

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.

Summary of Changes since Previous Report

New Generation and Retirements Metric

Projects completed and removed from list:

- RESC AECG Forty Mile MPC Wind
- Concord Coaldale 254S DER Battery
- Concord Vulcan 255S DER Battery
- ENMAX Power Corp Barlow SS 24 DER Solar
- ENMAX Power Corp Deerfoot SS 24 DER Solar
- Versorium Energy Ltd. Fortis Sylvan Lake 580S DER Gas

Generation Projects moved to “Active Construction”:

- Aira Wind Power Inc. Aira Solar
- PR Prominence Solar
- Future Energy Park SS-37 DER Gas
- Keyera Corporation Wapiti 823S DER Gas
- Capital Power Capital Power Halkirk 2 Wind

Generation projects moved to “Regulatory Approval”:

- Warwick Gas Storage LP Vegreville 709S DER Battery
- Proteus Alberta Solar Ltd. Hays 421S DER Solar
- Saamis Solar Park Ltd. Saamis Solar
- Abacus Power Ltd. Three Hills 770S DER Solar
- HEP Energy hep Energy Alderson MPC Solar
- Kiwetinohk Black Bear Gas
- Kiwetinohk Granum MPC Solar
- IRRICAN Power Ltd. Raymond Reservoir Battery
- Subra Limited Partnership Michichi Creek 802S DER Solar

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

- Michichi Solar LP Michichi Creek 802S DER Battery
- Kneehill Solar LP Three Hills 770S DER Battery

Generation projects that have been added to on hold status:

Generation projects that have been cancelled:

- OEWFL Old Elm Wind
- TransAlta Willow Creek 1 MPC Wind
- TransAlta Willow Creek 2 MPC Wind
- Capital Power Aldersyde Solar
- BluEarth Prairie Yarrow MPC Wind
- TransAlta Red Rock MPC Wind
- TransAlta Sunhills Solar

Generation projects that retired:

- Capital Power Genesee 2 Coal

Other changes to generation projects:

Project	Change
Pinnacle 1 & 2 Gas	New ISD of Jun-2025 from Jan-2026
Coaldale 254S DER Solar & Wind	New ISD of Mar-2026 from Sep-2025
Brooks 121S DER Solar Battery	New ISD of Dec-2027 from Jan-2025
Clover Bar #2 Modification	New ISD of Jan-2025 from Oct-2024
Clover Bar #3 Modification	New ISD of Jan-2025 from Oct-2024
Lacuna MPC Battery	New ISD of Jan-2027 from Dec-2025
Wild Rose 2 Wind Farm	New ISD of Dec-2024 from Sep-2024
hep Energy Alderson MPC Solar	New ISD of Mar-2026 from Dec-2024
Fortis Alberta Gleichen DG Solar	New ISD of Dec-2024 from Oct-2024
TCE Saddlebrook Solar Storage	New ISD of Oct-2025 from May-2025
EDF Bull Trail Wind	New ISD of May-2028 from May-2025
ATCO Ethel Lake 717S DER Wasteheat	New ISD of Mar-2025 from Sep-2024
RESC Nova MPC Solar	New ISD of Aug-2026 from Jan-2025
CP Genesee Unit 1 Repower ST	New ISD of Aug-2024 from Jul-2024
CP Genesee 2 Repower ST	New ISD of Oct-2024 from Sep-2024

Georgetown Battery Addition	New ISD of Jul-2027 from Apr-2025
EDTI Edmonton 3 H2 Plant Cogen	New ISD of Feb-2025 from Nov-2024
Kiwetinohk Opal Gas	New ISD of Dec-2026 from Dec-2024
Aira Solar	New ISD of Jan-2026 from May-2025
PR Prominence Solar	New ISD of Feb-2026 from Sep-2025
Pteragen Peace Butte Wind	New ISD of Nov-2026 from Aug-2025
Fortis Buford 538S DER Solar	New ISD of Jun-2025 from Nov-2024
TransAlta Tempest MPC Wind	New ISD of Apr-2025 from Sep-2024
Phoenix MPC Solar	New ISD of Sep-2026 from Mar-2025
Willow Ridge Wind Battery	New ISD of Sep-2026 from Nov-2025
Enfinite Bowmanton MPC Battery	New ISD of Dec-2026 from Sep-2024
Enfinite Laramide MPC Battery	New ISD of Dec-2025 from Sep-2024
Shell SR Scotford Solar	New ISD of Mar-2028 from Jun-2024
TA Alberta Hydro WaterCharger Battery	New ISD of May-2025 from Oct-2024
Fortis Duchess 339S DER Solar	New ISD of Apr-2025 from Sep-2024
Rising Sun Solar	New ISD of Mar-2026 from Sep-2024
Aura Peace Butte Solar Battery	New ISD of Oct-2026 from Jan-2026
Fortis Aura Provost DER Solar	New ISD of Nov-2025 from Nov-2024
Mannix Solar Battery	New ISD of Jan-2026 from Jun-2024
Harvest Sky Solar Battery	New ISD of May-2026 from Jun-2024
Suncor Base Plant Cogen	New ISD of Sep-2024 from Jun-2024
Suncor Base Plant Cogen	New ISD of Oct-2024 from Jun-2024
ATCO Michichi Creek 802S DER Solar	New ISD of Aug-2024 from May-2024
Capital Power Halkirk 2 Wind	New ISD of Sep-2024 from Aug-2024

