transcita Investor Presentation March 2025

Forward-looking statements and non-IFRS measures

This presentation includes "forward-looking information," within the meaning of applicable Canadian securities laws, and "forward-looking statements," within the meaning of applicable United States securities laws, including the Private Securities Litigation Reform Act of 1995 (collectively referred to herein as "forward-looking statements"). Forward-looking statements are not facts, but only predictions and generally can be identified by the use of statements that include phrases such as "may", "will", "can", "could", "would", "shall", "believe", "expect", "estimate", "anticipate", "intend", "plan", "forecast", "foresee", "potential", "enable", "continue" or other comparable terminology. These statements are not guarantees of our future performance, events or results and are subject to risks, uncertainties and other important factors that could cause our actual performance, events or results to be materially different from those set out in or implied by the forward-looking statements. In particular, this presentation contains forward-looking statements about the following, among other things: the strategic objectives of the Company and that the execution of the Company's strategy will realize value for shareholders; our capital allocation and financing strategy; our sustainability goals and targets, including those in our 2024 Sustainability Report; our 2025 Outlook; our financial and operational performance, including our hedge position; optimizing and diversifying our existing assets; the increasingly contracted nature of our fleet; expectations about strategies for growth and expansion, including opportunities for Centralia redevelopment, and data centre opportunities; expected costs and schedules for planned projects; expected regulatory processes and outcomes, including in relation to the Alberta restructured energy market; the power generation industry and the supply and demand of electricity; the cyclicality of our business; expected outcomes with respect to legal proceedings; the expected impact of future tax and accounting changes; and expected industry, market and economic conditions.

The forward-looking statements contained in this presentation are based on many assumptions including, but not limited to, the following: no significant changes to applicable laws and regulations; no unexpected delays in obtaining required regulatory approvals; no material adverse impacts to investment and credit markets; no significant changes to power price and hedging assumptions; no significant changes to gas commodity price assumptions and transport costs; no significant changes to interest rates; no significant changes to the demand and growth of renewables generation; no significant changes to the integrity and reliability of our facilities; no significant changes to the Company's debt and credit ratings; no unforeseen changes to economic and market conditions; and no significant event occurring outside the ordinary course of business.

These assumptions are based on information currently available to TransAlta, including information obtained from third-party sources. Actual results may

differ materially from those predicted. Factors that may adversely impact what is expressed or implied by forward-looking statements contained in this presentation include, but are not limited to: fluctuations in power prices; changes in supply and demand for electricity; our ability to contract our electricity generation for prices that will provide expected returns; our ability to replace contracts as they expire; risks associated with development projects and acquisitions; any difficulty raising needed capital in the future on reasonable terms or at all; our ability to achieve our targets relating to ESG; long-term commitments on gas transportation capacity that may not be fully utilized over time; changes to the legislative, regulatory and political environments; environmental requirements and changes in, or liabilities under, these requirements; operational risks involving our facilities, including unplanned outages and equipment failure; disruptions in the transmission and distribution of electricity; reductions in production; impairments and/or writedowns of assets; adverse impacts on our information technology systems and our internal control systems, including increased cybersecurity threats; commodity risk management and energy trading risks; reduced labour availability and ability to continue to staff our operations and facilities; disruptions to our supply chains; climate-change related risks; reductions to our generating units' relative efficiency or capacity factors; general economic risks, including deterioration of equity and debt markets, increasing interest rates or rising inflation; general domestic and international economic and political developments, including potential trade tariffs; industry risk and competition; counterparty credit risk; inadequacy or unavailability of insurance coverage; increases in the Company's income taxes and any risk of reassessments; legal, regulatory and contractual disputes and proceedings involving the Company; reliance on key personnel; and labour relations matters.

The foregoing risk factors, among others, are described in further detail under the heading "Governance and Risk Management" in the MD&A. Readers are urged to consider these factors carefully when evaluating the forward-looking statements and are cautioned not to place undue reliance on them. The forward-looking statements included in this presentation are made only as of the date hereof and we do not undertake to publicly update these forwardlooking statements to reflect new information, future events or otherwise, except as required by applicable laws. The purpose of the financial outlooks contained herein is to give the reader information about management's current expectations and plans and readers are cautioned that such information may not be appropriate for other purposes.

