

## Introduction

The following report provides information on the long-term adequacy of the Alberta electric energy market. The report contains metrics that include tables on generation projects under development and generation retirements, an annual reserve margin with a five-year forecast period at the time of system peak, a two-year daily supply cushion, and a two-year probabilistic assessment of the Alberta Internal Load (AIL). The Long-Term Adequacy (LTA) Metrics provide an assessment and information that can be used to facilitate further assessments of long-term adequacy. This report is updated quarterly in February, May, August, and November. Inquiries on the report can be made at [forecast@aeso.ca](mailto:forecast@aeso.ca).

## Summary of Changes since Previous Report

### New Generation and Retirements Metric

#### *Projects completed and removed from list:*

- Paintearth Wind Power
- Capstone Infrastructure Buffalo Atlee Cluster 1 WAGF
- Solar Krafte Utilities Spring Coulee 385S Solar DG
- Capstone Infrastructure Buffalo Atlee Cluster 3 WAGF DER
- Concord Drumheller Michichi DER Solar
- Capstone Infrastructure Buffalo Atlee Cluster 2
- BluEarth Wheatcrest MPC Solar
- Sollair Solar
- Capstone Infrastructure Atlee Cluster 4 DER Wind
- NuVista Energy Ltd Poplar Hill 790S DER Gas
- Enfinite LP Goodfare 815S DER Battery
- Enfinite LP Wapiti 823S DER Battery
- TransAlta Keephills 320P Modification

#### *Generation Projects moved to “Active Construction”:*

- ENGIE Buffalo Trail North Wind
- Solar Krafte Vauxhall
- FortisAlberta Metiskow 648S DER Solar
- ATCO Anderson 801S DER Solar
- EDTI Edmonton 3 H2 Plant Cogen
- Fortis Buford 538S DER Solar
- COL Chinook 181S DER Solar
- Fortis Duchess 339S DER Solar Battery
- ATCO Bullpound 803S DER Solar
- Fortis Aura Provost DER Solar
- Forty Mile Wind Phase 2
- Sundre 575S DER Solar
- Taber Solar

- Rimbey 297S DER Gas
- Georgetown Solar

***Generation projects moved to “Regulatory Approval”:***

- Pembina Gas Kaybob South 3 Cogen

***Generation projects that have been added to “Announced, Applied for Alberta Electric System Operator Interconnection, and/or Applied for Regulatory Approval”:***

- Travers Battery
- Raymond Reservoir Battery

***Generation projects that have been added to on hold status:***

***Generation projects that have been cancelled:***

- NextEra Red Deer Battery Energy Storage System
- Ghost Pine Battery Energy Storage System
- Archer Piikani Solar
- Glenridge Wind
- RealPart Calgary Area Solar
- Chiniki Solar
- Four Rivers Wind
- Northland Bow City MPC Solar
- Quill Rocky Mountain Gas
- FortisAlberta Acheson 305S DER Solar
- ENGIE Buffalo Trail South MPC Wind
- Sunset Solar
- ATCO Bridge Creek 798S DER Gas
- FortisAlberta Burdett 368S DER Solar Battery Storage
- Pembina Duvernay Cogen
- Fortis Taber 83S DER Solar 2
- TransAlta Sundance Unit 5 Gas
- ATCO Updike 886S DER Gas
- ATCO Ksituan River 754S DER Gas
- BluEarth Bindloss MPC Solar Battery
- Fortis West Brooks 28S DER Solar
- Fortis Bullshead 523S DER Solar
- The Rock MPC Solar
- SET1 Gas
- Plains Solar Battery

**Other changes to generation projects:**

Project	Change
Pinnacle 1 & 2 MPC Gas	New ISD of Jun-2025 from Mar-2025
Cypress North DER Solar	New ISD of Jan-2027 from Dec-2025
Alderson Solar & Wind	New ISD of Jul-2025 from Jun-2025
Kersey Solar Battery	New ISD of Aug-2027 from May-2026
South Bend Solar Battery	New ISD of Oct-2025 from Nov-2025
Sunland Solar Battery	New ISD of Oct-2025 from Nov-2025
Lethbridge Three Solar	New ISD of Jul-2026 from May-2026
Prairie Solar	New ISD of Sep-2027 from Jun-2027
Irish Creek 706S DER Wind	New ISD of Mar-2026 from Feb-2026
Vegreville 709S DER Battery	New ISD of Oct-2025 from Sep-2025
UK TC II MPC Solar	New ISD of Sep-2026 from Dec-2026
Kitscoty Wind	New ISD of Aug-2028 from Jul-2028
Craig Lake Wind	New ISD of Aug-2026 from Jul-2026
Grassland MPC Solar Battery	New ISD of May-2028 from Aug-2028
Innisfree MPC Solar Battery	New ISD of May-2028 from Aug-2028
Hays 421S DER Solar	New ISD of Jan-2025 from Feb-2025
Proteus Solar 2 Battery	New ISD of Jun-2026 from Apr-2025
Devon 14S DER Solar	New ISD of Nov-2025 from Dec-2025
Silver Creek Solar	New ISD of Aug-2025 from Jul-2025
Blackmud 155S DER Solar	New ISD of Nov-2025 from Dec-2025
Leduc 325S DER Solar	New ISD of Nov-2025 from Dec-2025
Milo Solar	New ISD of Apr-2028 from Jun-2028

Vauxhall Solar	New ISD of Apr-2028 from Mar-2028
Nevis Solar	New ISD of Apr-2028 from Jun-2028
Piikani Wind	New ISD of Jul-2026 from Dec-2026
Drywood Gas	New ISD of Nov-2025 from Dec-2025
Torlea Flats Wind	New ISD of Dec-2027 from Oct-2027
Plains Empress Cogen	New ISD of Mar-2027 from Apr-2026
Vilna 777S DER Solar Battery	New ISD of Jul-2025 from Sep-2025
Vauxhall Battery	New ISD of Apr-2028 from Jun-2028
Coronation 773S DER Solar Battery	New ISD of Jul-2025 from Sep-2025
Atacama MPC Solar Battery	New ISD of Dec-2025 from Jun-2026
Edgerton Wind	New ISD of Apr-2028 from Jun-2028
Hansman Lake Wind	New ISD of Apr-2028 from Jun-2028
Prairie Lights Power Gas	New ISD of Feb-2027 from Jan-2027
Cordel Wind	New ISD of Apr-2028 from Jun-2028
Milo Wind	New ISD of Apr-2028 from Jan-2028
Wild Rose 2 Wind Farm	New ISD of Apr-2024 from Sep-2024
Cascade Combined Cycle	New ISD of Apr-2024 from Mar-2024
Cascade Combined Cycle	New ISD of Apr-2024 from Mar-2024
ENMAX FMC Change	New ISD of Oct-2025 from Apr-2024
FortisAlberta Bassano 435S DER Solar	New ISD of Nov-2024 from Jun-2024
Grand Prairie MPC Gas	New ISD of Jun-2026 from Jun-2024
Enterprise MPC Solar	New ISD of Nov-2024 from Jun-2024
Forty Mile Granlea Solar Phase 2	New ISD of Jul-2025 from Jun-2025
ENMAX FMC DER Cogen	New ISD of Oct-2025 from Apr-2024