Fortis Tilley 498S DER Solar	New ISD of Dec-2024 from Oct-2024
Luna MPC Solar Battery	New ISD of Oct-2026 from Dec-2024
Taber Solar	New ISD of Feb-2025 from Oct-2024
Rimbey 297S DER Gas	New ISD of Mar-2025 from Aug-2024
Michichi Creek 802S DER Solar	New ISD of Aug-2024 from Jun-2024
Fortis Moon Lake DER Solar	New ISD of Mar-2025 from Jul-2024
Fortis Stony Plain 434S DER Solar	New ISD of Mar-2025 from Jul-2024

Reserve Margin Metric

The reserve margin has been updated to reflect changes to the project list and the 2024 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 2024 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 MWh. This value is below the 2,054 MWh threshold. The forecast Probability of Supply Adequacy Shortfall has been updated to reflect the new time period and updated using the 2024 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
ATCO	ATCO Michichi Creek 802S DER Solar	Storage	8	Aug-24
Capital Power	CP Genesee Unit 1 Repower ST	Gas	55	Aug-24
Buffalo Plains wind farm	Buffalo Plains MPC Wind	Wind	466	Aug-24
RESC	RESC Big Sky Solar	Solar	140	Aug-24
Keyera Corporation	Wapiti 823S DER Gas	Gas	30	Sep-24
Capital Power	Capital Power Halkirk 2 Wind	Wind	140	Sep-24
COL	COL Chinook 181S DER Solar	Solar	8.75	Sep-24
Suncor	Suncor Base Plant Cogen	Gas	403	Sept-24*
Capital Power	CP Genesee 2 Repower ST	Gas	55	Oct-24
Enerfin	Enerfin Winnifred MPC Wind	Wind	90	Oct-24
Enerfin	Enerfin Winnifred Wind Modification	Wind	60	Oct-24
Suncor	Suncor Base Plant Cogen	Gas	403	Oct-24*
Fortis	FortisAlberta Bassano 435S DER Solar	Solar	10	Nov-24

Solar Krafte	Solar Krafte Brooks	Solar	360	Dec-24
Greengate	Northland Power Jurassic MPC Solar Battery	Solar	220	Dec-24
Greengate Power Corporation	Northland Power Jurassic MPC Solar Battery	Storage	80	Dec-24
ATCO	ATCO Oyen 767S DER Solar	Solar	15	Dec-24
Capstone	Wild Rose 2 Wind Farm	Wind	192	Dec-24
Eridani Ltd.	FortisAlberta Metiskow 648S DER Solar	Solar	22.5	Dec-24
Eridani Ltd.	FortisAlberta Metiskow 648S DER Solar	Storage	22.5	Dec-24
Fortis	FortisAlberta Gleichen DG Solar	Solar	13.3	Dec-24
ATCO	ATCO Bullpound 803S DER Solar	Solar	14.3	Dec-24
Fortis	Fortis Tilley 498S DER Solar	Solar	23.6	Dec-24
Fortis	Fortis Tilley 498S DER Solar	Storage	8	Dec-24
ATCO	ATCO Anderson 801S DER Solar	Solar	13	Jan-25
Fortis	FortisAlberta Killarney Lake 267S DER Solar/Battery Storage	Solar	22.5	Jan-25
Fortis	FortisAlberta Killarney Lake 267S DER Solar/Battery Storage	Storage	22.5	Jan-25
CNRL	CNRL Primrose East 641S Gas	Gas	32	Jan-25
Enmax	Taber Solar	Solar	45	Feb-25
EDTI	EDTI Edmonton 3 H2 Plant Cogen	Gas	100	Feb-25
ATCO	ATCO Ethel Lake 717S DER Wasteheat	Gas	19	Mar-25
Journey Energy	Rimbey 297S DER Gas	Gas	15.1	Mar-25
Voltarix	Fortis Moon Lake DER Solar	Solar	18.4	Mar-25
Voltarix	Fortis Stony Plain 434S DER Solar	Solar	18.4	Mar-25
Acestes	Fortis Duchess 339S DER Solar	Solar	19.8	Apr-25

