

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:

- Capital Power CP Genesee Unit 6 Gas
- Concord Monarch 492S DER Battery

Generation Projects moved to “Active Construction”:

- Kiwetinohk Opal Gas
- Concord Vulcan 255S DER Battery
- Concord Coaldale 254S DER Battery

Generation projects moved to “Regulatory Approval”:

- Aira Wind Power Inc. Aira Solar
- ATCO Barlow SS 24 DER Solar - Modification
- ATCO Deerfoot SS 24 DER Solar - Modification
- Acestes Power ULC East Camrose 285S DER Solar Battery
- TransAlta Corporation Pinnacle 1 & 2 Gas
- Elemental Energy High River 65S DER Solar
- Airport City Solar East Ltd. Devon 14S DER Solar
- Aura Power Aura Peace Butte Solar Battery
- Keyera Corporation Wapiti 823S DER Gas

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

- Pembina Pipeline Corporation LCHA MPC Cogen CO2

Generation projects that have been added to on hold status:

Generation projects that have been cancelled:

- FortisAlberta Brazeau Area Reliability
- Capital Power Whitla MPC Solar
- Jumping Pound 271S Contract Change
- Ponoka 331S DER Solar Battery
- Amisk Solar Battery
- Sunland Solar Battery

- Irish Creek 706S DER Wind
- North Slope Solar
- Red Rock Wind
- Kainai Pe-na-koyim Wind
- Bear Battery
- Prairie Home Solar & Wind Battery
- Grassland Solar Battery
- Innisfree MPC Solar Battery
- ENMAX 162S DER Solar
- Eyremore MPC Gas
- Midnight MPC Solar
- Chin Chute SCR3 Wind
- Fox Creek 741S DER Solar
- Jenner 275S DER Solar
- Alix MPC Solar Battery
- McLaughlin MPC Wind Battery
- Cordel Wind
- Milo Wind

Generation projects that retired:

- Capital Power Genesee 1 coal

Other changes to generation projects:

Project	Change
Wild Rose 2 Wind Farm	New ISD of Sep-2024 from Apr-2024
TPG Canyon Creek PHES Storage Project	New ISD of May-2027 from May-2026
Lone Pine MPC Wind	New ISD of Jul-2026 from Dec-2024
Solar Krafte Vauxhall	New ISD of Dec-2025 from Jun-2024
Kinbrook MPC Solar	New ISD of Jun-2026 from Dec-2024
Arenosum Solar	New ISD of May-2026 from Aug-2025
AECG Forty Mile MPC Wind	New ISD of Jun-2024 from Jul-2024
Buffalo Plains MPC Wind	New ISD of Aug-2024 from Jul-2024
Enterprise MPC Solar	New ISD of Jul-2025 from Nov-2024
TCE Saddlebrook Solar Storage	New ISD of May-2025 from Oct-2023

Fortis Vulcan 255S DER Solar	New ISD of Jul-2025 from Jun-2024
Dunmore Solar	New ISD of May-2025 from Dec-2024
ATCO Anderson 801S DER Solar	New ISD of Jan-2025 from Jun-2024
Old Elm Wind	New ISD of Oct-2026 from Oct-2025
Georgetown Solar	New ISD of Nov-2026 from Apr-2025
EER Foothills MPC Solar	New ISD of Sep-2026 from Sep-2025
Capital Power Halkirk 2 Wind	New ISD of Aug-2024 from Jul-2024
Kiwetinohk Homestead MPC Solar	New ISD of Mar-2026 from Nov-2024
Fortis Tilley 498S DER Solar	New ISD of Oct-2024 from May-2024
Luna MPC Solar Battery	New ISD of Dec-2024 from May-2026
Sunnynook Solar Battery	New ISD of May-2027 from Aug-2024
NGCI Ermineskin Cree Nation Solar	New ISD of Jan-2028 from Oct-2026
Kiwetinohk Granum MPC Solar	New ISD of Nov-2025 from Nov-2024
ATCO Bullpound 803S DER Solar	New ISD of Dec-2024 from Jun-2024
Eastervale Solar Battery	New ISD of Oct-2027 from Mar-2025
Little Flipi MPC Gas	New ISD of Mar-2026 from Sep-2025
Sundre 575S DER Solar	New ISD of Jan-2026 from Oct-2024
Travers Battery	New ISD of Mar-2026 from Aug-2025
Oyen Wind Phase II	New ISD of Sep-2027 from Sep-2026
Fort Macleod 15S DER Solar	New ISD of Feb-2027 from Feb-2026
Pinnacle 1 & 2 Gas	New ISD of Jan-2026 from Jun-2025
Cypress North DER Solar	New ISD of Jun-2026 from Jan-2027
UK LS5 MPC Solar	New ISD of Sep-2026 from Jan-2026
UK LS1 MPC Solar	New ISD of Feb-2027 from Jan-2026