CP Genesee Unit 6 Gas	New ISD of Feb-2024 from Jan-2024
CP Genesee Unit 1 Repower ST	New ISD of Jul-2024 from Apr-2024
CP Genesee Unit 7 Gas	New ISD of May-2024 from Apr-2024
CP Genesee 2 Repower ST	New ISD of Sep-2024 from Jun-2024
ATCO Oyen 767S DER Solar	New ISD of Dec-2024 from Apr-2024
Fortis Tilley 498S DER Solar	New ISD of May-2024 from Apr-2024
Aira Solar	New ISD of May-2025 from Dec-2024
Phoenix MPC Solar	New ISD of Mar-2025 from Dec-2024
COL Chinook 181S DER Solar	New ISD of Sep-2024 from May-2024
TA Alberta Hydro WaterCharger Battery	New ISD of Oct-2024 from Dec-2023
CP Rolling Hills Wind	New ISD of Jun-2026 from Jun-2025
Rimbey 297S DER Gas	New ISD of Aug-2024 from Mar-2024
Old Elm Wind	New ISD of Oct-2025 from May-2025
Luna MPC Solar Battery	New ISD of May-2026 from Dec-2024
TransAlta Riplinger MPC Wind	New ISD of Mar-2026 from Jul-2024
TransAlta Willow Creek 1 MPC Wind	New ISD of Feb-2027 from Sep-2027
TransAlta Willow Creek 2 MPC Wind	New ISD of Feb-2027 from Sep-2027
Capital Power Aldersyde MPC Solar	New ISD of Oct-2025 from May-2025
Shell SR Scotford Solar	New ISD of Jun-2024 from Dec-2023
Monarch 492S DER Battery	New ISD of Feb-2024 from Nov-2023
Vulcan 255S DER Battery	New ISD of Mar-2024 from Dec-2023
Coaldale 254S DER Battery	New ISD of Mar-2024 from Nov-2023
Fortis Buffalo Atlee Cluster 1 WAGF	New ISD of Nov-2023 from Nov-2024
Fortis Buffalo Atlee Cluster 3 WAGF DER	New ISD of Nov-2023 from Nov-2024

ATCO Michichi DER Solar	New ISD of Dec-2023 from Nov-2023
Fortis Buffalo Atlee Cluster 4 DER Wind	New ISD of Nov-2023 from Nov-2024
ATCO Goodfare 815S DER Battery	New ISD of Dec-2023 from Nov-2023
Forty Mile Granlea Modification	New ISD of Mar-2024 from Dec-2023

### Reserve Margin Metric

The reserve margin has been updated to reflect changes to the project list and the Preliminary 2023 Long-Term Outlook system load forecast.

### Supply Cushion Metric

The forecast supply cushion has been updated to reflect the new time period and updated using the Preliminary 2023 Long-Term Outlook Alberta Internal Load forecast.

### Two-Year Probability of Supply Adequacy Shortfall Metric

New values for the metric have been calculated with Total Energy Not Served equaling 0.02 MWh. This value is below the 2,050 MWh threshold. The forecast Probability of Supply Adequacy Shortfall has been updated to reflect the new time period and updated using the Preliminary 2023 Long-Term Outlook Alberta Internal Load forecast.

### New Generation Projects and Retirements Metric

The New Generation Projects and Retirements Metric is a summary of generation at various stages of development in Alberta and is shown in Tables 1 to 5 below. In Alberta’s deregulated electricity market competitive forces determine the location, magnitude, and timing of new generation additions. Information on prospective generation additions and retirements provides context for the future market in Alberta. The information is drawn from a variety of public sources and includes new generation, changes to existing generation and the retirement of generating units. Changes in project in-service dates (ISDs) and regulatory stages occur as projects move forward and/or market conditions change. Current information on connection project “ISDs” can be found in the [Alberta Electric System Operator Project List](#) and information on power plant applications can be found at the [Alberta Utilities Commission](#) website.

**Table 1: Generation Projects under Construction**

Note: The inclusion list parameters remain aligned with the pre-cluster definitions (i.e., Effective System Access Service Agreement).

Sponsor(s)	Project Name	Fuel	Unit Capacity	ISD
Capital Power	CP Genesee Unit 6 Gas	Gas	411	Feb-24 <sup>^</sup>
Suncor	Forty Mile Granlea Modification	Wind	25	Mar-24
Capstone	Wild Rose 2 Wind Farm	Wind	192	Apr-24
Kineticor	Cascade Combined Cycle	Gas	450	Apr-24*
Kineticor	Cascade Combined Cycle	Gas	450	Apr-24*
Fortis	Fortis Tilley 498S DER Solar	Solar	23.6	May-24
Fortis	Fortis Tilley 498S DER Solar	Storage	8	May-24
Capital Power	CP Genesee Unit 7 Gas	Gas	411	May-24 <sup>^</sup>
Voltarix	Fortis Moon Lake DER Solar	Solar	18.4	May-24
Voltarix	Fortis Stony Plain 434S DER Solar	Solar	18.4	May-24
Solar Krafte	Solar Krafte Vauxhall	Solar	60	Jun-24
Suncor	Suncor Base Plant Cogen	Cogen	403	Jun-24 <sup>^</sup>
Concord	Fortis Vulcan 255S DER Solar	Solar	15	Jun-24
ATCO	ATCO Anderson 801S DER Solar	Solar	13	Jun-24
ATCO	ATCO Bullpound 803S DER Solar	Solar	14.3	Jun-24
CNRL	CNRL Primrose East 641S Gas	Gas	32	Jun-24
Shell	Shell SR Scotford Solar	Solar	58	Jun-24

