S	AltaLink	32-Wainwright	19427	138	222
North Holden	395S	AltaLink	56-Vegreville	68	138	5
North Lethbridge	370S	AltaLink	54-Lethbridge	167	240	162
North Lethbridge	370S	AltaLink	54-Lethbridge	692	138	20
Oakland	946S	ATCO	43-Sheerness	1440	240	242
Okotoks	678S	AltaLink	46-High River	239	138	0
Oldman River	806S	AltaLink	53-Fort Macleod	230	138	66
Oyen	767S	ATCO	42-Hanna	1474	144	12
Oyen	767S	ATCO	42-Hanna	1475	69	27
Paintearth Creek	863S	ATCO	36-Alliance/Battle River	1403	240	247
Peace Butte	404S	AltaLink	04-Medicine Hat	284	138	0
Peigan	59S	AltaLink	53-Fort Macleod	165	240	224
Peigan	59S	AltaLink	53-Fort Macleod	166	138	207
Pemukan	932S	ATCO	42-Hanna	1419	240	310
Pemukan	932S	ATCO	42-Hanna	19419	138	187
Picture Butte	120S	AltaLink	54-Lethbridge	451	240	121
Pincher Creek	396S	AltaLink	53-Fort Macleod	224	138	130
Pincher Creek	396S	AltaLink	53-Fort Macleod	223	69	54
Provost	545S	AltaLink	37-Provost	86	138	128
Queenstown	504S	AltaLink	45-Strathmore/Blackie	333	138	7
Rangeland Yarrow	995S	AltaLink	55-Glenwood	228	69	24

Name	Facility Code	TFO[1]	Planning Area	Bus Number	Voltage (kV)	Capability (MW)[2]
Rattlesnake Ridge	719S	AltaLink	04-Medicine Hat	873	138	3
Raymond Reservoir	313S	AltaLink	55-Glenwood	413	69	1
Red Coat	967S	AltaLink	54-Lethbridge	1630	138	2
Ribstone Creek	892S	ATCO	42-Hanna	1477	138	104
Richdale	776S	ATCO	42-Hanna	1478	69	16
Riverbend	618S	AltaLink	54-Lethbridge	699	138	20
Rosyth	296S	AltaLink	32-Wainwright	373	138	80
Rowley	768S	ATCO	42-Hanna	1436	138	23
Russell	632S	AltaLink	53-Fort Macleod	656	138	130
Saddlebrook	303S	AltaLink	46-High River	557240	138	0
Sand Hills Sub	341S	AltaLink	48-Empress	111	138	4
Sandy Point	204S	AltaLink	48-Empress	53	138	4
Sedalia	363S	ATCO	42-Hanna	831	240	169
Sedgewick	137S	AltaLink	32-Wainwright	78	138	80
Shamrock	1018S	AltaLink	04-Medicine Hat	990	240	0
Sheerness	807S	ATCO	43-Sheerness	1481	240	65
Sheerness	807S	ATCO	43-Sheerness	1486	240	75
Shell Waterton	502S	AltaLink	55-Glenwood	231	69	44
Soderglen	243S	AltaLink	53-Fort Macleod	358	138	43
Spring Coulee	385S	AltaLink	55-Glenwood	246	69	9
St. Paul	707S	ATCO	56-Vegreville	1372	138	28
Stavely	349S	AltaLink	49-Stavely	235	138	1
Stettler	769S	ATCO	42-Hanna	1428	138	142
Stettler	769S	ATCO	42-Hanna	1439	69	85
Stirling	67S	AltaLink	55-Glenwood	293	138	2
Stirling	67S	AltaLink	55-Glenwood	280	69	1

Name	Facility Code	TFO[1]	Planning Area	Bus Number	Voltage (kV)	Capability (MW)[2]
Strathmore	151S	AltaLink	45-Strathmore/ Blackie	259	138	0
Strome	223S	AltaLink	56-Vegreville	76	138	13
Suffield	895S	AltaLink	04-Medicine Hat	270	138	0
Sullivan Lake	775S	ATCO	42-Hanna	1406	69	47
Summervie w	354S	AltaLink	53-Fort Macleod	336	138	22
Sunken Lake	221S	AltaLink	37-Provost	112	138	86
Taber	83S	AltaLink	52-Vauxhall	272	138	5
Taber Wind Farm	134S	AltaLink	52-Vauxhall	343	138	2
Taylor Hydro Plant		AltaLink	55-Glenwood	670	69	15
Three Hills	770S	ATCO	42-Hanna	1433	138	21
Tilley	498S	AltaLink	47-Brooks	275	138	0
Tinchebray	972S	ATCO	36-Alliance/Battl e River	1431	240	110
Travers	554S	AltaLink	49-Stavely	737	240	216
Tucuman	478S	AltaLink	32-Wainwright	483	138	203
Uplands	241S	City of Lethbridge	54-Lethbridge	691	138	19
Vauxhall	158S	AltaLink	52-Vauxhall	274	138	8
Vegreville	709S	ATCO	56-Vegreville	1367	138	3
Vermilion	710S	ATCO	13-Lloydminster	1383	138	136
Veteran	771S	ATCO	42-Hanna	1470	138	109
Vilna	777S	ATCO	56-Vegreville	1357	138	6
Vulcan	255S	AltaLink	49-Stavely	244	138	2
Wainwright	51S	AltaLink	32-Wainwright	297	138	99
Wardlow	230S	AltaLink	48-Empress	344	138	9
Ware Junction	132S	AltaLink	47-Brooks	225	240	300
Warner	344S	AltaLink	55-Glenwood	278	69	1
Waterton	379S	AltaLink	55-Glenwood	227	69	44
Watt Lake	956S	ATCO	56-Vegreville	1361	138	4

Name	Facility Code	TFO[1]	Planning Area	Bus Number	Voltage (kV)	Capability (MW)[2]
West Brooks	28S	AltaLink	47-Brooks	430	240	339
West Brooks	28S	AltaLink	47-Brooks	276	138	0
Westfield	107S	AltaLink	52-Vauxhall	277	138	2
Wheatcrest	1039S	AltaLink	52-Vauxhall	549039	138	0
Wheatland	609S	ATCO	43-Sheerness	759	138	18
Whitbylake	819S	ATCO	56-Vegreville	1350	138	7
Whitla	251S	AltaLink	04-Medicine Hat	662	240	0
Windrise	1063S	AltaLink	53-Fort Macleod	549031	138	125
Windy Flats	138S	AltaLink	53-Fort Macleod	746	240	224
Windy Flats	138S	AltaLink	53-Fort Macleod	654	138	203
Windy Flats	138S	AltaLink	53-Fort Macleod	745	138	203
Windy Point	112S	AltaLink	53-Fort Macleod	543	138	64
Wintering Hills	804S	ATCO	43-Sheerness	1460	138	18
Woolchester	1019S	AltaLink	04-Medicine Hat	549003	240	0
Wyndham	269S	AltaLink	45-Strathmore/ Blackie	5251	138	0
Youngstown	772S	ATCO	42-Hanna	1476	69	10
Youngstown Express	2037S	ATCO	42-Hanna	1480	69	17