Sturgeon 734S DER Solar	New ISD of May-2026 from Jan-2026
Paintearth MPC Solar Battery	New ISD of Mar-2028 from Mar-2027
Sheerness MPC Solar Battery	New ISD of Mar-2028 from Mar-2027
UK LS4 MPC Solar	New ISD of Apr-2027 from Jan-2026
Halkirk MPC Solar	New ISD of Dec-2026 from Dec-2025
High River 65S DER Solar	New ISD of Apr-2026 from Mar-2025
Tucuman 478S DER Solar Battery	New ISD of Oct-2025 from Jan-2025
Sedgewick 137S DER Solar Battery	New ISD of Dec-2025 from Jan-2025
Sturgeon 734S DER Battery	New ISD of Jul-2026 from Feb-2025
UK TC II MPC Solar	New ISD of Jan-2027 from Sep-2026
Lathom MPC Solar	New ISD of Feb-2027 from Aug-2026
Hays 421S DER Solar	New ISD of Apr-2026 from Jan-2025
Saddle Hills 865S DER Battery	New ISD of Jul-2026 from Feb-2025
Proteus Solar 2 Battery	New ISD of Sep-2027 from Jun-2026
Keystone 384S DER Gas	New ISD of Mar-2026 from Jul-2025
Plains Empress Cogen	New ISD of Jan-2027 from Mar-2027
Three Hills 770S DER Solar	New ISD of Oct-2025 from Jul-2025
Vilna 777S DER Solar	New ISD of Nov-2026 from Jul-2025
Coronation 773S DER Solar	New ISD of Nov-2026 from Jul-2025
Ra MPC Solar Battery	New ISD of Jun-2028 from Dec-2025
Apex MPC Solar Battery	New ISD of Jun-2027 from Dec-2025
Atacama MPC Solar Battery	New ISD of Jan-2027 from Dec-2025
Pinnacle MPC Solar Battery	New ISD of Jun-2027 from Dec-2025
Pachamama MPC Solar Battery	New ISD of Jun-2028 from Dec-2025

Jakob MPC Solar Battery	New ISD of Jun-2027 from Dec-2025
Oldman River Battery	New ISD of Jul-2026 from Feb-2025
Empress Battery	New ISD of Jul-2026 from Feb-2025
Harvest Sky MPC Solar	New ISD of Jun-2026 from Jun-2024
Bassano 435S DER Solar Battery	New ISD of Jan-2028 from Jan-2026
Suffield 895S DER Solar	New ISD of Jun-2026 from Dec-2025
Cascade Combined Cycle	New ISD of Mar-2024 from Apr-2024
CP Genesee Unit 7 Gas	New ISD of May-2024 from Apr-2024
Monarch 492S DER Battery	New ISD of Apr-2024 from Feb-2024
Vulcan 255S DER Battery	New ISD of Jun-2024 from Mar-2024
Coaldale 254S DER Battery	New ISD of Jun-2024 from Mar-2024
ATCO Michichi Creek 802S DER Solar	New ISD of May-2023 from Nov-2023
CNRL Primrose East 641S Gas	New ISD of Jan-2025 from Jun-2024
Fortis Moon Lake DER Solar	New ISD of Jul-2024 from May-2024
Fortis Stony Plain 434S DER Solar	New ISD of Jul-2024 from May-2024
Aura Peace Butte Solar Battery	New ISD of Jan-2026 from Apr-2024
Wapiti 823S DER Gas	New ISD of Sep-2024 from Apr-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 2,048 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
Capital Power	CP Genesee Unit 7 Gas	Gas	411	May-24
Shell	Shell SR Scotford Solar	Solar	58	Jun-24
RESC	AECG Forty Mile MPC Wind	Wind	266	Jun-24
Concord	Vulcan 255S DER Battery	Storage	15	Jun-24
Concord	Coaldale 254S DER Battery	Storage	15	Jun-24
Suncor	Suncor Base Plant Cogen	Cogen	403	Jun-24*
Capital Power	CP Genesee Unit 1 Repower ST	Gas	55	Jul-24
Suncor	Suncor Base Plant Cogen	Cogen	403	Jul-24*
Voltarix	Fortis Moon Lake DER Solar	Solar	18	Jul-24
Voltarix	Fortis Stony Plain 434S DER Solar	Solar	18	Jul-24
RESC	RESC Big Sky Solar	Solar	140	Aug-24
Journey Energy	Rimbey 297S DER Gas	Gas	15	Aug-24
Buffalo Plains wind farm	Buffalo Plains MPC Wind	Wind	466	Aug-24
Capstone	Wild Rose 2 Wind Farm	Wind	192	Sep-24
ATCO	ATCO Ethel Lake 717S DER Wasteheat	Gas	19	Sep-24
Acestes	Fortis Duchess 339S DER Solar	Solar	20	Sep-24
Capital Power	CP Genesee 2 Repower ST	Gas	55	Sep-24