Suncor	Suncor Base Plant Cogen	Cogen	403	Jul-24 <sup>^</sup>
Buffalo Plains wind farm	Buffalo Plains MPC Wind	Wind	466	Jul-24
RESC	RESC Forty Mile MPC Wind	Wind	266	Jul-24
Capital Power	CP Genesee Unit 1 Repower ST	Gas	55**	Jul-24
Journey Energy	Rimbey 297S DER Gas	Gas	15.1	Aug-24
RESC	RESC Big Sky Solar	Solar	140	Aug-24
ATCO	ATCO Ethel Lake 717S DER Wasteheat	Gas	19	Sep-24
Acestes	Fortis Duchess 339S DER Solar Battery	Solar	19.8	Sep-24
Acestes	Fortis Duchess 339S DER Solar Battery	Storage	6.7	Sep-24
Capital Power	CP Genesee 2 Repower ST	Gas	55**	Sep-24
COL	COL Chinook 181S DER Solar	Solar	8.75	Sep-24
Enerfin	Enerfin Winnifred MPC Wind	Wind	90	Oct-24
Enerfin	Enerfin Winnifred Wind Modification	Wind	60	Oct-24
Enmax	Taber Solar	Solar	45	Oct-24
Fortis	FortisAlberta Gleichen DG Solar	Solar	13.3	Oct-24
PACE Canada LP	Sundre 575S DER Solar	Solar	14.6	Oct-24
EDTI	EDTI Edmonton 3 H2 Plant Cogen	Cogen	100	Nov-24
Aura Power	Fortis Aura Provost DER Solar	Solar	22.5	Nov-24
Fortis	FortisAlberta Bassano 435S DER Solar	Solar	10	Nov-24
RESC	Enterprise MPC Solar	Solar	65	Nov-24
Voltarix	Fortis Buford 538S DER Solar	Solar	18.4	Nov-24
Solar Krafte	Solar Krafte Brooks (RWE Beargrass)	Solar	360	Dec-24
Dunmore Solar Inc.	Dunmore Solar	Solar	216	Dec-24
Greengate	Northland Power Jurassic MPC Solar	Solar	220	Dec-24
Greengate	Northland Power Jurassic MPC Solar	Storage	80	Dec-24
ATCO	ATCO Oyen 767S DER Solar	Solar	15	Dec-24
Fortis	FortisAlberta Metiskow 648S DER Solar	Solar	22.5	Dec-24
Fortis	FortisAlberta Metiskow 648S DER Solar	Storage	22.5	Dec-24
Fortis	FortisAlberta Killarney Lake 267S DER	Solar	22.5	Jan-25
Fortis	FortisAlberta Killarney Lake 267S DER	Storage	22.5	Jan-25
Georgetown Solar Inc.	Georgetown Solar	Solar	230	Apr-25



Suncor	Forty Mile Granlea Solar Phase 2	Solar	220	Jul-25
RESC	Forty Mile Wind Phase 2	Wind	134	Sep-25
ENMAX	ENMAX FMC Change	Cogen	18	Oct-25
ENMAX	ENMAX FMC DER Cogen	Cogen	7	Oct-25
ENGIE	ENGIE Buffalo Trail North Wind	Wind	200	Jan-28
<b>Total (MW)</b>			<b>5,794</b>	

*\*Expected Commissioning Date*

*\*\*Capped at 55 MW to comply with MSSC value*

*^ISD for calculating supply cushion and PSAS metrics considered 2 months from the mentioned ISD to account for commissioning*

**Table 2: Generation Projects with Regulatory Approval**

Sponsor(s)	Project Name	Fuel	Unit Capacity	ISD
Concord	Monarch 492S DER Battery	Storage	21	Feb-24
Concord	Coaldale 254S DER Battery	Storage	21	Mar-24
Concord	Vulcan 255S DER Battery	Storage	21	Mar-24
Capital Power	Capital Power Halkirk 2 Wind	Wind	150	Jul-24
Ascent	Sunnynook Solar Battery	Solar	250	Aug-24
Ascent	Sunnynook Solar Battery	Storage	100	Aug-24
TransAlta	TransAlta Tempest MPC Wind	Wind	100	Sep-24
Kiwetinohek	Kiwetinohek Homestead MPC Solar	Solar	400	Nov-24
Kiwetinohek	Kiwetinohek Opal Gas	Gas	101	Dec-24
Greengate	Luna MPC Solar Battery	Solar	465	Dec-24
RESC	RESC Nova MPC Solar	Solar	150	Jan-25
EDF	EDF Bull Trail Wind	Wind	300	May-25
Greencells	Greencells Estuary Solar	Solar	200	Jun-25
Future Energy Park	SS-37 DER Gas	Gas	29.5	Jun-25
Pteragen	Pteragen Peace Butte Wind	Wind	122	Aug-25
OEWFL	Old Elm Wind	Wind	60	Oct-25
Greengate	Luna 2 MPC Solar Battery	Solar	465	Dec-25
Greengate	Luna 2 MPC Solar Battery	Storage	80	Dec-25
Turning Point Gen	TPG Canyon Creek PHES	Storage	75	May-26
Greengate	Luna MPC Solar Battery	Storage	80	May-26

Prairie Lights Power	Grand Prairie MPC Gas	Gas	400	Jun-26
Newbit Technology Inc.	Natural Gas-Fired Power Plant in Newell	Gas	9	TBD
Fire Technology Corp	9.975-Megawatt Natural Gas Engine	Gas	9.5	TBD
Saturn Power Inc.	Springbrook Solar Project	Solar	20	TBD
NU-E	Lethbridge 1 Solar Project	Solar	9	TBD
Concord	Drumheller Solar and Battery Storage	Solar	13.5	TBD
Renewable Energy	McLaughlin Wind Power Plant	Wind	46.2	TBD
2289994 Alberta Inc.	SunAlta Solar PV1 Power Plant	Solar	9.3	TBD
Tidewater Midstream	Brazeau Cogeneration	Gas	16.5	TBD
Journey Energy	Gilby Thermal power plant	Gas	15.5	TBD
Versorium	Versorium Gas	Gas	5.044	TBD
WCSB Blockchain	Ram River Isolated Power Plant	Gas	84	TBD
Big Marble Farm	Big Marble Farms Power Plant Backup	Gas	12	TBD
IPC Canada Ltd.	Blackrod Cogeneration Power Plant	Gas	33.06	TBD
CT Mining Inc.	CT Mining Gas	Gas	7	TBD
Northstone Power Corp.	Elmworth Generation Station	Gas	9	TBD
Rustad Energy Ltd.	Rocky 5 Bitcoin Mining Power Plant	Gas	60	TBD
Rustad Energy Ltd.	Rocky Power Plant and Rocky 2 Power	Gas	7.6	TBD
Alberta Pacific Forest	Al-Pac Power Plant	Biomass	17	TBD
Dow Chemical Canada	Fort Saskatchewan Path2Zero Power	Gas	140	TBD
CSV Midstream Solutions C	Albright Power Plant	Cogen	7	TBD
Athill Tech Solution Ltd.	9.97-Megawatt Natural Gas-Fired Power	Other	9.97	TBD
<b>Total (MW)</b>			<b>4,134</b>	

**Table 3: Generation Projects that have been Announced or Applied for Alberta Electric System Operator Connection, and/or Applied for Regulatory Approval**