Attachment B: Transmission Line Capability

Line Name	Voltage (kV)	Substation Name	Facility Code	Planning Area	TFO	Capability (MW)[3]
1002L [275S-163S]	240	Amoco Empress	163S	48-Empress	AltaLink	5
1002L [275S-163S]	240	Jenner	275S	48-Empress	AltaLink	9
1005AL [1005BL-991S]	240	Little Bow	991S	49-Stavely	AltaLink	1
1005L [356S-1005BL]	240	Milo	356S	54-Lethbridge	AltaLink	1
1005L [120S-1005BL]	240	Picture Butte	120S	54-Lethbridge	AltaLink	1
100L [895S-498S]	138	Tilley	498S	47-Brooks	AltaLink	0
100L [895S-498S]	138	Suffield	895S	47-Brooks	AltaLink	0
1011L [163S-562S]	240	Amoco Empress	163S	48-Empress	AltaLink	5
1011L [163S-562S]	240	Cypress	562S	48-Empress	AltaLink	5
1012L [516S-965L]	240	Forty Mile	516S	04-Medicine Hat	AltaLink	0
1012L [516S-965L]	240	Murray Lake	326S	04-Medicine Hat	AltaLink	0
1034L [244S-324S]	240	Bowmanton	244S	04-Medicine Hat	AltaLink	0
1034L [244S-324S]	240	Cassils	324S	04-Medicine Hat	AltaLink	340
1035L [244S-2075S]	240	Newell	2075S	47-Brooks	AltaLink	345
1035L [244S-2075S]	240	Bowmanton	244S	47-Brooks	AltaLink	0
1036L [554S-356S]	240	Milo	356S	47-Brooks	AltaLink	150
1036L [554S-356S]	240	Travers	554S	47-Brooks	AltaLink	216
1037L [266S-138S]	240	Windy Flats	138S	53-Fort Macleod	AltaLink	224
1037L [237S-266S]	240	Foothills	237S	53-Fort Macleod	AltaLink	0

[3] The T-tap connection capability for transmission lines will vary along the line depending on the T-tap location. As the T-tap location nears each substation, the T-tap capability approaches the MW value shown.

Line Name	Voltage (kV)	Substation Name	Facility Code	Planning Area	TFO	Capability (MW)[3]
1038L [266S-138S]	240	Windy Flats	138S	53-Fort Macleod	AltaLink	224
1038L [237S-266S]	240	Foothills	237S	53-Fort Macleod	AltaLink	0
1041L [370S-554S]	240	North Lethbridge	370S	54-Lethbridge	AltaLink	162
1041L [370S-554S]	240	Travers	554S	54-Lethbridge	AltaLink	216
1042L [485S-554S]	240	Blackspring Ridge	485S	49-Stavely	AltaLink	166
1042L [485S-554S]	240	Travers	554S	49-Stavely	AltaLink	166
1047L [650S-574S]	240	Nilrem	574S	32-Wainwright	AltaLink	254
1047L [650S-574S]	240	Hansman Lake	650S	32-Wainwright	AltaLink	280
1048L [59S-138S]	240	Windy Flats	138S	53-Fort Macleod	AltaLink	224
1048L [59S-138S]	240	Peigan	59S	53-Fort Macleod	AltaLink	224
1049L [59S-138S]	240	Windy Flats	138S	53-Fort Macleod	AltaLink	224
1049L [59S-138S]	240	Peigan	59S	53-Fort Macleod	AltaLink	224
1051L [28S-324S]	240	West Brooks	28S	47-Brooks	AltaLink	339
1051L [28S-324S]	240	Cassils	324S	47-Brooks	AltaLink	340
1052L [28S-324S]	240	West Brooks	28S	47-Brooks	AltaLink	339
1052L [28S-324S]	240	Cassils	324S	47-Brooks	AltaLink	340
1053L [132S-324S]	240	Ware Junction	132S	47-Brooks	AltaLink	300
1053L [132S-324S]	240	Cassils	324S	47-Brooks	AltaLink	340
1071L [205S-312S]	240	Castle Rock Ridge	205S	53-Fort Macleod	AltaLink	226
1071L [205S-312S]	240	Fidler	312S	53-Fort Macleod	AltaLink	226
1072L [205S-103S]	240	Goose Lake	103S	53-Fort Macleod	AltaLink	225
1072L [205S-103S]	240	Castle Rock Ridge	205S	53-Fort Macleod	AltaLink	226

Line Name	Voltage (kV)	Substation Name	Facility Code	Planning Area	TFO	Capability (MW)[3]
1074AL [1074L-1019S]	240	Woolchester	1019S	04-Medicine Hat	AltaLink	0
1074L [244S-1074L]	240	Bowmanton	244S	04-Medicine Hat	AltaLink	0
1074L [264S-1074L]	240	Elkwater	264S	04-Medicine Hat	AltaLink	0
1075L [132S-28S]	240	Ware Junction	132S	47-Brooks	AltaLink	300
1075L [132S-28S]	240	West Brooks	28S	47-Brooks	AltaLink	293
1087L [324S-2075S]	240	Newell	2075S	47-Brooks	AltaLink	222
1087L [324S-2075S]	240	Cassils	324S	47-Brooks	AltaLink	340
1088L [324S-2075S]	240	Newell	2075S	47-Brooks	AltaLink	345
1088L [324S-2075S]	240	Cassils	324S	47-Brooks	AltaLink	340
1097L [356S-611S]	240	Amber	611S	47-Brooks	AltaLink	0
1097L [356S-611S]	240	Milo	356S	47-Brooks	AltaLink	0
1106L [SS-65-237S]	240	Foothills	237S	46-High River	AltaLink	0
1106L [SS-65-237S]	240	SS-65		46-High River	AltaLink	466
1107L [SS-65-237S]	240	Foothills	237S	46-High River	AltaLink	0
1107L [SS-65-237S]	240	SS-65		46-High River	AltaLink	466
1148L [251S-1018S]	240	Shamrock	1018S	04-Medicine Hat	AltaLink	0
1148L [251S-1018S]	240	Whitla	251S	04-Medicine Hat	AltaLink	0
13L/158L [65S-392S]	69	Black Diamond	392S	46-High River	AltaLink	0
13L/158L [65S-392S]	69	High River	65S	46-High River	AltaLink	0
161L [255S-504S]	138	Vulcan	255S	49-Stavely	AltaLink	2
161L [255S-504S]	138	Queenstown	504S	49-Stavely	AltaLink	7
162L [415S-229S]	69	Glenwood	229S	55-Glenwood	AltaLink	14

Line Name	Voltage (kV)	Substation Name	Facility Code	Planning Area	TFO	Capability (MW)[3]
162L [415S-229S]	69	Drywood	415S	55-Glenwood	AltaLink	22
164L [415S-103S]	138	Goose Lake	103S	53-Fort Macleod	AltaLink	91
164L [415S-103S]	138	Drywood	415S	53-Fort Macleod	AltaLink	81
170L [170AL-799S]	138	Coleman	799S	53-Fort Macleod	AltaLink	131
170L [170AL-799S]	138	Russell	632S	53-Fort Macleod	AltaLink	130
172EL [139S-172EL]	138	Hillridge	139S	54-Lethbridge	AltaLink	7
172L [83S-172EL]	138	Taber	83S	54-Lethbridge	City of Lethbridge	5
172L [181S-370S]	138	Chinook	181S	54-Lethbridge	City of Lethbridge	20
172L [254S-370S]	138	Coaldale	254S	54-Lethbridge	City of Lethbridge	9
172L [254S-172EL]	138	Coaldale	254S	54-Lethbridge	City of Lethbridge	9
172L [181S-370S]	138	North Lethbridge	370S	54-Lethbridge	City of Lethbridge	20
172L [254S-370S]	138	North Lethbridge	370S	54-Lethbridge	City of Lethbridge	20
174L [197S-395S]	138	North Holden	395S	31-Wetaskiwin	AltaLink	5
174L [197S-395S]	138	Bardo	197S	31-Wetaskiwin	AltaLink	9
180AL [180L-604S]	138	Granum	604S	49-Stavely	AltaLink	1
180L [928S-180L]	138	East Stavely	928S	53-Fort Macleod	AltaLink	1
180L [255S-928S]	138	Vulcan	255S	53-Fort Macleod	AltaLink	2
180L [15S-180L]	138	Fort Macleod	15S	53-Fort Macleod	AltaLink	3
180L [255S-928S]	138	East Stavely	928S	53-Fort Macleod	AltaLink	1
185AL [415S-995S]	69	Drywood	415S	55-Glenwood	AltaLink	24
185AL [415S-995S]	69	Rangeland Yarrow	995S	55-Glenwood	AltaLink	24
185L [415S-379S]	69	Waterton	379S	55-Glenwood	AltaLink	44