COL	COL Chinook 181S DER Solar	Solar	9	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	Fortis Tilley 498S DER Solar	Solar	24	Oct-24
Fortis	Fortis Tilley 498S DER Solar	Storage	8	Oct-24
Fortis	FortisAlberta Gleichen DG Solar	Solar	13	Oct-24
EDTI	EDTI Edmonton 3 H2 Plant Cogen	Cogen	100	Nov-24
Aura Power	Fortis Aura Provost DER Solar	Solar	22	Nov-24
Fortis	FortisAlberta Bassano 435S DER Solar	Solar	10	Nov-24
Voltarix	Fortis Buford 538S DER Solar	Solar	18	Nov-24
Kiwetinohk	Kiwetinohk Opal Gas	Gas	101	Dec-24
Solar Krafte	Solar Krafte Brooks (RWE Beargrass)	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
Fortis	FortisAlberta Metiskow 648S DER Solar	Solar	22	Dec-24
Fortis	FortisAlberta Metiskow 648S DER Solar	Storage	22	Dec-24
ATCO	ATCO Bullpound 803S DER Solar	Solar	14	Dec-24
ATCO	ATCO Anderson 801S DER Solar	Solar	13	Jan-25
Fortis	FortisAlberta Killarney Lake 267S DER Solar/Battery Storage	Solar	22	Jan-25
Fortis	FortisAlberta Killarney Lake 267S DER Solar/Battery Storage	Storage	22	Jan-25
CNRL	CNRL Primrose East 641S Gas	Gas	32	Jan-25
TCE	TCE Saddlebrook Solar Storage	Storage	6.5	May-25
Dunmore Solar Inc.	Dunmore Solar	Solar	216	May-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
ENMAX	ENMAX FMC Change	Cogen	18	Oct-25
ENMAX	ENMAX FMC DER Cogen	Cogen	7	Oct-25
Solar Krafte	Solar Krafte Vauxhall	Solar	60	Dec-25
PACE Canada LP	Sundre 575S DER Solar	Solar	15	Jan-26
Georgetown Solar Inc.	Georgetown Solar	Solar	230	Nov-26
ENGIE	ENGIE Buffalo Trail North Wind	Wind	200	Jan-28
Total (MW)			5,531	

*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
ATCO Power Corp	Barlow SS 24 DER Solar Modification	Solar	4	Jun-24
ATCO Power Corp	Deerfoot SS 24 DER Solar Modification	Solar	4	Jun-24
Capital Power	Capital Power Halkirk 2 Wind	Wind	150	Aug-24
Keyera Corporation	Wapiti 823S DER Gas	Gas	30	Sep-24
TransAlta	TransAlta Tempest MPC Wind	Wind	100	Sep-24
Greengate	Luna MPC Solar Battery	Solar	465	Dec-24
Greengate	Luna MPC Solar Battery	Storage	80	Dec-24
RESC	RESC Nova MPC Solar	Solar	150	Jan-25
EDF	EDF Bull Trail Wind	Wind	300	May-25
Aira Wind Power Inc.	Aira Solar	Solar	450	May-25
Greencells	Greencells Estuary Solar	Solar	200	Jun-25
Future Energy Park	SS-37 DER Gas	Gas	30	Jun-25
Acestes Power ULC	East Camrose 285S DER Solar Battery	Solar	23	Aug-25
Pteragen	Pteragen Peace Butte Wind	Wind	122	Aug-25
Airport City Solar East Ltd.	Devon 14S DER Solar	Solar	21	Nov-25
Greengate	Luna 2 MPC Solar Battery	Solar	465	Dec-25
Greengate	Luna 2 MPC Solar Battery	Storage	80	Dec-25
Aura Power	Aura Peace Butte Solar Battery	Solar	230	Jan-26
Aura Power	Aura Peace Butte Solar Battery	Storage	100	Jan-26