Sponsor(s)	Project Name	Fuel	Unit Capacity	ISD
Aura	Aura Peace Butte Solar Battery	Solar	230	Apr-24

Aura	Aura Peace Butte Solar Battery	Storage	100	Apr-24
PACE Canada LP	Harvest Sky MPC Solar	Solar	25	Jun-24
PACE Canada	Mannix MPC Solar Battery	Solar	59	Jun-24
PACE Canada	Mannix MPC Solar Battery	Storage	34	Jun-24
Pace Canada	Harvest Sky MPC Solar Battery	Solar	40	Jun-24
Pace Canada	Harvest Sky MPC Solar Battery	Storage	14	Jun-24
BluEarth	BluEarth Prairie Yarrow MPC Wind	Wind	222	Sep-24
Capital Power	Capital Power Whitla MPC Solar	Solar	88	Sep-24
Enfinite	Enfinite Bowmanton MPC Battery	Storage	450	Sep-24
Enfinite	Enfinite Foothills MPC Battery	Storage	400	Sep-24
Cache	Rising Sun Solar	Solar	125	Sep-24
Capital Power	Clover Bar #2 Modification	Gas	9	Oct-24
Capital Power	Clover Bar #3 Modification	Gas	9	Oct-24
TA	TA Alberta Hydro WaterCharger Battery	Storage	180	Oct-24
Kiwetinohk	Kiwetinohk Granum MPC Solar	Solar	400	Nov-24
Spirit Pine	Lone Pine MPC Wind	Wind	173	Dec-24
HEP Energy	hep Energy Alderson MPC Solar	Solar	100	Dec-24
Journey Energy Inc.	High River 65S DER Gas	Gas	16.5	Dec-24
Solar Krafte	Kinbrook MPC Solar	Solar	450	Dec-24
TA	Sunhills Solar	Solar	130	Dec-24
IRRICAN Power Ltd.	Raymond Reservoir Battery	STS	15.4	Jan-25
PACE Canada LP	Brooks 121S DER Solar Battery	Solar	26	Jan-25
PACE Canada LP	Brooks 121S DER Solar Battery	Storage	16	Jan-25
PACE Canada LP	Tucuman 478S DER Solar Battery	Solar	14.8	Jan-25
PACE Canada LP	Tucuman 478S DER Solar Battery	Storage	7	Jan-25
PACE Canada LP	Sedgewick 137S DER Solar Battery	Solar	22	Jan-25
PACE Canada LP	Sedgewick 137S DER Solar Battery	Storage	6	Jan-25
Universal Kraft	UK Solar East	Solar	400	Jan-25
Proteus Alberta	Hays 421S DER Solar	Solar	45	Jan-25
ATCO	ENMAX SS-24 DER Battery	Storage	21.5	Feb-25
ATCO Power (2010)	Oldman River Battery	Storage	23.1	Feb-25

Dolcy	Dolcy Solar Battery	Solar	250	Feb-25
Dolcy	Dolcy Solar Battery	Storage	100	Feb-25
Teric Power Ltd.	Sturgeon 734S DER Battery	Storage	23	Feb-25
TERIC Power Ltd.	Saddle Hills 865S DER Battery	Storage	33	Feb-25
Pembina Empress	Empress Battery	Storage	23	Feb-25
ESI	Eastervale Solar Battery	Solar	300	Mar-25
ESI	Eastervale Solar Battery	Storage	200	Mar-25
Pembina Gas	Kaybob South 3 Cogen	Cogen	33	Mar-25
BER Hand Hills	Hand Hills Battery	Storage	10	Mar-25
Elemental Energy	High River 65S DER Solar	Solar	18.5	Mar-25
Phoenix	Phoenix MPC Solar	Solar	299	Mar-25
Lethbridge Two	Riverbend 618S DER Solar	Solar	17	Apr-25
Pengrowth	Cold Lake Area Energy Centre	Cogen	100	Apr-25
Georgetown	Georgetown Battery Addition	Storage	100	Apr-25
Aira	Aira Solar	Solar	450	May-25
TransAlta	Pinnacle 1 & 2 MPC Gas	Gas	44.6	Jun-25
ABO Wind Canada	Stettler 769S DER Solar Battery	Solar	25	Jun-25
ABO Wind Canada	Stettler 769S DER Solar Battery	Storage	16	Jun-25
Enerfin	Big Rock Solar Battery	Solar	100	Jun-25
Enerfin	Big Rock Solar Battery	Storage	40	Jun-25
Grounded Technical	Keystone 384S DER Gas	Gas	21.5	Jul-25
Crescent Point	Fox Creek 741S DER Solar	Solar	9.5	Jul-25
Abacus Power Ltd.	Three Hills 770S DER Solar	Solar	18	Jul-25
Obton Solar Canada	Vilna 777S DER Solar Battery	Solar	31.1	Jul-25
Obton Solar Canada	Vilna 777S DER Solar Battery	Storage	30	Jul-25
Obton Solar Canada	Coronation 773S DER Solar Battery	Solar	19.6	Jul-25
Obton Solar Canada	Coronation 773S DER Solar Battery	Storage	19.6	Jul-25
Kiwetinohk	Kiwetinohk Black Bear Gas	Gas	450	Jul-25
Frontline	Kneehill Solar	Solar	450	Jul-25
Neoen Renewables	Jumbo Solar Battery	Solar	218	Jul-25
Neoen Renewables	Jumbo Solar Battery	Storage	75	Jul-25