Line Name	Voltage (kV)	Substation Name	Facility Code	Planning Area	TFO	Capability (MW)[3]
185L [396S-379S]	69	Waterton	379S	55-Glenwood	AltaLink	43
185L [415S-379S]	69	Drywood	415S	55-Glenwood	AltaLink	34
185L [396S-379S]	69	Pincher Creek	396S	55-Glenwood	AltaLink	44
197L [349S-928S]	138	Stavely	349S	49-Stavely	AltaLink	1
197L [349S-928S]	138	East Stavely	928S	49-Stavely	AltaLink	1
207L [111S-370S]	138	Coalbanks	111S	54-Lethbridge	City of Lethbridge	20
207L [111S-370S]	138	North Lethbridge	370S	54-Lethbridge	City of Lethbridge	20
225AL [313S-225AL]	69	Raymond Reservoir	313S	55-Glenwood	AltaLink	1
225L [67S-225AL]	69	Stirling	67S	55-Glenwood	AltaLink	1
225L [229S-385S]	69	Glenwood	229S	55-Glenwood	AltaLink	14
225L [385S-225S]	69	Magrath	225S	55-Glenwood	AltaLink	5
225L [225S-225AL]	69	Magrath	225S	55-Glenwood	AltaLink	0
225L [229S-385S]	69	Spring Coulee	385S	55-Glenwood	AltaLink	9
225L [385S-225S]	69	Spring Coulee	385S	55-Glenwood	AltaLink	9
300L/725BL [300L-240S]	138	McBride Lake	240S	53-Fort Macleod	AltaLink	23
398L [545S-277S]	138	Hayter	277S	37-Provost	AltaLink	180
398L [545S-277S]	138	Provost	545S	37-Provost	AltaLink	128
408L [252S-51S]	138	Jarrow	252S	32-Wainwright	AltaLink	64
408L [252S-51S]	138	Wainwright	51S	32-Wainwright	AltaLink	84
412L [396S-632S]	138	Pincher Creek	396S	53-Fort Macleod	AltaLink	130
412L [396S-632S]	138	Russell	632S	53-Fort Macleod	AltaLink	130
413L [239S-632S]	138	Castle River	239S	53-Fort Macleod	AltaLink	69

Line Name	Voltage (kV)	Substation Name	Facility Code	Planning Area	TFO	Capability (MW)[3]
413L [239S-632S]	138	Russell	632S	53-Fort Macleod	AltaLink	69
434L [65S-237S]	138	Foothills	237S	46-High River	AltaLink	0
434L [65S-237S]	138	High River	65S	46-High River	AltaLink	0
463AL [492S-463AL]	138	Monarch	492S	54-Lethbridge	AltaLink	20
463L [15S-463AL]	138	Fort Macleod	15S	53-Fort Macleod	AltaLink	23
463L [181S-463AL]	138	Chinook	181S	53-Fort Macleod	AltaLink	20
472AL [221S-472AL]	138	Sunken Lake	221S	37-Provost	AltaLink	86
472L [648S-472AL]	138	Metiskow	648S	37-Provost	AltaLink	144
472L [213S-472AL]	138	Hughenden	213S	37-Provost	AltaLink	117
491L [252S-474L]	138	Jarrow	252S	32-Wainwright	AltaLink	101
497L [138S-1063S]	138	Windrise	1063S	53-Fort Macleod	AltaLink	125
497L [138S-1063S]	138	Windy Flats	138S	53-Fort Macleod	AltaLink	124
498L [523S-1054S]	138	Bullshead	523S	04-Medicine Hat	-	0
498L [523S-1054S]	138	Holsom	1054S	04-Medicine Hat	-	0
507L [83S-257S]	138	Hull	257S	52-Vauxhall	AltaLink	4
507L [83S-257S]	138	Taber	83S	52-Vauxhall	AltaLink	5
508L [344S-67S]	69	Warner	344S	55-Glenwood	AltaLink	1
508L [344S-67S]	69	Stirling	67S	55-Glenwood	AltaLink	1
514BL [322S-514BL]	69	Cowley Ridge	322S	53-Fort Macleod	AltaLink	10
514L [396S-514BL]	69	Pincher Creek	396S	53-Fort Macleod	AltaLink	10
514L [513S-514BL]	69	Lundbreck	513S	53-Fort Macleod	AltaLink	10
591L [379S-502S]	69	Waterton	379S	55-Glenwood	AltaLink	44
591L [379S-502S]	69	Shell Waterton	502S	55-Glenwood	AltaLink	44

Line Name	Voltage (kV)	Substation Name	Facility Code	Planning Area	TFO	Capability (MW)[3]
600L [523S-404S]	138	Peace Butte	404S	04-Medicine Hat	AltaLink	0
600L [523S-404S]	138	Bullshead	523S	04-Medicine Hat	AltaLink	0
601L [275S-230S]	138	Wardlow	230S	48-Empress	AltaLink	9
601L [275S-230S]	138	Jenner	275S	48-Empress	AltaLink	9
603L [243S-603L]	138	Soderglen	243S	53-Fort Macleod	AltaLink	43
603L [138S-603L]	138	Windy Flats	138S	53-Fort Macleod	AltaLink	42
607AL [134S-607AL]	138	Taber Wind Farm	134S	52-Vauxhall	AltaLink	2
607L [336S-607AL]	138	Fincastle	336S	52-Vauxhall	AltaLink	2
607L [135S-607AL]	138	Conrad	135S	52-Vauxhall	AltaLink	2
608AL [528S-608AL]	138	Blue Trail	528S	53-Fort Macleod	AltaLink	38
608L [418S-608AL]	138	Ardenville	418S	53-Fort Macleod	AltaLink	38
608L [138S-608AL]	138	Windy Flats	138S	53-Fort Macleod	AltaLink	38
610L [336S-83S]	138	Fincastle	336S	52-Vauxhall	AltaLink	2
610L [336S-83S]	138	Taber	83S	52-Vauxhall	AltaLink	1
612L [336S-368S]	138	Fincastle	336S	52-Vauxhall	AltaLink	2
612L [336S-368S]	138	Burdett	368S	52-Vauxhall	AltaLink	2
613L [396S-103S]	138	Goose Lake	103S	53-Fort Macleod	AltaLink	95
613L [396S-103S]	138	Pincher Creek	396S	53-Fort Macleod	AltaLink	130
616AL [383S-616AL]	138	Kettle's Hill	383S	53-Fort Macleod	AltaLink	111
616L [59S-616AL]	138	Peigan	59S	53-Fort Macleod	AltaLink	90
616L [103S-616AL]	138	Goose Lake	103S	53-Fort Macleod	AltaLink	155
624L [354S-312S]	138	Fidler	312S	53-Fort Macleod	AltaLink	23
624L [354S-312S]	138	Summerview	354S	53-Fort Macleod	AltaLink	22