TransAlta Corporation	Pinnacle 1 & 2 Gas	Gas	45	Jan-26
Kiwetinohk	Kiwetinohk Homestead MPC Solar	Solar	400	Mar-26
Elemental Energy	High River 65S DER Solar	Solar	18	Apr-26
Prairie Lights Power	Grand Prairie MPC Gas	Gas	400	Jun-26
OEWFL	Old Elm Wind	Wind	60	Oct-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
Newbit Technology Inc.	Natural Gas-Fired Power Plant in Newell County	Gas	9	Jan-99
Fire Technology Corp	9.975-Megawatt Natural Gas Engine Generators	Gas	10	Jan-99
Saturn Power Inc.	Springbrook Solar Project	Solar	20	Jan-99
NU-E	Lethbridge 1 Solar Project	Solar	9	Jan-99
Concord	Drumheller Solar and Battery Storage Project	Solar	13	Jan-99
Renewable Energy Services Ltd.	McLaughlin Wind Power Plant	Wind	46	Jan-99
2289994 Alberta Inc.	SunAlta Solar PV1 Power Plant	Solar	9	Jan-99
Tidewater Midstream	Brazeau Cogeneration	Gas	16	Jan-99
Journey Energy	Gilby Thermal power plant	Gas	15	Jan-99
Versorium	Versorium Gas	Gas	5	Jan-99
WCSB Blockchain Infrastructure Ltd.	Ram River Isolated Power Plant	Gas	84	Jan-99
Big Marble Farm	Big Marble Farms Power Plant Backup	Gas	12	Jan-99
IPC Canada Ltd.	Blackrod Cogeneration Power Plant	Gas	33	Jan-99
CT Mining Inc.	CT Mining Gas	Gas	7	Jan-99
Northstone Power Corp.	Elmworth Generation Station	Gas	9	Jan-99
Rustad Energy Ltd.	Rocky 5 Bitcoin Mining Power Plant	Gas	60	Jan-99
Rustad Energy Ltd.	Rocky Power Plant and Rocky 2 Power Plant	Gas	8	Jan-99

Alberta Pacific Forest Industries Inc.	Al-Pac Power Plant	Biomass	17	Jan-99
Dow Chemical Canada ULC	Fort Saskatchewan Path2Zero Power Plant	Gas	140	Jan-99
CSV Midstream Solutions Corp	Albright Power Plant	Cogen	7	Jan-99
Athill Tech Solution Ltd.	9.97-Megawatt Natural Gas-Fired Power Plant	Other	10	Jan-99
Versorium Energy Ltd.	5.044-Megawatt Rangeland 1	Gas	5	Jan-99
Atland Tech Solution Ltd.	9.97-Megawatt Gas-Fired Power Plant	Gas	10	Jan-99
Total (MW)			4,937	