Dunmore Solar Inc.	Dunmore Solar	Solar	216	May-25
Voltarix	Fortis Buford 538S DER Solar	Solar	18.4	Jun-25
Future Energy Park	SS-37 DER Gas	Gas	29.5	Jun-25
Suncor	Forty Mile Granlea Modification	Wind	25	Jul-25
Suncor	Forty Mile Granlea Solar Phase 2	Solar	220	Jul-25
RESC	Enterprise MPC Solar	Solar	65	Jul-25
Concord	Fortis Vulcan 255S DER Solar	Solar	15	Jul-25
RESC	AECG Forty Mile Wind Phase 2	Wind	134	Sep-25
TCE	TCE Saddlebrook Solar Storage	Storage	6.5	Oct-25
ENMAX	ENMAX FMC Change	Gas	18	Oct-25
ENMAX	ENMAX FMC DER Cogen	Gas	7	Oct-25
Aura Power	Fortis Aura Provost DER Solar	Solar	22.5	Nov-25
Solar Krafte	Solar Krafte Vauxhall	Solar	60	Dec-25
Aira Wind Power Inc.	Aira Solar	Solar	450	Jan-26
PACE Canada LP	Sundre 575S DER Solar	Solar	14.6	Jan-26
PR	PR Prominence Solar	Solar	80	Feb-26
Georgetown Solar Inc.	Georgetown Solar	Solar	230	Nov-26
Kiwetinohk	Kiwetinohk Opal Gas	Gas	101	Dec-26
ENGIE	ENGIE Buffalo Trail North Wind	Wind	200	Jan-28
Shell	Shell SR Scotford Solar	Solar	58	Mar-28
Total (MW)			5,136	

*Asset ISD considered to be end of year for calculating LTA metrics, to account for commissioning

Table 2: Generation Projects with Regulatory Approval

Sponsor(s)	Project Name	Fuel	Unit Capacity	ISD
Subra Limited Partnership	Michichi Creek 802S DER Solar	Solar	4.99	Aug-24
IRRICAN Power Ltd.	Raymond Reservoir Battery	Storage	15.4	Jan-25
TransAlta	TransAlta Tempest MPC Wind	Wind	100	Apr-25
TransAlta Corporation	Pinnacle 1 & 2 Gas	Gas	44.6	Jun-25
Greencells	Greencells Estuary Solar	Solar	200	Jun-25
Kiwetinohk	Kiwetinohk Black Bear Gas	Gas	450	Jul-25
Acestes Power ULC	East Camrose 285S DER Solar Battery	Solar	23.3	Aug-25
Warwick Gas Storage LP	Vegreville 709S DER Battery	Storage	11	Oct-25
Abacus Power Ltd.	Three Hills 770S DER Solar	Solar	18	Oct-25
Airport City Solar East Ltd.	Devon 14S DER Solar	Solar	21	Nov-25
Kiwetinohk	Kiwetinohk Granum MPC Solar	Solar	350	Nov-25
Greengate	Luna 2 MPC Solar Battery	Solar	465	Dec-25
Greengate	Luna 2 MPC Solar Battery	Storage	80	Dec-25
Kiwetinohk	Kiwetinohk Homestead MPC Solar	Solar	400	Mar-26
HEP Energy	hep Energy Alderson MPC Solar	Solar	100	Mar-26
Elemental Energy	High River 65S DER Solar	Solar	18.5	Apr-26
Proteus Alberta Solar Ltd.	Hays 421S DER Solar	Solar	45	Apr-26
Prairie Lights Power	Grand Prairie MPC Gas	Gas	400	Jun-26
RESC	RESC Nova MPC Solar	Solar	150	Aug-26
Saamis Solar Park Ltd.	Saamis Solar	Solar	325	Aug-26
Aura Power	Aura Peace Butte Solar Battery	Solar	230	Oct-26
Aura Power	Aura Peace Butte Solar Battery	Storage	100	Oct-26
Greengate	Luna MPC Solar Battery	Solar	465	Oct-26
Greengate	Luna MPC Solar Battery	Storage	80	Oct-26
Pteragen	Pteragen Peace Butte Wind	Wind	122	Nov-26
Turning Point Gen	TPG Canyon Creek PHES Storage Project	Storage	75	May-27
Ascent	Sunnynook Solar Battery	Solar	280	May-27

Ascent	Sunnynook Solar Battery	Storage	100	May-27
EDF	EDF Bull Trail Wind	Wind	300	May-28
Total (MW)			4,974	