Line Name	Voltage (kV)	Substation Name	Facility Code	Planning Area	TFO	Capability (MW)[3]
646L [678S-237S]	138	Foothills	237S	46-High River	AltaLink	0
646L [678S-237S]	138	Okotoks	678S	46-High River	AltaLink	0
658AL [662S-658AL]	138	Hilda	662S	48-Empress	AltaLink	0
658L [562S-658AL]	138	Cypress	562S	48-Empress	AltaLink	1
658L [649S-658AL]	138	Chappice Lake	649S	48-Empress	AltaLink	0
666L [498S-28S]	138	West Brooks	28S	47-Brooks	AltaLink	0
666L [498S-28S]	138	Tilley	498S	47-Brooks	AltaLink	0
667L [370S-146S]	138	Macdonald	146S	54-Lethbridge	City of Lethbridge	20
667L [370S-146S]	138	North Lethbridge	370S	54-Lethbridge	City of Lethbridge	20
668L [394S-562S]	138	Empress	394S	48-Empress	AltaLink	4
668L [394S-562S]	138	Cypress	562S	48-Empress	AltaLink	4
669L [163S-562S]	138	Amoco Empress	163S	48-Empress	AltaLink	4
669L [163S-562S]	138	Cypress	562S	48-Empress	AltaLink	4
674L [649S-244S]	138	Bowmanton	244S	04-Medicine Hat	AltaLink	0
674L [649S-244S]	138	Chappice Lake	649S	04-Medicine Hat	AltaLink	0
675L [244S-321S]	138	Bowmanton	244S	04-Medicine Hat	AltaLink	0
675L [244S-321S]	138	Al Rothbauer	321S	04-Medicine Hat	AltaLink	0
676L [523S-244S]	138	Bowmanton	244S	04-Medicine Hat	AltaLink	0
676L [523S-244S]	138	Bullshead	523S	04-Medicine Hat	AltaLink	0
679L [478S-574S]	138	Tucuman	478S	32-Wainwright	AltaLink	162
679L [478S-574S]	138	Nilrem	574S	32-Wainwright	AltaLink	215
680L [478S-574S]	138	Tucuman	478S	32-Wainwright	AltaLink	162
680L [478S-574S]	138	Nilrem	574S	32-Wainwright	AltaLink	215

Line Name	Voltage (kV)	Substation Name	Facility Code	Planning Area	TFO	Capability (MW)[3]
681L [377S-478S]	138	Hardisty	377S	32-Wainwright	AltaLink	208
681L [377S-478S]	138	Tucuman	478S	32-Wainwright	AltaLink	202
691L [74S-419S]	138	Chestermere	419S	6-Calgary	AltaLink	25
691L [74S-419S]	138	Janet	74S	6-Calgary	AltaLink	25
696L/7L696 [508S-892S]	138	Lakesend	508S	42-Hanna	AltaLink	87
696L/7L696 [508S-892S]	138	Ribstone Creek	892S	42-Hanna	AltaLink	85
6L02 [757S-765S]	69	Battle River	757S	36-Alliance/Battle River	ATCO	55
6L02 [769S-000S]	69	Stettler	769S	36-Alliance/Battle River	ATCO	61
6L03 [775S-6L03]	69	Sullivan Lake	775S	36-Alliance/Battle River	ATCO	47
6L03 [6L03-757S]	69	Battle River	757S	36-Alliance/Battle River	ATCO	47
6L05 [843S-757S]	69	Battle River	757S	36-Alliance/Battle River	ATCO	56
6L05 [764S-6L05]	69	Heisler	764S	36-Alliance/Battle River	ATCO	39
6L05 [843S-757S]	69	Big Knife Creek	843S	36-Alliance/Battle River	ATCO	57
6L05 [843S-6L05]	69	Big Knife Creek	843S	36-Alliance/Battle River	ATCO	57
6L08 [757S-756S]	69	Bigfoot	756S	36-Alliance/Battle River	ATCO	48
6L08 [757S-756S]	69	Battle River	757S	36-Alliance/Battle River	ATCO	48
6L09 [767S-6L09]	69	Oyen	767S	42-Hanna	ATCO	15
6L09 [763S-776S]	69	Hanna	763S	42-Hanna	ATCO	14

Line Name	Voltage (kV)	Substation Name	Facility Code	Planning Area	TFO	Capability (MW)[3]
6L09 [772S-772S]	69	Youngstown	772S	42-Hanna	ATCO	10
6L09 [776S-776S]	69	Richdale	776S	42-Hanna	ATCO	16
6L12 [775S-6L12]	69	Sullivan Lake	775S	42-Hanna	ATCO	18
6L15 [775S-763S]	69	Hanna	763S	42-Hanna	ATCO	28
6L15 [775S-763S]	69	Sullivan Lake	775S	42-Hanna	ATCO	15
6L17 [759S-6L03]	69	Castor	759S	42-Hanna	ATCO	57
6L21 [6L09-YOUNGSTOWN-EXPRESS]	69	Hurd	2037S	42-Hanna	ATCO	17
6L25 [773S-6L12]	69	Coronation	773S	42-Hanna	ATCO	20
6L44 [769S-778S]	69	Stettler	769S	42-Hanna	ATCO	9
6L44 [769S-778S]	69	Big Valley	778S	42-Hanna	ATCO	9
6L56 [763S-802S]	69	Hanna	763S	42-Hanna	ATCO	16
6L56 [763S-802S]	69	Michichi Creek	802S	42-Hanna	ATCO	22
6LA02 [765S-765S]	69	Mannix Mine	765S	36-Alliance/Battle River	ATCO	47
6LA09 [772S-772S]	69	Youngstown	772S	42-Hanna	ATCO	10
6LB02 [873S-000S]	69	Marion Lake	873S	42-Hanna	ATCO	53
701L [395S-223S]	138	Strome	223S	56-Vegreville	AltaLink	13
701L [395S-223S]	138	North Holden	395S	56-Vegreville	AltaLink	5
701L/7L701 [223S-7LA701]	138	Strome	223S	56-Vegreville	AltaLink	12
702AL [137S-000S]	138	Sedgewick	137S	32-Wainwright	AltaLink	80
702L [377S-000S]	138	Hardisty	377S	32-Wainwright	AltaLink	64
702L/7L702 [757S-000S]	138	Battle River	757S	32-Wainwright	AltaLink	105