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
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
Enfinite	Enfinite Bowmanton MPC Battery	Storage	100	Sep-24
Enfinite	Enfinite Foothills MPC Battery	Storage	100	Sep-24
Cache	Rising Sun Solar	Solar	125	Sep-24
TA	TA Alberta Hydro WaterCharger Battery	Storage	180	Oct-24
Capital Power (CBEC) L.P.	Clover Bar #2 Modification	Gas	9	Oct-24
Capital Power (CBEC) L.P.	Clover Bar #3 Modification	Gas	9	Oct-24
HEP Energy	hep Energy Alderson MPC Solar	Solar	100	Dec-24
Journey Energy Inc.	High River 65S DER Gas	Gas	16	Dec-24
TA	Sunhills Solar	Solar	130	Dec-24
IRRICAN Power Ltd.	Raymond Reservoir Battery	STS	15	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
Universal Kraft	UK Solar East	Solar	400	Jan-25
Dolcy	Dolcy Solar Battery	Solar	250	Feb-25
Dolcy	Dolcy Solar Battery	Storage	100	Feb-25
ATCO	ENMAX SS-24 DER Battery	Storage	21	Feb-25
Pembina Gas	Kaybob South 3 Cogen	Cogen	33	Mar-25
BER Hand Hills Wind LP	Hand Hills Battery	Storage	10	Mar-25
Phoenix	Phoenix MPC Solar	Solar	299	Mar-25
Pengrowth	Cold Lake Area Energy Centre	Cogen	100	Apr-25
Lethbridge Two Solar Corp.	Riverbend 618S DER Solar	Solar	17	Apr-25
Georgetown Solar Inc.	Georgetown Battery Addition	Storage	100	Apr-25
Enerfin	Big Rock Solar Battery	Solar	100	Jun-25
Enerfin	Big Rock Solar Battery	Storage	40	Jun-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
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 CONSULTING LTD	Alderson Solar & Wind	Solar	200	Jul-25
STANTEC CONSULTING LTD	Alderson Solar & Wind	Wind	450	Jul-25
TransAlta	TransAlta Red Rock MPC Wind	Wind	100	Jul-25
Kiwetinohk	Kiwetinohk Flipi MPC Gas	Gas	444	Aug-25

Acestes Power ULC	East Camrose 285S DER Solar Battery	Storage	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	Aug-25
Oqin Solar Canada Inc	Silver Creek Solar	Solar	96	Aug-25
ENGIE	ENGIE Duchess Solar	Solar	90	Sep-25
2365921 Alberta Ltd.	Coaldale 254S DER Solar & Wind	Wind	12	Sep-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
PR	PR Prominence Solar	Solar	80	Sep-25
HEP Canada SPV3 Ltd.	Carseland 525S DER Solar	Solar	22	Sep-25
Joss Wind	Northern Lights WAGF	Wind	400	Sep-25
ABO	Smoky River MPC Wind	Wind	160	Oct-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
Warwick Gas Storage LP	Vegreville 709S DER Battery	Storage	11	Oct-25
Cascade Power Project LP	Cascade Gas	Gas	32	Oct-25
Abacus Power Ltd.	Three Hills 770S DER Solar	Solar	18	Oct-25
Capital Power	Capital Power Aldersyde Solar	Solar	200	Oct-25
PACE Canada LP	Tucuman 478S DER Solar Battery	Solar	15	Oct-25
PACE Canada LP	Tucuman 478S DER Solar Battery	Storage	7	Oct-25
Kiwetinohk	Kiwetinohk Granum MPC Solar	Solar	400	Nov-25

Kiwetinohk	Springbrook Solar	Solar	300	Nov-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	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	40	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
2539613 Ontario Inc.	Lacuna MPC Battery	Storage	465	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
PACE Canada LP	Wainwright 51S DER Solar Battery	Solar	14	Jan-26
PACE Canada LP	Wainwright 51S DER Solar Battery	Storage	7	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
RESC	RESC Oyen Wind	Wind	250	Feb-26
Kiwetinohk	Little Flipi MPC Gas	Gas	120	Mar-26

Black Diamond Renewable Energy Corporation	Eagle Butte Wind	Wind	200	Mar-26
TransAlta	TransAlta Riplinger MPC Wind	Wind	300	Mar-26
Axiom Infrastructure Canada II LP	Travers Battery	Storage	99	Mar-26
Grounded Technical Solutions Ltd.	Keystone 384S DER Gas	Gas	21	Mar-26
ABO	ABO Fox Meadows Wind	Wind	200	Apr-26
AECO Gas Storage Partnership	Hussar 431S Battery	Storage	40	Apr-26
Proteus Alberta Solar Ltd.	Hays 421S DER Solar	Solar	45	Apr-26
Universal Kraft Renewables Ltd	Sturgeon 734S DER Solar	Solar	24	May-26
EDP Renewables	Arenosum Solar	Solar	150	May-26
Solar Krafte	Kinbrook MPC Solar	Solar	450	Jun-26
CP	CP Rolling Hills Wind	Wind	190	Jun-26
SWITCH Power	Cypress North DER Solar	Solar	16	Jun-26
Paul Solar Limited Partnership (Paul Solar (GP) Inc.)	Paul Band Solar	Solar	37	Jun-26
SWITCH Power	Suffield 895S DER Solar	Solar	22	Jun-26
PACE Canada LP	Harvest Sky MPC Solar	Solar	25	Jun-26
Spirit Pine	Lone Pine MPC Wind	Wind	173	Jul-26
Heidelberg Materials Canada	Edmonton CCUS Gas	Gas	130	Jul-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	Jul-26
Pembina Empress NGL Partnership	Empress Battery	Storage	23	Jul-26
Piikani Resource Development Ltd.	Piikani Wind	Wind	153	Jul-26
ATCO Power (2010) Ltd.	Craig Lake Wind	Wind	246	Aug-26
Saamis Solar Park Ltd.	Saamis Solar	Solar	325	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	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	Nov-26
Obton Solar Canada Inc.	Vilna 777S DER Solar	Storage	30	Nov-26
Obton Solar Canada Inc.	Coronation 773S DER Solar	Solar	20	Nov-26
Obton Solar Canada Inc.	Coronation 773S DER Solar	Storage	20	Nov-26
Clem	Sunrise Solar	Solar	75	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