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
Journey Energy Inc.	High River 65S DER Gas	Gas	16.5	Dec-24
Capital Power (CBEC) L.P.	Clover Bar #2 Modification	Gas	9	Jan-25
Capital Power (CBEC) L.P.	Clover Bar #3 Modification	Gas	9	Jan-25
Universal Kraft	UK Solar East	Solar	400	Jan-25
ATCO	ENMAX SS-24 DER Battery	Storage	21.5	Feb-25
Dolcy	Dolcy MPC Solar Battery	Solar	250	Feb-25
Dolcy	Dolcy MPC Solar Battery	Storage	100	Feb-25
Pembina Gas	Kaybob South 3 Cogen	Gas	33	Mar-25
BER Hand Hills Wind LP	Hand Hills Battery	Storage	10	Mar-25
Lethbridge Two Solar Corp.	Riverbend 618S DER Solar	Solar	17	Apr-25
Pengrowth	Cold Lake Area Energy Centre	Gas	100	Apr-25
TransAlta	TA Alberta Hydro WaterCharger Battery	Storage	180	May-25
Kneehill Solar LP	Michichi Creek 802S DER Battery	Storage	10.1	May-25
Kneehill Solar LP	Three Hills 770S DER Battery	Storage	10.1	May-25
ABO Wind Canada Ltd.	Stettler 769S DER Solar Battery	Solar	25	Jun-25
ABO Wind Canada Ltd.	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
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
Alderson Renewable Energy Corporation	Alderson Solar & Wind	Solar	200	Jul-25
Alderson Renewable Energy Corporation	Alderson Solar & Wind	Wind	450	Jul-25
Kiwetinohk	Kiwetinohk Flipi MPC Gas	Gas	444	Aug-25
Acestes Power ULC	East Camrose 285S 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 Inc	Silver Creek Solar	Solar	96	Aug-25
Greenwood Sustainable Infrastructure LLC	Red Deer 63S DER Solar	Solar	19	Sep-25
Spruce Grove 1 Solar STL Inc.	Acheson 305S DER Solar	Solar	23	Sep-25
Morinville Solar STL Inc.	Northwest Cardiff 191S DER Solar	Solar	17	Sep-25
Cardiff Solar STL Inc.	Northwest Cardiff 191S DER Solar	Solar	23	Sep-25
ENGIE	ENGIE Duchess Solar	Solar	90	Sep-25
HEP Canada SPV3 Ltd.	Carseland 525S DER Solar	Solar	22	Sep-25
Joss Wind	Northern Lights WAGF	Wind	400	Sep-25
Aura Power Renewables Ltd.	South Bend Solar Battery	Solar	280	Oct-25
Aura Power Renewables Ltd.	South Bend Solar Battery	Storage	200	Oct-25
Cascade Power Project LP	Cascade Gas	Gas	32	Oct-25
ABO	Smoky River MPC Wind	Wind	160	Oct-25
PACE Canada LP	Tucuman 478S DER Solar Battery	Solar	14.8	Oct-25

PACE Canada LP	Tucuman 478S DER Solar Battery	Storage	7	Oct-25
Aura Power Renewables Ltd.	Rosyth Battery	Storage	200	Nov-25
Airport City Solar East Ltd.	Blackmud 155S DER Solar	Solar	24	Nov-25
Airport City Solar East Ltd.	Leduc 325S DER Solar	Solar	67.3	Nov-25
Kiwetinohk	Springbrook Solar	Solar	300	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
Sky Sustainable and Green Energy Corp	CastorWest Solar	Solar	47	Dec-25
CastorNorth Solar STL Inc.	CastorNorth Solar	Solar	250	Dec-25
Legal Solar STL Inc.	Legal Solar	Solar	125	Dec-25
Villeneuve Solar STL Inc.	St. Albert Solar	Solar	200	Dec-25
Rich Valley Solar STL Inc.	Rich Valley Solar	Solar	200	Dec-25
Lamoureux Solar STL Inc.	Lamoureux Solar	Solar	200	Dec-25
PACE Canada LP	Sedgewick 137S DER Solar Battery	Solar	22	Dec-25
PACE Canada LP	Sedgewick 137S DER Solar Battery	Storage	6	Dec-25
Enfinite	Enfinite Laramide MPC Battery	Storage	100	Dec-25
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	Mannix Solar Battery	Solar	59	Jan-26
PACE Canada	Mannix Solar Battery	Storage	34	Jan-26
RESC	RESC Oyen Wind	Wind	250	Feb-26
2365921 Alberta Ltd.	Coaldale 254S DER Solar & Wind	Wind	12.3	Mar-26

Kiwetinohk	Little Flipi MPC Gas	Gas	120	Mar-26
Black Diamond Renewable Energy Corporation	Eagle Butte Wind	Wind	200	Mar-26
Cache	Rising Sun Solar	Solar	125	Mar-26
Axiom Infrastructure Canada II LP	Travers Battery	Storage	99	Mar-26
Grounded Technical Solutions Ltd.	Keystone 384S DER Gas	Gas	21.5	Mar-26
AECO Gas Storage Partnership	Hussar 431S Battery	Storage	40	Apr-26
ABO	ABO Fox Meadows Wind	Wind	200	Apr-26
Universal Kraft Renewables Ltd	Sturgeon 734S DER Solar	Solar	24.5	May-26
EDP Renewables	Arenosum Solar	Solar	150	May-26
Pace Canada	Harvest Sky Solar Battery	Solar	40	May-26
Pace Canada	Harvest Sky Solar Battery	Storage	14	May-26
SWITCH Power	Cypress North DER Solar	Solar	16.5	Jun-26
Paul Solar Limited Partnership (Paul Solar (GP) Inc.)	Paul Band Solar	Solar	37	Jun-26
SWITCH Power	Suffield 895S DER Solar	Solar	21.6	Jun-26
PACE Canada LP	Harvest Sky MPC Solar	Solar	25	Jun-26
Kalina Distributed Power Ltd.	Ellis Energy Centre MPC Gas	Gas	178	Jul-26
Lethbridge Three Solar Corp	Lethbridge Three Solar	Solar	140	Jul-26
Kalina Distributed Power Limited	Gilby Energy Centre MPC Gas	Gas	178	Jul-26
Teric Power Ltd.	Sturgeon 734S DER Battery	Storage	23	Jul-26
TERIC Power Ltd.	Saddle Hills 865S DER Battery	Storage	33	Jul-26
ATCO Power (2010) Ltd.	Oldman River Battery	Storage	23.1	Jul-26
Pembina Empress NGL Partnership	Empress Battery	Storage	23.1	Jul-26