Line Name	Voltage (kV)	Substation Name	Facility Code	Planning Area	TFO	Capability (MW)[3]
703BL [329S-703L]	138	HRT Express	329S	32-Wainwright	AltaLink	87
703L [377S-703L]	138	Hardisty	377S	37-Provost	AltaLink	85
703L [213S-703L]	138	Hughenden	213S	37-Provost	AltaLink	134
704L [51S-478S]	138	Tucuman	478S	32-Wainwright	AltaLink	70
704L [51S-478S]	138	Wainwright	51S	32-Wainwright	AltaLink	59
715AL [650S-715AL]	138	Hansman Lake	650S	37-Provost	AltaLink	126
715L [545S-715AL]	138	Provost	545S	37-Provost	AltaLink	128
722L [368S-107S]	138	Westfield	107S	52-Vauxhall	AltaLink	2
722L [368S-107S]	138	Burdett	368S	52-Vauxhall	AltaLink	2
725AL [618S-725AL]	138	Riverbend	618S	54-Lethbridge	AltaLink	20
725L [15S-300L]	138	Fort Macleod	15S	54-Lethbridge	City of Lethbridge	23
725L [111S-725AL]	138	Coalbanks	111S	54-Lethbridge	City of Lethbridge	20
725L [674S-300L]	138	Bowron	674S	54-Lethbridge	City of Lethbridge	20
725L [674S-725AL]	138	Bowron	674S	54-Lethbridge	City of Lethbridge	20
727A1L [695L-303S]	138	Saddlebrook	303S	46-High River	AltaLink	0
727AL [142S-695L]	138	Magcan	142S	46-High River	AltaLink	0
727L [678S-727AL]	138	Okotoks	678S	46-High River	AltaLink	0
727L [65S-727AL]	138	High River	65S	46-High River	AltaLink	0
733L [179S-428S]	138	Gleichen	179S	45-Strathmore/ Blackie	AltaLink	0
733L [151S-428S]	138	Strathmore	151S	45-Strathmore/ Blackie	AltaLink	0

Line Name	Voltage (kV)	Substation Name	Facility Code	Planning Area	TFO	Capability (MW)[3]
733L [179S-428S]	138	Namaka	428S	45-Strathmore/ Blackie	AltaLink	0
733L [151S-428S]	138	Namaka	428S	45-Strathmore/ Blackie	AltaLink	0
734L [241S-370S]	138	Uplands	241S	54-Lethbridge	City of Lethbridge	19
734L [241S-370S]	138	North Lethbridge	370S	54-Lethbridge	City of Lethbridge	20
748L [267S-277S]	138	Killarney Lake	267S	37-Provost	AltaLink	129
748L [267S-277S]	138	Hayter	277S	37-Provost	AltaLink	180
749AL [267S-749AL]	138	Killarney Lake	267S	37-Provost	AltaLink	153
749L [648S-749AL]	138	Metiskow	648S	37-Provost	AltaLink	131
749L [899S-749AL]	138	Edgerton	899S	37-Provost	AltaLink	152
749L/7L749 [899S-7LB749]	138	Edgerton	899S	37-Provost	AltaLink	126
753L [65S-253S]	138	Blackie	253S	45-Strathmore/ Blackie	AltaLink	0
753L [65S-253S]	138	High River	65S	45-Strathmore/ Blackie	AltaLink	0
760AL [164S-760AL]	138	Empress Liquids	164S	48-Empress	AltaLink	4
760L [163S-760AL]	138	Amoco Empress	163S	48-Empress	AltaLink	4
760L [394S-163S]	138	Amoco Empress	163S	48-Empress	AltaLink	4
760L [394S-163S]	138	Empress	394S	48-Empress	AltaLink	4
763A1L [763L-1039S]	138	Wheatcrest	1039S	52-Vauxhall	AltaLink	0
763AL [447S-763L]	138	Enchant	447S	52-Vauxhall	AltaLink	0
763L [158S-763L]	138	Vauxhall	158S	52-Vauxhall	AltaLink	8
763L [158S-257S]	138	Vauxhall	158S	52-Vauxhall	AltaLink	8

Line Name	Voltage (kV)	Substation Name	Facility Code	Planning Area	TFO	Capability (MW)[3]
763L [28S-763L]	138	West Brooks	28S	52-Vauxhall	AltaLink	0
763L [158S-257S]	138	Hull	257S	52-Vauxhall	AltaLink	4
765L [151S-419S]	138	Strathmore	151S	45-Strathmore/ Blackie	AltaLink	0
765L [151S-419S]	138	Chestermere	419S	45-Strathmore/ Blackie	AltaLink	2
769AL [656S-769AL]	138	Clipper	656S	32-Wainwright	AltaLink	89
769BL [594S-769BL]	138	Battle Sands	594S	32-Wainwright	AltaLink	97
769L [377S-769BL]	138	Hardisty	377S	32-Wainwright	AltaLink	96
769L [296S-769AL]	138	Rosyth	296S	32-Wainwright	AltaLink	80
770L [254S-370S]	138	Coaldale	254S	54-Lethbridge	AltaLink	9
770L [254S-370S]	138	North Lethbridge	370S	54-Lethbridge	AltaLink	20
782L [525S-CARSELAND-COGEN]	138	Carseland	525S	45-Strathmore/ Blackie	AltaLink	0
782L [525S-CARSELAND-COGEN]	138	Wyndham	269S	45-Strathmore/ Blackie	AltaLink	0
786L [799S-BC-EQUIV]	138	Coleman	799S	53-Fort Macleod	AltaLink	119
794L/7L794 [157S-819S]	138	Whitbylake	819S	27-Athabasca/ Lac La Biche	AltaLink	7
794L/7L794 [157S-819S]	138	Lac La Biche	157S	27-Athabasca/ Lac La Biche	AltaLink	15
795L [121S-421S]	138	Brooks	121S	47-Brooks	AltaLink	0
795L [121S-421S]	138	Hays	421S	47-Brooks	AltaLink	0
7L110 [903S-774S]	138	Monitor	774S	42-Hanna	ATCO	86

Line Name	Voltage (kV)	Substation Name	Facility Code	Planning Area	TFO	Capability (MW)[3]
7L110 [903S-774S]	138	Loyalist	903S	42-Hanna	ATCO	86
7L116 [910S-959S]	138	Excel	910S	42-Hanna	ATCO	92
7L116 [910S-959S]	138	Lanfine	959S	42-Hanna	ATCO	92
7L117 [706S-710S]	138	Irish Creek	706S	13-Lloydminster	ATCO	107
7L117 [706S-710S]	138	Vermilion	710S	13-Lloydminster	ATCO	108
7L127 [774S-932S]	138	Monitor	774S	42-Hanna	ATCO	176
7L127 [774S-932S]	138	Pemukan	932S	42-Hanna	ATCO	187
7L128 [802S-7L128]	138	Michichi Creek	802S	42-Hanna	ATCO	20
7L128 [963S-7L128]	138	Coyote Lake	963S	42-Hanna	ATCO	14
7L129 [526S-7LA129]	138	Buffalo Creek	526S	32-Wainwright	AltaLink	117
7L129 [7LA129-710S]	138	Vermilion	710S	32-Wainwright	AltaLink	100
7L130 [710S-705S]	138	Kitscoty	705S	13-Lloydminster	ATCO	143
7L130 [710S-705S]	138	Vermilion	710S	13-Lloydminster	ATCO	113
7L132 [767S-959S]	138	Oyen	767S	42-Hanna	ATCO	12
7L132 [767S-959S]	138	Lanfine	959S	42-Hanna	ATCO	112
7L137 [770S-768S]	138	Rowley	768S	42-Hanna	ATCO	23
7L137 [770S-768S]	138	Three Hills	770S	42-Hanna	ATCO	21
7L139 [7LA139-707S]	138	St. Paul	707S	56-Vegreville	ATCO	28
7L139 [7LA139-819S]	138	Whitbylake	819S	56-Vegreville	ATCO	7