Plains Midstream Canada ULC	Plains Empress Cogen	Cogen	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	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
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	62	Sep-27
Federation Group Inc.	Marguerite Lake CAE Storage	Storage	320	Sep-27
ESI	Eastervale Solar Battery	Solar	300	Oct-27
ESI	Eastervale Solar Battery	Storage	200	Oct-27
Universal Kraft Canada Inc.	UK LS2 MPC Solar	Solar	169	Nov-27

Pembina Pipeline Corporation	LCHA MPC Cogen CO2	Cogen	21	Dec-27
Enbridge Power Development Canada Inc.	Torlea Flats Wind	Wind	250	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	Greenlight Gas	Gas	466	Jun-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
ATCO Power (2010) Ltd.	Kitscoty Wind	Wind	174	Aug-28
Axiom Infrastructure Canada II LP	Travers MPC Solar	Solar	123	Aug-28
Total (MW)			28,319	

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

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

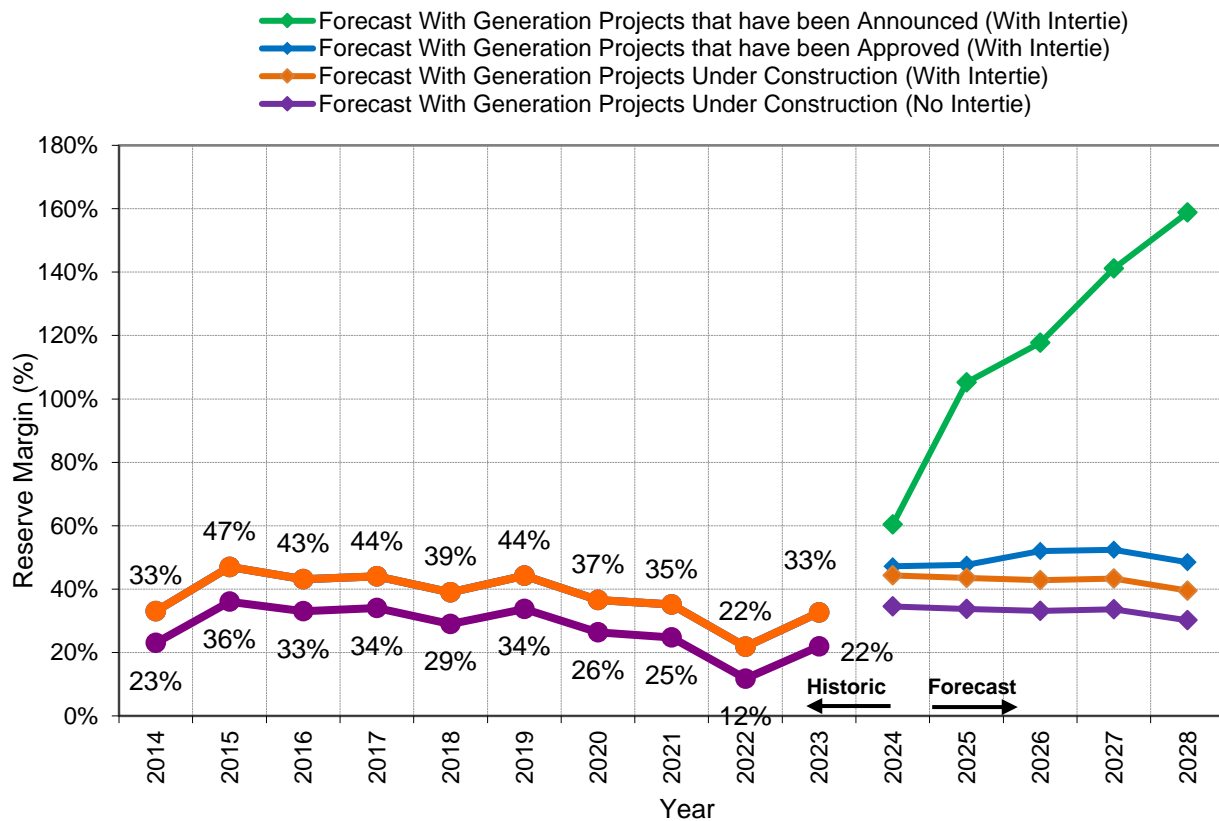
Table 5: Summary of installed capacity of renewable generation and storage projects