Neoen Renewables	Sweetgrass MPC Solar Battery	Solar	315	Jul-25
Neoen Renewables	Sweetgrass MPC Solar Battery	Storage	150	Jul-25
STANTEC	Alderson Solar & Wind	Solar	450	Jul-25
STANTEC	Alderson Solar & Wind	Wind	450	Jul-25
TransAlta	TransAlta Red Rock MPC Wind	Wind	100	Jul-25
EDP Renewables	edp Renewables Blue Bridge Solar	Solar	150	Aug-25
Kiwetinohek	Kiwetinohek Flipi MPC Gas	Gas	444	Aug-25
Axium Infrastructure	Travers Battery	Storage	99	Aug-25
Acestes Power ULC	East Camrose 285S DER Solar Battery	Solar	23.3	Aug-25
Acestes Power ULC	East Camrose 285S DER Solar Battery	Storage	7.8	Aug-25
Acestes Power ULC	Ponoka 331S DER Solar Battery	Solar	23.2	Aug-25
Acestes Power ULC	Ponoka 331S DER Solar Battery	Storage	7.8	Aug-25
Acestes Power ULC	Westlock 438S DER Solar Battery	Solar	24	Aug-25
Acestes Power ULC	Westlock 438S DER Solar Battery	Storage	8.1	Aug-25
Oqin Solar Canada	Silver Creek Solar	Solar	96	Aug-25
2365921 Alberta Ltd.	Coaldale 254S DER Solar & Wind	Wind	12.3	Sep-25
Greenwood	Red Deer 63S DER Solar	Solar	19	Sep-25
NPS Industrial	Eyremore MPC Gas	Gas	168	Sep-25
Spruce Grove 1	Acheson 305S DER Solar	Solar	23	Sep-25
Morinville Solar STL	Northwest Cardiff 191S DER Solar	Solar	17	Sep-25
Cardiff Solar STL	Northwest Cardiff 191S DER Solar	Solar	23	Sep-25
ENGIE	ENGIE Duchess Solar	Solar	90	Sep-25
Kiwetinohek	Little Flipi MPC Gas	Gas	120	Sep-25
PR	PR Prominence Solar	Solar	80	Sep-25
HEP Canada SPV3	Carseland 525S DER Solar	Solar	22	Sep-25
Joss Wind	Northern Lights WAGF	Wind	400	Sep-25
EER	EER Foothills MPC Solar	Solar	150	Sep-25
Aura Power	South Bend Solar Battery	Solar	280	Oct-25
Aura Power	South Bend Solar Battery	Storage	200	Oct-25
Aura Power	Sunland Solar Battery	Solar	280	Oct-25
Aura Power	Sunland Solar Battery	Storage	100	Oct-25

Warwick Gas	Vegreville 709S DER Battery	Storage	11	Oct-25
Cascade Power	Cascade Gas	Gas	32	Oct-25
ABO	Smoky River MPC Wind	Wind	160	Oct-25
Capital Power	Capital Power Aldersyde MPC Solar	Solar	200	Oct-25
Aura Power	Amisk Solar Battery	Solar	150	Nov-25
Aura Power	Amisk Solar Battery	Storage	100	Nov-25
Aura Power	Rosyth Battery	Storage	200	Nov-25
Airport City Solar	Devon 14S DER Solar	Solar	21	Nov-25
Airport City Solar E	Blackmud 155S DER Solar	Solar	24	Nov-25
Airport City Solar	Leduc 325S DER Solar	Solar	67.3	Nov-25
Kiwetinoak	Springbrook Solar	Solar	300	Nov-25
SPWC	Willow Ridge Wind Battery	Wind	250	Nov-25
SPWC	Willow Ridge Wind Battery	Storage	50	Nov-25
PACE Canada LP	Jarrow 252S DER Solar Battery	Solar	9	Nov-25
PACE Canada LP	Jarrow 252S DER Solar Battery	Storage	5	Nov-25
BowArk Energy Ltd.	Drywood Gas	Gas	33.9	Nov-25
Obton Solar Canada	Halkirk MPC Solar Battery	Solar	68	Dec-25
Obton Solar Canada	Halkirk MPC Solar Battery	Storage	34	Dec-25
Sky Sustainable	CastorWest Solar	Solar	47	Dec-25
CastorNorth Solar	CastorNorth Solar	Solar	250	Dec-25
Legal Solar STL Inc.	Legal Solar	Solar	125	Dec-25
Villeneuve Solar STL	Villeneuve Solar	Solar	200	Dec-25
Rich Valley Solar	Rich Valley Solar	Solar	200	Dec-25
Lamoureux Solar	Lamoureux Solar	Solar	200	Dec-25
2539613 Ontario Inc.	Lacuna MPC Battery	Storage	465	Dec-25
Dromore Energy Inc.	Ra MPC Solar Battery	Solar	170	Dec-25
Dromore Energy Inc.	Ra MPC Solar Battery	Storage	80	Dec-25
Dromore Energy Inc.	Pinnacle MPC Solar Battery	Solar	220	Dec-25
Dromore Energy Inc.	Pinnacle MPC Solar Battery	Storage	80	Dec-25
SWITCH Power	Suffield 895S DER Solar	Solar	21.6	Dec-25
Dromore Energy Inc.	Apex MPC Solar Battery	Solar	270	Dec-25

Dromore Energy Inc.	Apex MPC Solar Battery	Storage	80	Dec-25
Dromore Energy Inc.	Atacama MPC Solar Battery	Solar	270	Dec-25
Dromore Energy Inc.	Atacama MPC Solar Battery	Storage	80	Dec-25
Dromore Energy Inc.	Pachamama MPC Solar Battery	Solar	420	Dec-25
Dromore Energy Inc.	Pachamama MPC Solar Battery	Storage	80	Dec-25
Dromore Energy Inc.	Jakob MPC Solar Battery	Solar	270	Dec-25
Dromore Energy Inc.	Jakob MPC Solar Battery	Storage	80	Dec-25
Universal Kraft	UK LS5 MPC Solar	Solar	25.3	Jan-26
Universal Kraft	UK LS1 MPC Solar	Solar	448	Jan-26
Universal Kraft	Sturgeon 734S DER Solar	Solar	24.5	Jan-26
Universal Kraft	UK LS4 MPC Solar	Solar	89	Jan-26
Universal Kraft	UK LS2 MPC Solar	Solar	169	Jan-26
NU-E Corp.	Jenner 275S DER Solar	Solar	38	Jan-26
PACE Canada LP	Wainwright 51S DER Solar Battery	Solar	14	Jan-26
PACE Canada LP	Wainwright 51S DER Solar Battery	Storage	7.2	Jan-26
PACE Canada LP	Provost 545S DER Solar Battery	Solar	14	Jan-26
PACE Canada LP	Provost 545S DER Solar Battery	Storage	6	Jan-26
PACE Canada LP	Bassano 435S DER Solar Battery	Solar	15	Jan-26
PACE Canada LP	Bassano 435S DER Solar Battery	Storage	3	Jan-26
RESC	RESC Oyen Wind	Wind	250	Feb-26
Clem Geo Energy	Fort Macleod 15S DER Solar	Solar	22.3	Feb-26
Northern Valley	Irish Creek 706S DER Wind	Wind	78	Mar-26
Black Diamond	Eagle Butte Wind	Wind	200	Mar-26
TransAlta	TransAlta Riplinger MPC Wind	Wind	300	Mar-26
AECO Gas Storage	Hussar 431S Battery	Storage	40	Apr-26
ABO	ABO Fox Meadows Wind	Wind	200	Apr-26
Hardline Engineering	ENMAX 162S DER Solar	Solar	26	May-26
Proteus Alberta	Proteus Solar 2 Battery	Solar	144	Jun-26
Proteus Alberta	Proteus Solar 2 Battery	Storage	61.5	Jun-26
Paul Solar Limited	Paul Band Solar	Solar	37	Jun-26
CP	CP Rolling Hills Wind	Wind	190	Jun-26