Spirit Pine	Lone Pine MPC Wind	Wind	173	Jul-26
Heidelberg Materials Canada	Edmonton CCUS Gas	Gas	130	Jul-26
Piikani Resource Development Ltd.	Piikani Wind	Wind	153	Jul-26
ATCO Power (2010) Ltd.	Craig Lake Wind	Wind	246	Aug-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 Canada Renewables Ltd.	UK LS5 MPC Solar	Solar	25.3	Sep-26
Phoenix	Phoenix MPC Solar	Solar	170	Sep-26
SPWC	Willow Ridge Wind Battery	Wind	250	Sep-26
SPWC	Willow Ridge Wind Battery	Storage	50	Sep-26
EER	EER Foothills MPC Solar	Solar	150	Sep-26
Sol Aurora Ltd.	Sol Aurora Solar Battery	Solar	200	Nov-26
Sol Aurora Ltd.	Sol Aurora Solar Battery	Storage	100	Nov-26
Obton Solar Canada Inc.	Vilna 777S DER Solar	Solar	31.1	Nov-26
Obton Solar Canada Inc.	Vilna 777S DER Solar	Storage	30	Nov-26
Obton Solar Canada Inc.	Coronation 773S DER Solar	Solar	19.6	Nov-26
Obton Solar Canada Inc.	Coronation 773S DER Solar	Storage	19.6	Nov-26
Clem	Sunrise Solar	Solar	75	Dec-26
Enfinite	Enfinite Bowmanton MPC Battery	Storage	100	Dec-26
Obton Solar Canada Inc.	Halkirk MPC Solar	Solar	68	Dec-26
Obton Solar Canada Inc.	Halkirk MPC Solar	Storage	34	Dec-26

Universal Kraft Canada Renewables Ltd.	UK TC II MPC Solar	Solar	162	Jan-27
2539613 Ontario Inc.	Lacuna MPC Battery	Storage	465	Jan-27
Plains Midstream Canada ULC	Plains Empress Cogen	Gas	47	Jan-27
Dromore Energy Inc.	Atacama MPC Solar Battery	Solar	270	Jan-27
Dromore Energy Inc.	Atacama MPC Solar Battery	Storage	80	Jan-27
Nose Hill Wind Farm Inc.	Nose Hill MPC Wind Battery	Wind	120	Jan-27
Nose Hill Wind Farm Inc.	Nose Hill MPC Wind Battery	Storage	70	Jan-27
Universal Kraft Canada Renewables Ltd.	UK LS1 MPC Solar	Solar	448	Feb-27
ATCO Power (2010) Ltd.	Hand Hills Wind & Solar	Wind	180	Feb-27
ATCO Power (2010) Ltd.	Hand Hills Wind & Solar	Solar	120	Feb-27
Lathom Solar LP	Lathom MPC Solar	Solar	120	Feb-27
Red Willow Solar Inc.	Red Willow Solar Battery	Solar	227	Feb-27
Red Willow Solar Inc.	Red Willow Solar Battery	Storage	100	Feb-27
Kirkcaldy Solar Energy Partnership c/o Horus Solar Alberta Ltd.	Kirkcaldy MPC Solar	Solar	350	Feb-27
Prairie Lights Power GP Inc.	Prairie Lights Power Gas	Gas	440	Feb-27
Clem Geo Energy Corp.	Fort Macleod 15S DER Solar	Solar	22.3	Feb-27
Universal Kraft Canada Inc.	UK LS4 MPC Solar	Solar	89	Apr-27
Neoen Renewables Canada Inc.	Diamond MPC Solar Battery	Solar	60	Jun-27