Stage	Solar (MW)	Wind (MW)	Storage (MW)
Operational	1,650	4,481	190
Under construction	1,884	1,408	170
Received AUC approval	2,711	732	435
Announced	13,882	5,060	5,673
Total	20,127	11,681	6,468
2-Year Average Alberta Internal Load (AIL) Forecast	10,239		

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, May 1, 2024, to April 30, 2026

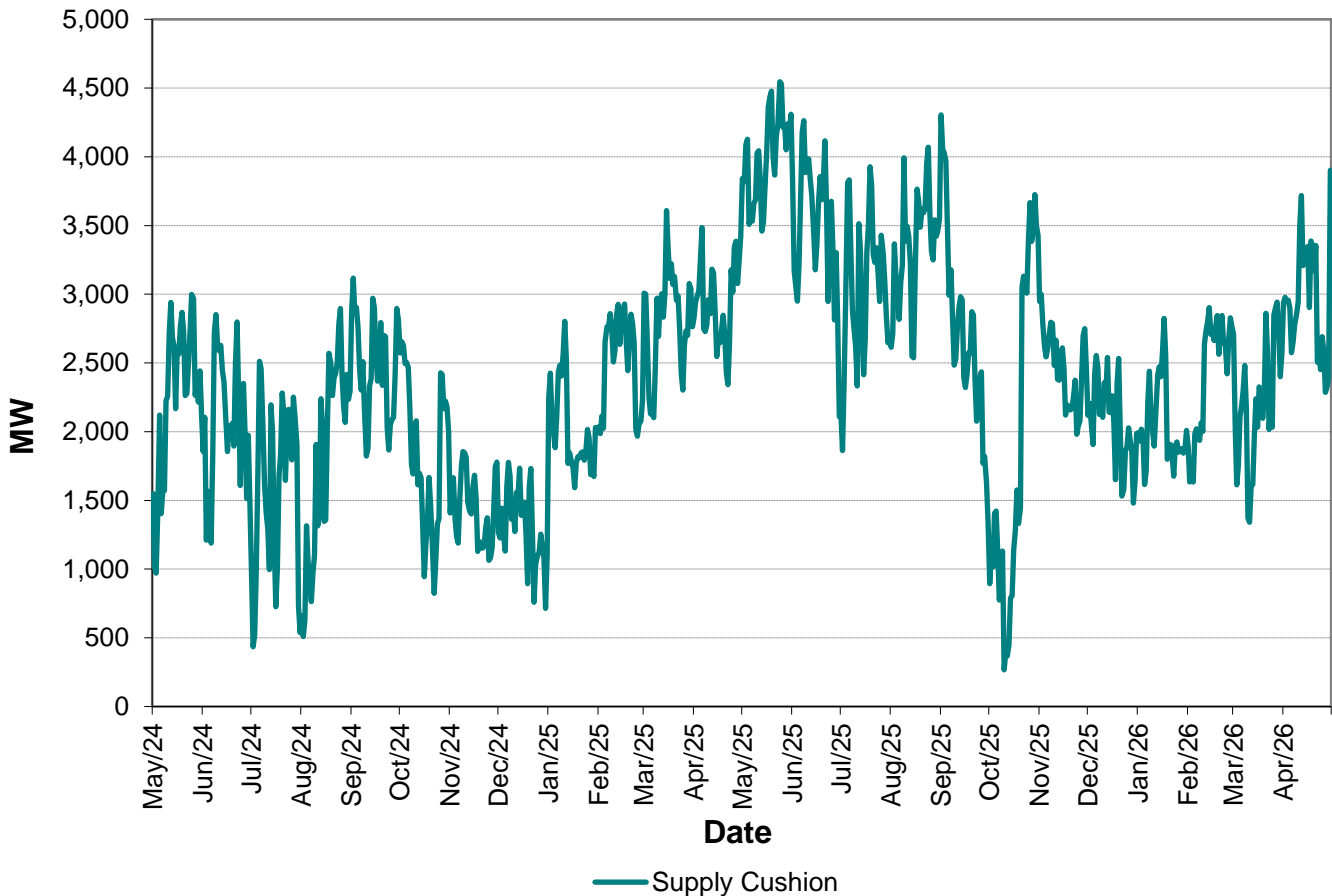