Line Name	Voltage (kV)	Substation Name	Facility Code	Planning Area	TFO	Capability (MW)[3]
7L14 [705S-751S]	138	Kitscoty	705S	13-Lloydminster	ATCO	142
7L14 [705S-751S]	138	Hill	751S	13-Lloydminster	ATCO	135
7L143 [766S-769S]	138	Nevis	766S	42-Hanna	ATCO	129
7L143 [766S-769S]	138	Stettler	769S	42-Hanna	ATCO	142
7L153 [609S-804S]	138	Wheatland	609S	43-Sheerness	ATCO	18
7L153 [609S-804S]	138	Wintering Hills	804S	43-Sheerness	ATCO	18
7L159 [7LA16-948S]	138	Heatburg	948S	42-Hanna	ATCO	20
7L159 [7LA16-770S]	138	Three Hills	770S	42-Hanna	ATCO	21
7L16 [766S-948S]	138	Nevis	766S	42-Hanna	ATCO	24
7L16 [766S-948S]	138	Heatburg	948S	42-Hanna	ATCO	27
7L171 [802S-804S]	138	Michichi Creek	802S	42-Hanna	ATCO	14
7L171 [802S-804S]	138	Wintering Hills	804S	42-Hanna	ATCO	18
7L224 [650S-774S]	138	Hansman Lake	650S	37-Provost	AltaLink	60
7L224 [650S-774S]	138	Monitor	774S	37-Provost	AltaLink	136
7L238 [601S-959S]	138	Buffalo Bird	601S	42-Hanna	ATCO	94
7L238 [601S-959S]	138	Lanfine	959S	42-Hanna	ATCO	94
7L25 [768S-802S]	138	Rowley	768S	42-Hanna	ATCO	23
7L25 [768S-802S]	138	Michichi Creek	802S	42-Hanna	ATCO	20
7L42 [751S-716S]	138	Lloydminster	716S	13-Lloydminster	ATCO	146
7L42 [751S-716S]	138	Hill	751S	13-Lloydminster	ATCO	140

Line Name	Voltage (kV)	Substation Name	Facility Code	Planning Area	TFO	Capability (MW)[3]
7L50 [526S-474L]	138	Buffalo Creek	526S	32-Wainwright	AltaLink	74
7L50 [474L-757S]	138	Battle River	757S	32-Wainwright	AltaLink	108
7L53 [7LA53-706S]	138	Irish Creek	706S	28-Cold Lake	ATCO	114
7L53 [7LA53-700S]	138	Bonnyville	700S	28-Cold Lake	ATCO	70
7L65 [7LA65-709S]	138	Vegreville	709S	56-Vegreville	ATCO	3
7L65 [7LA65-710S]	138	Vermilion	710S	56-Vegreville	ATCO	2
7L70 [700S-707S]	138	St. Paul	707S	28-Cold Lake	ATCO	28
7L70 [700S-707S]	138	Bonnyville	700S	28-Cold Lake	ATCO	114
7L701 [7LA701-757S]	138	Battle River	757S	36-Alliance/Battle River	ATCO	141
7L749 [7LB749-716S]	138	Lloydminster	716S	13-Lloydminster	ATCO	100
7L760 [7LC760-767S]	138	Oyen	767S	42-Hanna	ATCO	12
7L760 [7LC760-1004S]	138	Bullseye	1004S	42-Hanna	ATCO	8
7L77 [395S-709S]	138	North Holden	395S	56-Vegreville	AltaLink	5
7L77 [395S-709S]	138	Vegreville	709S	56-Vegreville	AltaLink	3
7L79 [771S-932S]	138	Veteran	771S	42-Hanna	ATCO	109
7L79 [771S-892S]	138	Veteran	771S	42-Hanna	ATCO	103
7L79 [771S-932S]	138	Pemukan	932S	42-Hanna	ATCO	107
7L79 [771S-892S]	138	Ribstone Creek	892S	42-Hanna	ATCO	104
7L85 [803S-2072S]	138	Bullpound	803S	43-Sheerness	ATCO	25
7L85 [803S-801S]	138	Anderson	801S	43-Sheerness	ATCO	35
7L85 [804S-2072S]	138	Wintering Hills	804S	43-Sheerness	ATCO	18

Line Name	Voltage (kV)	Substation Name	Facility Code	Planning Area	TFO	Capability (MW)[3]
7L85 [803S-801S]	138	Bullpound	803S	43-Sheerness	ATCO	25
7L85AL [981S-2072S]	138	Badlands	981S	43-Sheerness	ATCO	20
7L92 [777S-7LA92]	138	Vilna	777S	56-Vegreville	ATCO	6
7L92 [819S-777S]	138	Vilna	777S	56-Vegreville	ATCO	6
7L92 [7LA92-709S]	138	Vegreville	709S	56-Vegreville	ATCO	3
7L92 [819S-777S]	138	Whitbylake	819S	56-Vegreville	ATCO	7
7LA128 [7L128-572S]	138	Highland	572S	42-Hanna	AltaLink	13
7LA129 [7LA129-918S]	138	Bauer	918S	13-Lloydminster	ATCO	109
7LA159 [7LA16-114S]	138	Ghost Pine	114S	42-Hanna	ATCO	20
7LA53 [7LA53-969S]	138	Lindbergh	969S	28-Cold Lake	ATCO	78
7LA65 [708S-7LA65]	138	Grizzly Bear	708S	13-Lloydminster	ATCO	1
7LA701 [7LA701-764S]	138	Heisler	764S	36-Alliance/Battle River	ATCO	126
7LA760 [7LB760-914S]	138	Bindloss	914S	48-Empress	ATCO	5
7LA92 [956S-7LA92]	138	Watt Lake	956S	56-Vegreville	ATCO	4
7LB749 [7LB749-880S]	138	Briker	880S	13-Lloydminster	ATCO	103
7LB760 [7LB760-893S]	138	Cavendish	893S	48-Empress	ATCO	5
812AL [512S-812AL]	138	Hartell	512S	46-High River	AltaLink	0
812L [392S-812AL]	138	Black Diamond	392S	46-High River	AltaLink	0
812L [65S-812AL]	138	High River	65S	46-High River	AltaLink	0
813L [241S-146S]	138	Macdonald	146S	54-Lethbridge	City of Lethbridge	20