Neoen Renewables Canada Inc.	Diamond MPC Solar Battery	Storage	24	Jun-27
Dromore Energy Inc.	Apex MPC Solar Battery	Solar	270	Jun-27
Dromore Energy Inc.	Apex MPC Solar Battery	Storage	80	Jun-27
Dromore Energy Inc.	Pinnacle MPC Solar Battery	Solar	220	Jun-27
Dromore Energy Inc.	Pinnacle MPC Solar Battery	Storage	80	Jun-27
Dromore Energy Inc.	Jakob MPC Solar Battery	Solar	270	Jun-27
Dromore Energy Inc.	Jakob MPC Solar Battery	Storage	80	Jun-27
Wild Rose 2 Wind LP	Wild Rose 2 Wind Battery	Wind	50	Jul-27
Wild Rose 2 Wind LP	Wild Rose 2 Wind Battery	Storage	50	Jul-27
Georgetown Solar Inc.	Georgetown Battery Addition	Storage	100	Jul-27
TransAlta Corporation	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 Development Canada Inc.	Kersey Solar Battery	Solar	225	Aug-27
Enbridge Power Development Canada Inc.	Kersey Solar Battery	Storage	75	Aug-27
Renewable Energy Systems Canada Inc.	Oyen Wind Phase II	Wind	216	Sep-27
TransAlta Corporation	Magrath MPC Wind	Wind	190	Sep-27
Prairie Solar (Hanna) Corp	Prairie Solar	Solar	300	Sep-27
Proteus Alberta Solar 2 Ltd.	Proteus Solar 2 Battery	Solar	144	Sep-27
Proteus Alberta Solar 2 Ltd.	Proteus Solar 2 Battery	Storage	61.5	Sep-27

Federation Group Inc.	Marguerite Lake CAE Storage	Storage	320	Sep-27
ESI	Eastervale Solar Battery	Storage	300	Oct-27
ESI	Eastervale Solar Battery	Storage	200	Oct-27
Universal Kraft Canada Inc.	UK LS2 MPC Solar	Solar	169	Nov-27
Enbridge Power Development Canada Inc.	Torlea Flats Wind	Wind	250	Dec-27
Pembina Pipeline Corporation	LCHA MPC Cogen CO2	Gas	21	Dec-27
PACE Canada LP	Brooks 121S DER Solar Battery	Solar	26	Dec-27
PACE Canada LP	Brooks 121S DER Solar Battery	Storage	16	Dec-27
PACE Canada LP	Bassano 435S DER Solar Battery	Solar	15	Jan-28
PACE Canada LP	Bassano 435S DER Solar Battery	Storage	3	Jan-28
NGCI	NGCI Ermineskin Cree Nation Solar	Solar	80	Jan-28
PACE Canada LP	Paintearth MPC Solar Battery	Solar	330	Mar-28
PACE Canada LP	Paintearth MPC Solar Battery	Storage	300	Mar-28
PACE Canada LP	Sheerness MPC Solar Battery	Solar	310	Mar-28
PACE Canada LP	Sheerness MPC Solar Battery	Storage	410	Mar-28
ABO Wind Canada Ltd.	Split Battery	Storage	465	Apr-28
Invenergy Renewables Canada Development ULC	Milo Solar	Solar	202	Apr-28
Invenergy Renewables Canada Development ULC	Vauxhall Solar	Solar	122	Apr-28
Invenergy Renewables Canada Development ULC	Nevis Solar	Solar	202	Apr-28
Invenergy Renewables Canada Development ULC	Vauxhall Battery	Storage	60	Apr-28

Invenergy Renewables Canada Development ULC	Edgerton Wind	Wind	202	Apr-28
Invenergy Renewables Canada Development ULC	Hansman Lake Wind	Wind	202	Apr-28
Tent Mountain Pumped Hydro LP	Tent Mountain MPC Pumped Hydro	Storage	400	May-28
Greenlight Electricity Centre GP Ltd.	Greenlight U2 MPC Gas	Gas	482	Jun-28
Greenlight Electricity Centre GP Ltd.	Greenlight U3 MPC Gas	Gas	482	Jun-28
Dromore Energy Inc.	Ra MPC Solar Battery	Solar	170	Jun-28
Dromore Energy Inc.	Ra MPC Solar Battery	Storage	80	Jun-28
Dromore Energy Inc.	Pachamama MPC Solar Battery	Solar	420	Jun-28
Dromore Energy Inc.	Pachamama MPC Solar Battery	Storage	80	Jun-28
Dromore Energy Inc.	Erin MPC Solar Battery	Solar	150	Jun-28
Greenlight	Greenlight Gas	Gas	466	Jun-28
ATCO Power (2010) Ltd.	Kitscoty Wind	Wind	174	Aug-28
Axium Infrastructure Canada II LP	Travers MPC Solar	Solar	123	Aug-28
Total (MW)			25,173	