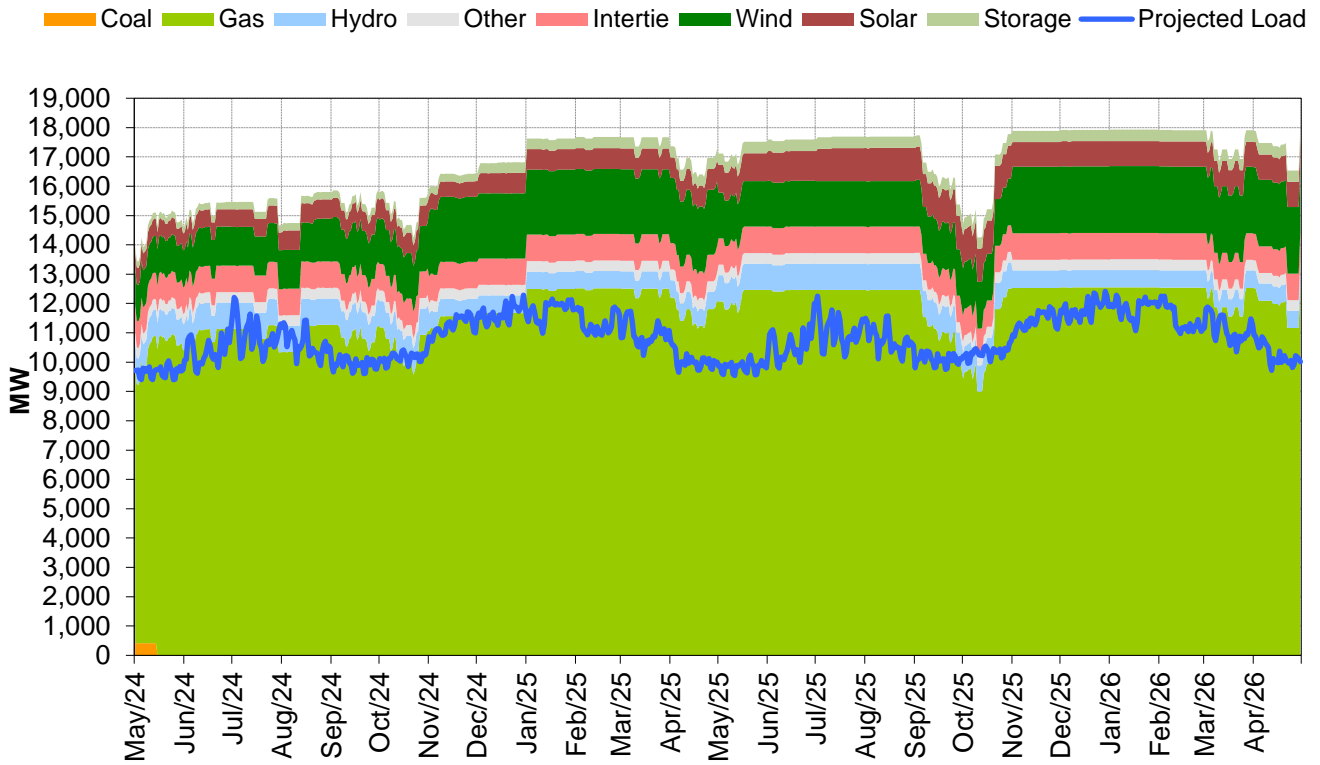


Figure 3: Alberta Internal Load (AIL) Daily Peak Demand and Available Supply May 1, 2024, to April 30, 2026



Outage information as of Apr 18, 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 **2,048 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, May 1, 2024, to April 30, 2026

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