Line Name	Voltage (kV)	Substation Name	Facility Code	Planning Area	TFO	Capability (MW)[3]
813L [241S-146S]	138	Uplands	241S	54-Lethbridge	City of Lethbridge	19
814L [121S-28S]	138	Brooks	121S	47-Brooks	AltaLink	0
814L [121S-28S]	138	West Brooks	28S	47-Brooks	AltaLink	0
820AL [315S-820AL]	138	Chin Chute	315S	54-Lethbridge	AltaLink	3
820BL [820BL-967S]	138	Red Coat	967S	54-Lethbridge	AltaLink	2
820L [254S-820AL]	138	Coaldale	254S	54-Lethbridge	AltaLink	6
820L [67S-820BL]	138	Stirling	67S	54-Lethbridge	AltaLink	2
821L [158S-421S]	138	Vauxhall	158S	52-Vauxhall	AltaLink	8
821L [158S-421S]	138	Hays	421S	52-Vauxhall	AltaLink	0
823L [146S-593S]	138	Macdonald	146S	54-Lethbridge	City of Lethbridge	20
823L [146S-593S]	138	Lakeview	593S	54-Lethbridge	City of Lethbridge	19
824L [593S-618S]	138	Lakeview	593S	54-Lethbridge	City of Lethbridge	19
824L [593S-618S]	138	Riverbend	618S	54-Lethbridge	City of Lethbridge	20
827L [121S-28S]	138	Brooks	121S	47-Brooks	AltaLink	0
827L [121S-28S]	138	West Brooks	28S	47-Brooks	AltaLink	0
830L [562S-840S]	138	Cypress	562S	48-Empress	AltaLink	1
831AL [227S-831AL]	138	Cutting Lake	227S	47-Brooks	AltaLink	0
831L [339S-831AL]	138	Duchess	339S	47-Brooks	AltaLink	0
831L [121S-831AL]	138	Brooks	121S	47-Brooks	AltaLink	0
850L [678S-525S]	138	Carseland	525S	45-Strathmore/ Blackie	AltaLink	0
850L [678S-525S]	138	Okotoks	678S	45-Strathmore/ Blackie	AltaLink	0
851L [525S-253S]	138	Blackie	253S	45-Strathmore/ Blackie	AltaLink	0

Line Name	Voltage (kV)	Substation Name	Facility Code	Planning Area	TFO	Capability (MW)[3]
851L [525S-253S]	138	Carseland	525S	45-Strathmore/ Blackie	AltaLink	0
853AL [435S-853AL]	138	Bassano	435S	47-Brooks	AltaLink	0
853L [28S-853AL]	138	West Brooks	28S	47-Brooks	AltaLink	0
853L [504S-853AL]	138	Queenstown	504S	47-Brooks	AltaLink	7
863L [225S-863L]	138	Magrath	225S	55-Glenwood	AltaLink	18
863L [618S-863L]	138	Riverbend	618S	55-Glenwood	AltaLink	20
869L [204S-163S]	138	Amoco Empress	163S	48-Empress	AltaLink	4
869L [204S-163S]	138	Sandy Point	204S	48-Empress	AltaLink	4
871L [341S-163S]	138	Amoco Empress	163S	48-Empress	AltaLink	4
871L [341S-163S]	138	Sand Hills Sub	341S	48-Empress	AltaLink	4
876L [253S-179S]	138	Gleichen	179S	45-Strathmore/ Blackie	AltaLink	0
876L [253S-179S]	138	Blackie	253S	45-Strathmore/ Blackie	AltaLink	0
879AL [719S-879AL]	138	Rattlesnake Ridge	719S	04-Medicine Hat	AltaLink	3
879L [244S-879AL]	138	Bowmanton	244S	04-Medicine Hat	AltaLink	0
879L [368S-879AL]	138	Burdett	368S	04-Medicine Hat	AltaLink	2
880L [523S-321S]	138	Al Rothbauer	321S	04-Medicine Hat	AltaLink	0
880L [523S-321S]	138	Bullshead	523S	04-Medicine Hat	AltaLink	0
885L [648S-650S]	138	Metiskow	648S	37-Provost	AltaLink	297
885L [648S-650S]	138	Hansman Lake	650S	37-Provost	AltaLink	297
886L [431S-428S]	138	Namaka	428S	45-Strathmore/ Blackie	AltaLink	0

Line Name	Voltage (kV)	Substation Name	Facility Code	Planning Area	TFO	Capability (MW)[3]
886L [431S-428S]	138	Hussar	431S	45-Strathmore/ Blackie	AltaLink	0
891L [226S-863L]	138	Garden City	226S	55-Glenwood	AltaLink	18
892L [895S-244S]	138	Bowmanton	244S	04-Medicine Hat	AltaLink	0
892L [895S-244S]	138	Suffield	895S	04-Medicine Hat	AltaLink	0
893AL [112S-893AL]	138	Windy Point	112S	53-Fort Macleod	AltaLink	64
893L [806S-893L]	138	Oldman River	806S	53-Fort Macleod	AltaLink	66
893L [893AL-312S]	138	Fidler	312S	53-Fort Macleod	AltaLink	95
912L [63S-766S]	240	Nevis	766S	35-Red Deer	AltaLink	229
912L [63S-766S]	240	Red Deer	63S	35-Red Deer	AltaLink	174
923L [356S-2075S]	240	Newell	2075S	47-Brooks	AltaLink	307
923L [356S-2075S]	240	Milo	356S	47-Brooks	AltaLink	356
924L [102S-356S]	240	Milo	356S	6-Calgary	AltaLink	466
924L [102S-356S]	240	Langdon	102S	6-Calgary	AltaLink	222
927L [102S-356S]	240	Milo	356S	6-Calgary	AltaLink	466
927L [102S-356S]	240	Langdon	102S	6-Calgary	AltaLink	251
931L [132S-28S]	240	Ware Junction	132S	47-Brooks	AltaLink	300
931L [132S-28S]	240	West Brooks	28S	47-Brooks	AltaLink	293
933L/9L933 [132S-801S]	240	Ware Junction	132S	47-Brooks	AltaLink	280
933L/9L933 [132S-801S]	240	Anderson	801S	47-Brooks	AltaLink	248
934L/9L934 [132S-801S]	240	Ware Junction	132S	47-Brooks	AltaLink	229
934L/9L934 [132S-801S]	240	Anderson	801S	47-Brooks	AltaLink	248
935L [324S-356S]	240	Cassils	324S	47-Brooks	AltaLink	323

Line Name	Voltage (kV)	Substation Name	Facility Code	Planning Area	TFO	Capability (MW)[3]
935L [324S-356S]	240	Milo	356S	47-Brooks	AltaLink	365
940L [370S-120S]	240	Picture Butte	120S	54-Lethbridge	AltaLink	121
940L [370S-120S]	240	North Lethbridge	370S	54-Lethbridge	AltaLink	162
944L [132S-275S]	240	Ware Junction	132S	47-Brooks	AltaLink	300
944L [132S-275S]	240	Jenner	275S	47-Brooks	AltaLink	9
945L [275S-562S]	240	Jenner	275S	48-Empress	AltaLink	9
945L [275S-562S]	240	Cypress	562S	48-Empress	AltaLink	5
948L/9L948 [650S-863S]	240	Hansman Lake	650S	37-Provost	AltaLink	280
948L/9L948 [650S-863S]	240	Paintearth	863S	37-Provost	AltaLink	247
949L [275S-306S]	240	Jenner	275S	48-Empress	AltaLink	9
949L [275S-306S]	240	Halsbury	306S	48-Empress	AltaLink	9
950L/9L950 [132S-801S]	240	Ware Junction	132S	47-Brooks	AltaLink	230
950L/9L950 [132S-801S]	240	Anderson	801S	47-Brooks	AltaLink	248
951L [132S-275S]	240	Ware Junction	132S	47-Brooks	AltaLink	300
951L [132S-275S]	240	Jenner	275S	47-Brooks	AltaLink	9
953L/9L953 [574S-755S]	240	Nilrem	574S	32-Wainwright	AltaLink	254
953L/9L953 [574S-755S]	240	Cordel	755S	32-Wainwright	AltaLink	234
954L [648S-650S]	240	Metiskow	648S	37-Provost	AltaLink	280
954L [648S-650S]	240	Hansman Lake	650S	37-Provost	AltaLink	280
955L [59S-103S]	240	Goose Lake	103S	53-Fort Macleod	AltaLink	225
955L [59S-103S]	240	Peigan	59S	53-Fort Macleod	AltaLink	224
956L [59S-103S]	240	Goose Lake	103S	53-Fort Macleod	AltaLink	225