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

Sponsor(s)	Project Name	Fuel	Unit Capacity*	Date	Status
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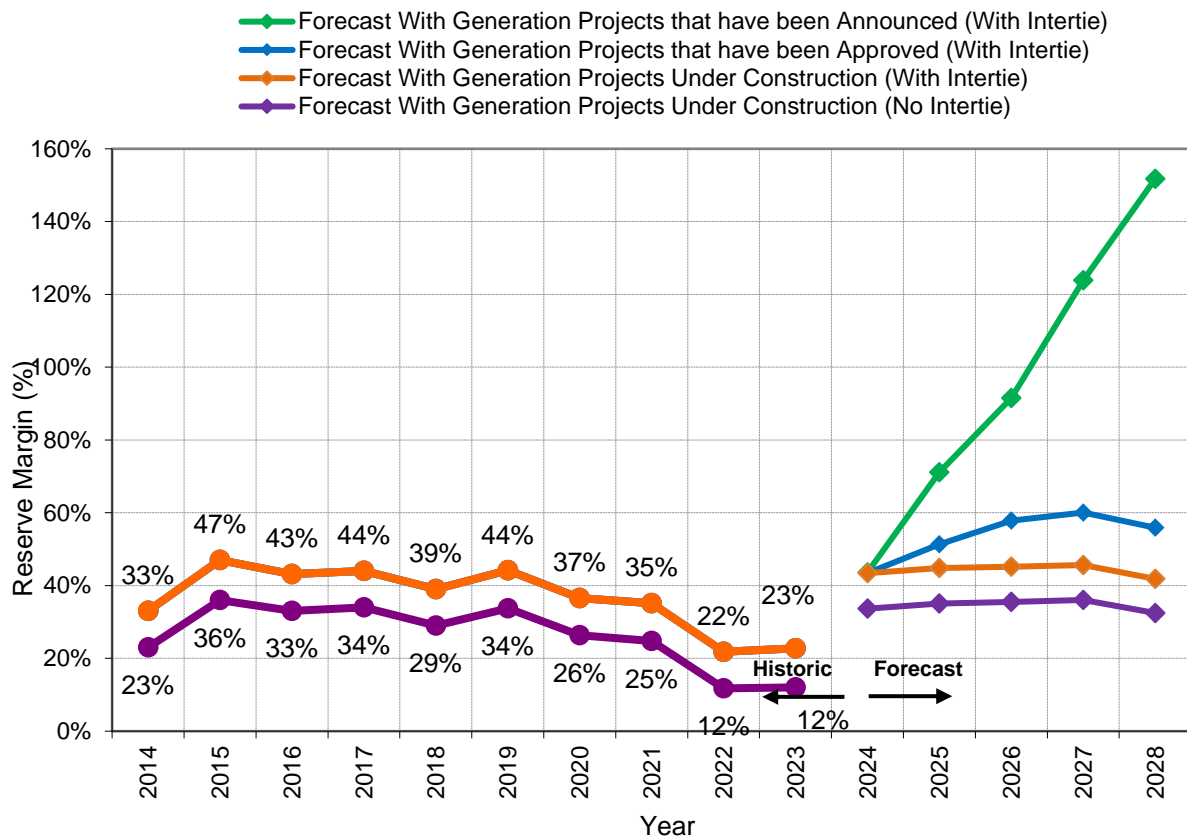
Table 5: Summary of installed capacity of generation and storage projects

Stage	Solar (MW)	Wind (MW)	Storage (MW)	Gas (MW)	Hydro and Other (MW)	Total (MW)
Operational	1,658	4,748	190	13,128	1,338	21,062
Under construction	2,414	1,307	148	1,268	0	5,137
Received AUC approval	3,096	522	461	895	0	4,974
Announced	11,700	4,248	5,982	3,243	0	25,173
Total	18,868	10,825	6,781	18,533	1,338	56,345
2-Year Average Alberta Internal Load (AIL) Forecast	10,268					

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 inertia 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, August 1, 2024, to July 31, 2026