Kalina Distributed	Ellis Energy Centre MPC Gas	Gas	178	Jul-26
Lethbridge Three	Lethbridge Three Solar	Solar	140	Jul-26
Kalina Distributed	Gilby Energy Centre MPC Gas	Gas	178	Jul-26
Heidelberg Materials	Edmonton CCUS Gas	Gas	130	Jul-26
Piikani Resource	Piikani Wind	Wind	153	Jul-26
Lathom Solar LP	Lathom MPC Solar	Solar	120	Aug-26
ATCO Power (2010)	Craig Lake Wind	Wind	246	Aug-26
Saamis Solar Park	Saamis Solar	Solar	325	Aug-26
Renewable Energy	Oyen Wind Phase II	Wind	216	Sep-26
RESC	Western MPC Solar	Solar	150	Sep-26
EDP	Sounding Creek Solar Battery	Solar	200	Sep-26
EDP	Sounding Creek Solar Battery	Storage	50	Sep-26
Universal Kraft	UK TC II MPC Solar	Solar	162	Sep-26
McLaughlin Wind LP	McLaughlin MPC Wind Battery	Wind	130	Sep-26
McLaughlin Wind LP	McLaughlin MPC Wind Battery	Storage	50	Sep-26
NGCI	NGCI Ermineskin Cree Nation Solar	Solar	80	Oct-26
Sol Aurora Ltd.	Sol Aurora Solar Battery	Solar	200	Nov-26
Sol Aurora Ltd.	Sol Aurora Solar Battery	Storage	100	Nov-26
Enbridge Renewable	Chin Chute SCR3 Wind	Wind	100	Dec-26
Clem	Sunrise Solar	Solar	75	Dec-26
SWITCH Power	Cypress North DER Solar	Solar	16.5	Jan-27
Nose Hill Wind Farm	Nose Hill MPC Wind Battery	Wind	120	Jan-27
Nose Hill Wind Farm	Nose Hill MPC Wind Battery	Storage	70	Jan-27
ATCO Power (2010)	Hand Hills Wind & Solar	Wind	180	Feb-27
ATCO Power (2010)	Hand Hills Wind & Solar	Solar	120	Feb-27
Westbridge	Bear Battery	Storage	400	Feb-27
Red Willow Solar	Red Willow Solar Battery	Solar	227	Feb-27
Red Willow Solar	Red Willow Solar Battery	Storage	100	Feb-27
Kirkcaldy Solar	Kirkcaldy MPC Solar	Solar	350	Feb-27
Prairie Lights Power	Prairie Lights Power Gas	Gas	440	Feb-27
TransAlta	TransAlta Willow Creek 1 MPC Wind	Wind	70	Feb-27



TransAlta	TransAlta Willow Creek 2 MPC Wind	Wind	70	Feb-27
PACE Canada LP	Paintearth MPC Solar Battery	Solar	330	Mar-27
PACE Canada LP	Paintearth MPC Solar Battery	Storage	300	Mar-27
PACE Canada LP	Sheerness MPC Solar Battery	Solar	310	Mar-27
PACE Canada LP	Sheerness MPC Solar Battery	Storage	410	Mar-27
Plains Midstream	Plains Empress Cogen	Cogen	47	Mar-27
ABO Wind Canada	Alix MPC Solar Battery	Solar	125	May-27
ABO Wind Canada	Alix MPC Solar Battery	Storage	50	May-27
Neoen Renewables	Diamond MPC Solar Battery	Solar	60	Jun-27
Neoen Renewables	Diamond MPC Solar Battery	Storage	24	Jun-27
Wild Rose 2 Wind	Wild Rose 2 Wind Battery	Wind	50	Jul-27
Wild Rose 2 Wind	Wild Rose 2 Wind Battery	Storage	50	Jul-27
TransAlta	Provost MPC Wind	Wind	170	Aug-27
PACE Canada LP	Joffre 3 MPC Solar Battery	Solar	300	Aug-27
PACE Canada LP	Joffre 3 MPC Solar Battery	Storage	250	Aug-27
Enbridge Power	Kersey Solar Battery	Solar	225	Aug-27
Enbridge Power	Kersey Solar Battery	Storage	75	Aug-27
EDF Renewables	Kainai Pe-na-koyim Wind	Wind	300	Aug-27
TransAlta	Magrath MPC Wind	Wind	190	Sep-27
Prairie Solar (Hanna)	Prairie Solar	Solar	300	Sep-27
Federation Group	Marguerite Lake CAE Storage	Storage	320	Sep-27
Enbridge Power	Torlea Flats Wind	Wind	250	Dec-27
ABO Wind Canada	Split Battery	Storage	465	Apr-28
Invenergy	Milo Solar	Solar	202	Apr-28
Invenergy	Vauxhall Solar	Solar	122	Apr-28
Invenergy	Nevis Solar	Solar	202	Apr-28
Invenergy	Vauxhall Battery	Storage	60	Apr-28
Invenergy	Edgerton Wind	Wind	202	Apr-28
Invenergy	Hansman Lake Wind	Wind	202	Apr-28
Invenergy	Cordel Wind	Wind	202	Apr-28
Invenergy	Milo Wind	Wind	202	Apr-28

Tent Mountain	Tent Mountain MPC Pumped Hydro	Storage	400	May-28
Canadian Solar	Grassland MPC Solar Battery	Solar	200	May-28
Canadian Solar	Grassland MPC Solar Battery	Storage	200	May-28
Canadian Solar	Innisfree MPC Solar Battery	Solar	100	May-28
Canadian Solar	Innisfree MPC Solar Battery	Storage	100	May-28
Greenlight Electricity	Greenlight U2 MPC Gas	Gas	482	Jun-28
Greenlight Electricity	Greenlight U3 MPC Gas	Gas	482	Jun-28
Dromore Energy Inc.	Erin MPC Solar	Solar	150	Jun-28
Greenlight	Greenlight Gas	Gas	466	Jun-28
Prairie Home 2 Wind	Prairie Home Solar & Wind Battery	Wind	100	Jul-28
Prairie Home 2 Wind	Prairie Home Solar & Wind Battery	Storage	30	Jul-28
ATCO Power (2010)	Kitscoty Wind	Wind	174	Aug-28
Northland Power	Midnight MPC Solar	Solar	465	Aug-28
EDF Renewables	North Slope Solar	Solar	200	Aug-28
EDF Renewables	Red Rock Wind	Wind	250	Aug-28
Axium Infrastructure	Travers MPC Solar	Solar	123	Aug-28
<b>Total</b>			<b>34,497</b>	

**Table 4: Generation Projects that have Announced to be Retired/Derated**

Sponsor(s)	Project Name	Fuel	Unit Capacity*	Date	Status
Capital Power	Genesee 1	Coal	400	Feb-2024	Retire
Capital Power	Genesee 2	Coal	420	May-2024	Retire