Line Name	Voltage (kV)	Substation Name	Facility Code	Planning Area	TFO	Capability (MW)[3]
956L [59S-103S]	240	Peigan	59S	53-Fort Macleod	AltaLink	224
964AL [964AL-1024S]	240	Granlea	1024S	04-Medicine Hat	AltaLink	0
964L [964AL-965L]	240	Murray Lake	326S	04-Medicine Hat	AltaLink	0
964L [251S-964AL]	240	Whitla	251S	04-Medicine Hat	AltaLink	0
965L [244S-965L]	240	Bowmanton	244S	04-Medicine Hat	AltaLink	0
965L [244S-965L]	240	Murray Lake	326S	04-Medicine Hat	AltaLink	0
966L/9L966 [650S-932S]	240	Hansman Lake	650S	37-Provost	AltaLink	274
966L/9L966 [650S-932S]	240	Pemukan	932S	37-Provost	AltaLink	310
967L [370S-138S]	240	Windy Flats	138S	53-Fort Macleod	AltaLink	224
967L [370S-138S]	240	North Lethbridge	370S	53-Fort Macleod	AltaLink	162
968L [370S-138S]	240	Windy Flats	138S	53-Fort Macleod	AltaLink	224
968L [370S-138S]	240	North Lethbridge	370S	53-Fort Macleod	AltaLink	162
983L [264S-251S]	240	Whitla	251S	04-Medicine Hat	AltaLink	0
983L [264S-251S]	240	Elkwater	264S	04-Medicine Hat	AltaLink	0
994L [103S-312S]	240	Goose Lake	103S	53-Fort Macleod	AltaLink	225
994L [103S-312S]	240	Fidler	312S	53-Fort Macleod	AltaLink	226
9L100 [801S-807S]	240	Anderson	801S	43-Sheerness	ATCO	75
9L100 [801S-807S]	240	Sheerness	807S	43-Sheerness	ATCO	75
9L16 [755S-9L16]	240	Cordel	755S	36-Alliance/Battle River	ATCO	104
9L16 [972S-9L16]	240	Tinchebray	972S	36-Alliance/Battle River	ATCO	110

Line Name	Voltage (kV)	Substation Name	Facility Code	Planning Area	TFO	Capability (MW)[3]
9L20 [766S-755S]	240	Cordel	755S	36-Alliance/Battle River	ATCO	234
9L20 [766S-755S]	240	Nevis	766S	36-Alliance/Battle River	ATCO	160
9L24 [959S-946S]	240	Oakland	946S	43-Sheerness	ATCO	242
9L24 [959S-946S]	240	Lanfine	959S	43-Sheerness	ATCO	248
9L27 [863S-755S]	240	Cordel	755S	36-Alliance/Battle River	ATCO	234
9L27 [863S-755S]	240	Paintearth	863S	36-Alliance/Battle River	ATCO	247
9L29 [946S-963S]	240	Oakland	946S	43-Sheerness	ATCO	242
9L29 [946S-963S]	240	Coyote Lake	963S	43-Sheerness	ATCO	197
9L46 [9LA46-932S]	240	Pemukan	932S	42-Hanna	ATCO	169
9L46 [9LA46-959S]	240	Lanfine	959S	42-Hanna	ATCO	169
9L46AL [363S-9LA46]	240	Sedalia	363S	42-Hanna	ATCO	169
9L59 [801S-9L59]	240	Anderson	801S	43-Sheerness	ATCO	248
9L59 [972S-9L59]	240	Tinchebray	972S	43-Sheerness	ATCO	110
9L59AL [1045S-9L59]	240	Garden Plain	1045S	42-Hanna	ATCO	167
9L70 [946S-801S]	240	Anderson	801S	43-Sheerness	ATCO	248
9L70 [946S-801S]	240	Oakland	946S	43-Sheerness	ATCO	242
9L79 [757S-755S]	240	Cordel	755S	36-Alliance/Battle River	ATCO	110
9L79 [757S-755S]	240	Battle River	757S	36-Alliance/Battle River	ATCO	110

Line Name	Voltage (kV)	Substation Name	Facility Code	Planning Area	TFO	Capability (MW)[3]
9L80 [757S-755S]	240	Cordel	755S	36-Alliance/Battle River	ATCO	234
9L80 [757S-755S]	240	Battle River	757S	36-Alliance/Battle River	ATCO	234
9L93 [9LA93-615S]	240	Halkirk	615S	42-Hanna	ATCO	62
9L93 [9LA93-972S]	240	Tinchebray	972S	42-Hanna	ATCO	62
9L97 [946S-801S]	240	Anderson	801S	43-Sheerness	ATCO	248
9L97 [946S-801S]	240	Oakland	946S	43-Sheerness	ATCO	242
9L99 [807S-801S]	240	Anderson	801S	43-Sheerness	ATCO	66
9L99 [807S-801S]	240	Sheerness	807S	43-Sheerness	ATCO	65
9LA16 [620S-9L16]	240	Goldeye	620S	36-Alliance/Battle River	ATCO	109
9LA93 [9LA93-973S]	240	Lanes Lake	973S	42-Hanna	ATCO	62
CHD-1 [TAYLOR-225S]	69	Magrath	225S	55-Glenwood	AltaLink	15
CHD-1 [TAYLOR-225S]	69	Taylor Hydro Plant		55-Glenwood	AltaLink	15
PCES01L [CAVALIER-428S]	138	Namaka	428S	45-Strathmore/Blackie	AltaLink	0
PCES01L [CAVALIER-428S]	138	Cavalier		45-Strathmore/Blackie	AltaLink	0

Attachment C: Generation Assets Energized in 2024

Asset	Maximum Capability Change (MW)[4]	Area	Region
Benalto 1 (VBN1)	5	35-Red Deer	Central
Big Sky Solar (ACD1)	140	48-Empress	South
Briker 1 (VBR1)	5	13-Lloydminster	Central
Buffalo Plains (BPW1)	466	49-Stavely	South
Forty Mile Bow Island (FRM1)	266	4-Medicine Hat	South
Forty Mile Granlea (FMG1)	20	4-Medicine Hat	South
Fox Coulee Solar (FCS1)	80	42-Hanna	Central
Genesee Repower 1 (GNR1)	66	40-Wabamun	Edmonton
Genesee Repower 2 (GNR2)	66	40-Wabamun	Edmonton
Halkirk 2 (HAL2)	122	36-Alliance/Battle River	Central
Keephills (KH3)	3	40-Wabamun	Edmonton
Kenilworth 1 (VKW1)	5	13-Lloydminster	Central
Lethbridge Solar (CLD1)	9	54-Lethbridge	South
Netook 1 (VNT1)	5	39-Didsbury	Central
Northern Valley 1 (VNV1)	5	13-Lloydminster	Central
Suncor Base Plant (SCR1)	856	25-Fort McMurray	Northeast
Wapiti Power Plant (WPT1)	30	20-Grande Prairie	Northwest
Wild Rose (WIR1)	192	4-Medicine Hat	South
Winnifred Wind (WIN1)	136	4-Medicine Hat	South
	Total: 2477		

[4] Some assets had maximum capability (MC) changes in 2024. The incremental MC values are reported for these assets.