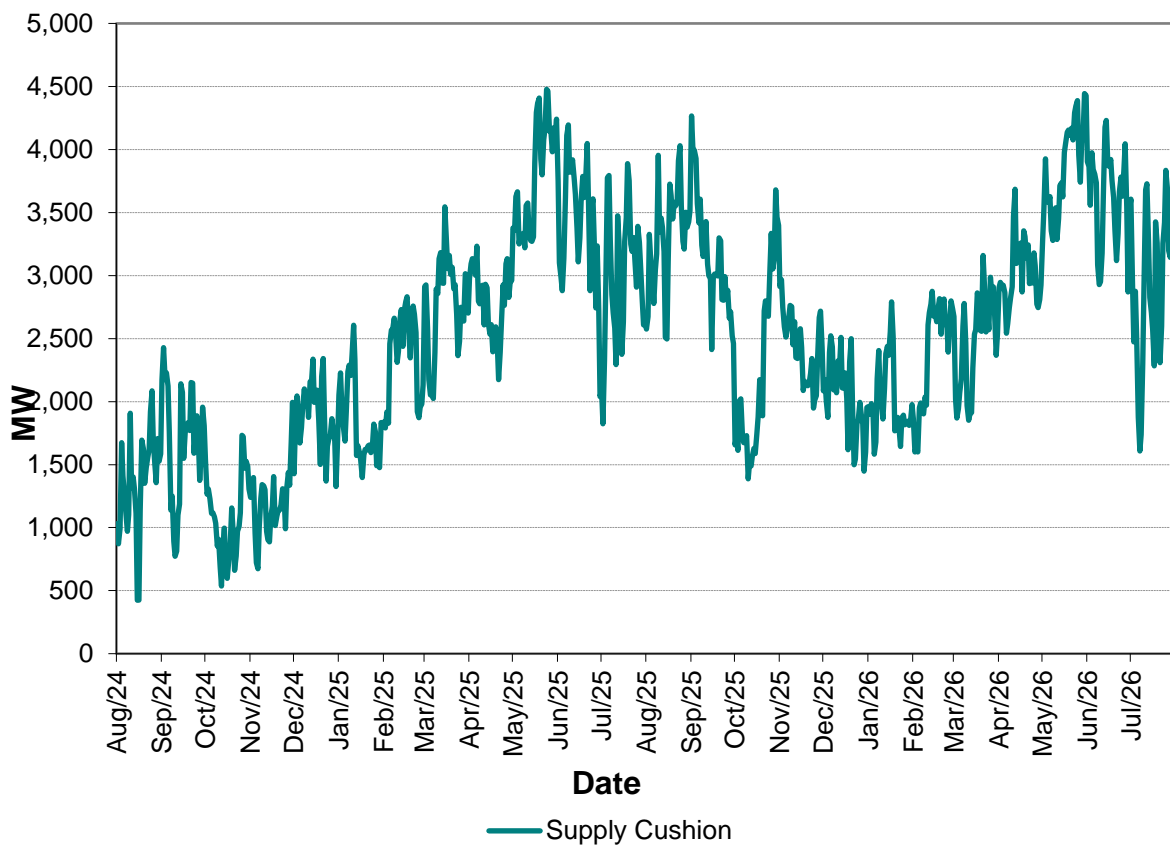
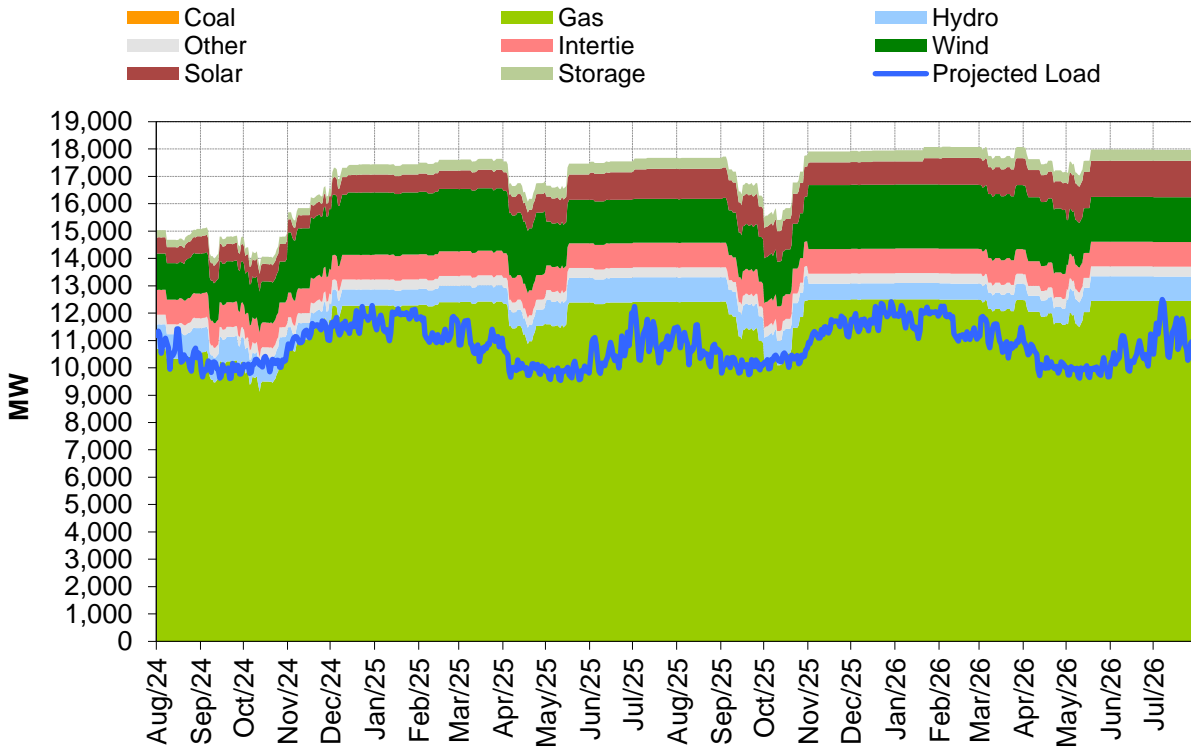


Figure 3: Alberta Internal Load (AIL) Daily Peak Demand and Available Supply August 1, 2024, to July 31, 2026



Outage information as of July 23, 2024

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 **2,054 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, August 1, 2024, to July 31, 2026

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