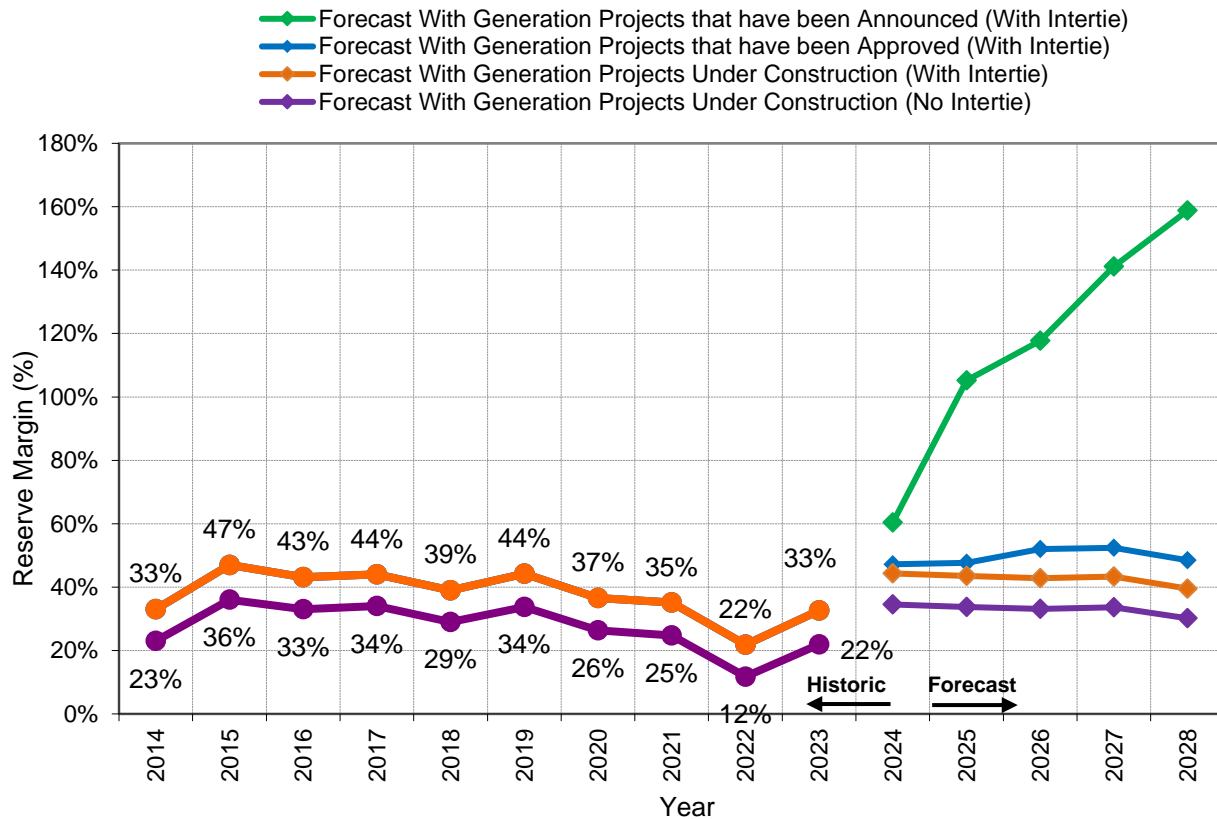
**Table 5: Summary of installed capacity of renewable generation and storage projects**

Stage	Solar (MW)	Wind (MW)	Storage (MW)
<b>Operational</b>	1,650	4,481	190
<b>Under construction</b>	1,864	1,411	139
<b>Received AUC approval</b>	1,982	778	323
<b>Announced</b>	16,355	6,562	6,760
<b>Total</b>	<b>21,851</b>	<b>13,232</b>	<b>7,412</b>
<b>2-Year Average Alberta Internal Load (AIL) Forecast</b>	<b>10,251</b>		

## Reserve Margin Metric

The Reserve Margin Metric, shown in Figure 1, presents a comparison of generation supply and demand in Alberta. It is a calculation of the firm generation capacity at the time of system peak that is in excess of the system annual peak demand, expressed as a percentage of the system peak. Information on the annual peak demand within the reserve margin can be found on the Alberta Electric System Operators' [Forecasting](#) web page. Firm generation is defined as installed and future generation capacity, adjusting for seasonal hydro capacity and behind-the-fence demand and generation, and excludes wind and solar capacity. Three forecast reserve margins are presented, each with different future supply additions. The supply additions correspond to the stage of the generation projects in the New Generation Projects and Retirements Metric. The metric is graphed with and without intertie capacity in one reserve margin since full import capability may not always be available at the time of system peak demand.

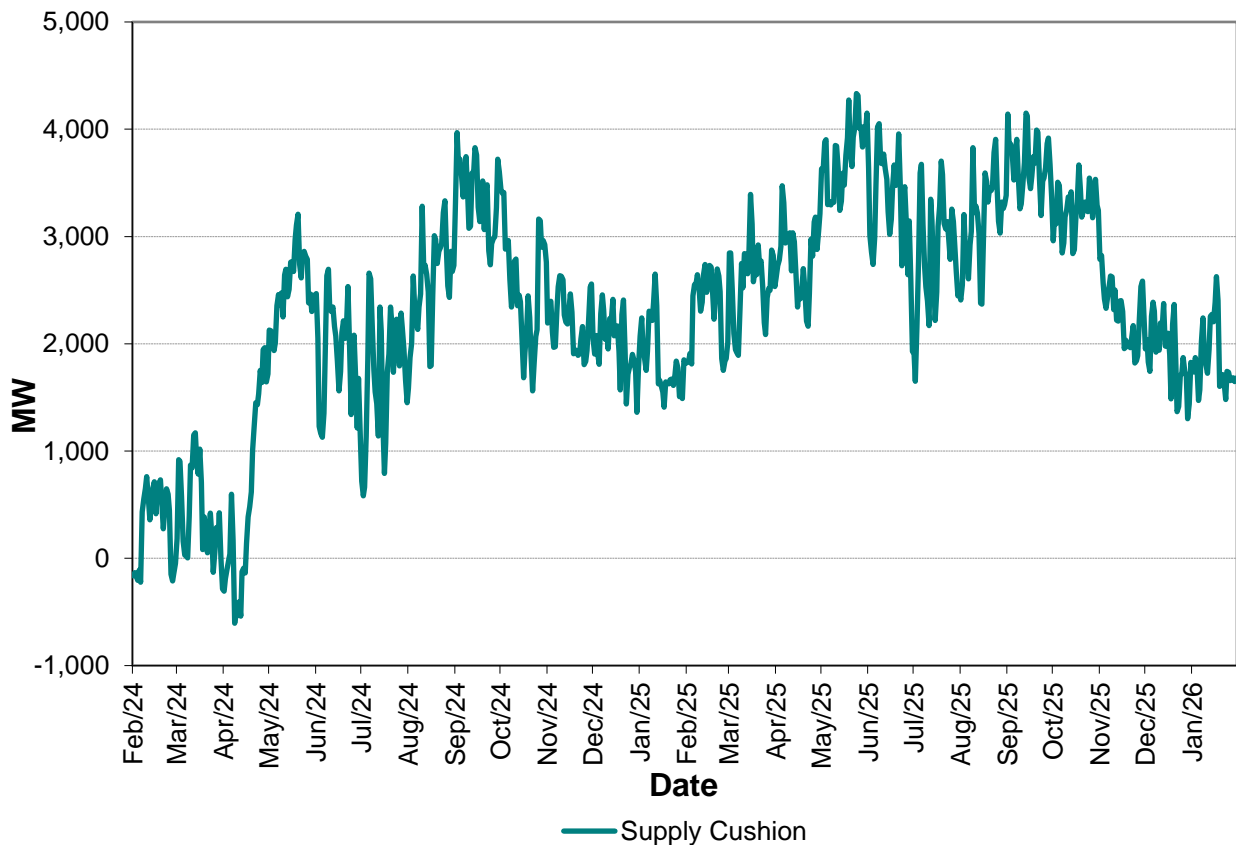
**Figure 1: Alberta Interconnected Electric System (AIES) Reserve Margin, 2014 – 2028**



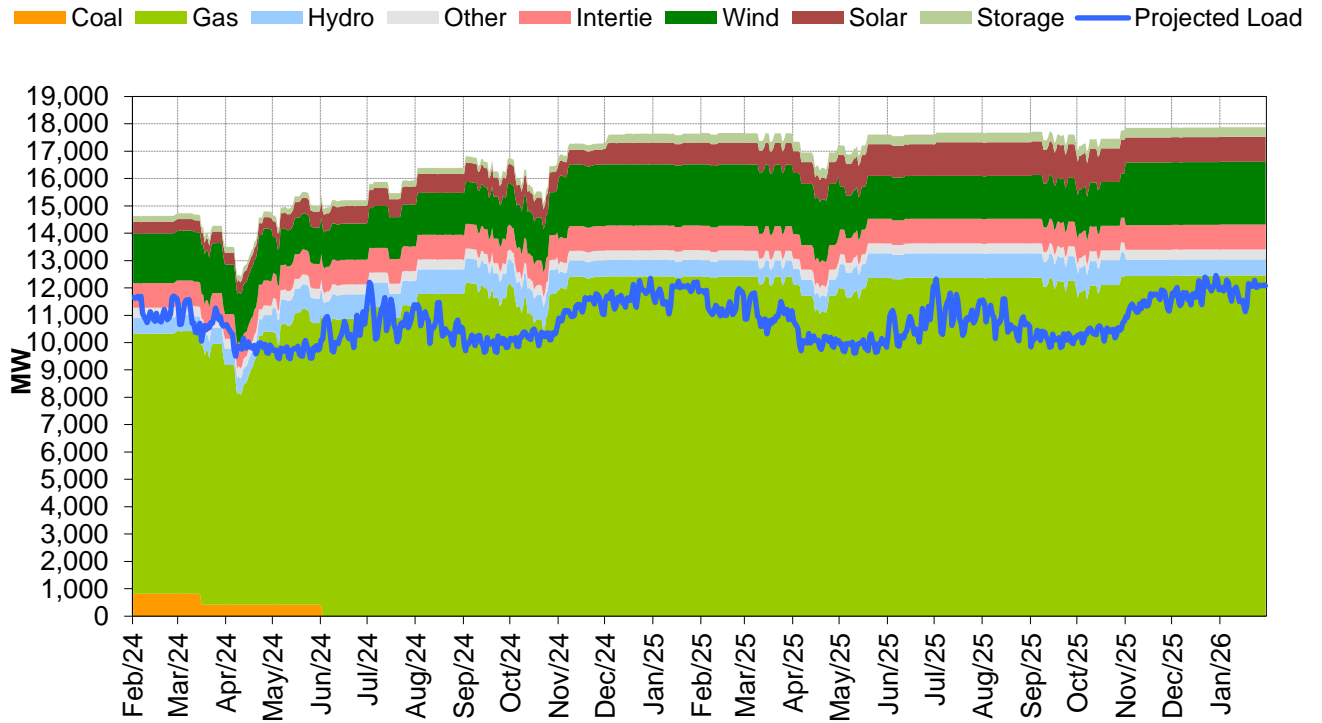
## Supply Cushion Metric

The Supply Cushion Metric provides visibility of the Alberta Internal Load’s ability to meet peak demand daily. The supply cushion is the difference between the daily available firm supply minus daily peak demand. Only existing generation and generation under construction are used within the metric. The supply cushion refines the reserve margin calculation by using daily peak rather than annual and incorporates planned outages. Figure 2 presents the estimated daily supply cushion for the next two years. Figure 3 presents daily peak demand and firm supply by fuel type, as well as interties, wind and solar which are not included in the supply cushion calculation due to the intermittent or uncertain nature of the supply. When the supply cushion is negative in Figure 2, there is an increased level of reliance on interties and wind, as indicated in Figure 3.

**Figure 2: Alberta Internal Load (AIL) Daily Supply Cushion, Feb 1, 2024, to Jan 31, 2026**



**Figure 3: Alberta Internal Load (AIL) Daily Peak Demand and Available Supply Feb 1, 2024, to Jan 31, 2026**



Outage information as of Jan 17, 2023

## Two Year Probability of Supply Adequacy Shortfall Metric

The Two-Year Probability of Supply Adequacy Shortfall Metric is a probabilistic assessment of encountering a supply shortfall over the next two years. It builds on the Supply Cushion Metric by incorporating the probability of wind production, forced generation outages and generation derates into the calculation of hourly firm supply. The calculation estimates, on a probabilistic basis, how much load may go without supply over the next two-year period. Based on extensive consultation with stakeholders, when this unserved energy exceeds **2,050 MWh** (consistent with ISO rule 202.6, Section 5(1)), the Alberta Electric System Operator may take certain actions to bridge the temporary supply adequacy gap while maintaining investor confidence in the market. The total energy not served shown in Table 6 does not reach the threshold.

**Table 6: Two Year Probability of Supply Adequacy Shortfall, Feb 1, 2024, to Jan 31, 2026**

Worst Shortfall Hour (MW)	# of Hours in Shortfall	Total Energy Not Served (MWh)
0.04	0	0.06