Certain financial information contained in this presentation, including Adjusted EBITDA, Annual Average EBITDA, Free Cash Flow ("FCF"), FCF per share do not have standardized meanings as prescribed by International Financial Reporting

Standards ("IFRS") and therefore may not be comparable to similar measures presented by other entities. The most directly comparable measures presented in the financial statements are: (i) in respect of Adjusted EBITDA and Annual Average EBITDA, earnings before income taxes; and (ii) FCF and FCF per share, Cash Flow From Operating. These measures should not be considered in isolation or as a substitute for measures prepared in accordance with IFRS. Please refer to the "Additional IFRS Measures and Non-IFRS Measures" and "Key Non-IFRS Financial Ratios" sections of MD&A, for further discussion of these items, including, where applicable, reconciliations to measures calculated in accordance with IFRS. The purpose of the financial outlooks contained herein are to give the reader information about management's current expectations and plans and readers are cautioned that such information may not be appropriate for other purposes and that such outlooks is given as of the date of this presentation. The Company is not making any offer or invitation of any kind by communication of this document to the recipient and under no circumstances is it to be construed as a prospectus or an advertisement.

All amounts referenced in this presentation are in Canadian currency unless otherwise specified.



TransAlta at a glance



\$8.5 billion Enterprise value¹

Strong balance sheet and capital discipline



114 years Generation experience

Foundation of our focused strategy

~9,000 MW Diversified portfolio

88 generating facilities in Canada, United States and Australia

~\$500 million 2025 expected free cash flow²



\$4.2 billion Market capitalization¹

Listed on the TSX and NYSE



1,450 Employees

Central to value creation

~50%

Adjusted EBITDA² attributable to renewables

Hydro and Wind and Solar fleet are core operations

3 ¹ Enterprise value and market capitalization calculated as of March 13, 2025.

²Adjusted EBITDA and FCF are non-IFRS measures, see the forward-looking statements and non-IFRS measures information on slide two of this presentation for more information..

transcita"



Well diversified portfolio of high-quality assets Stable contracted base with Alberta merchant upside



Fleet Overview







25 Facilities



Natural Gas 26 Facilities

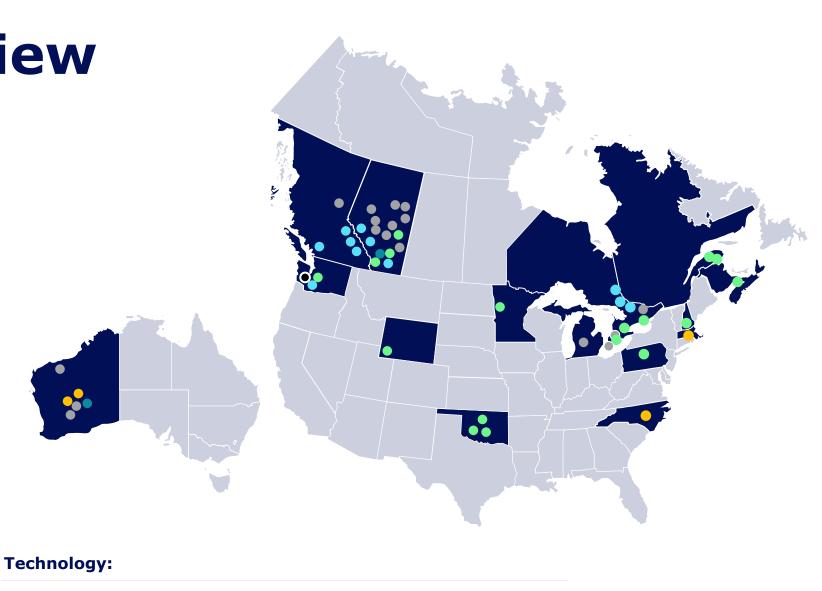
Solar

Hydro

Battery

Wind





Natural Gas

Coal

Strategic position strengthened since 2020

(MW)



¹ Adjusted EBITDA and FCF are non-IFRS measures, see the forward-looking statements and non-IFRS measures information on slide two of this presentation for more information.

²2020 Contractedness and Renewable Capacity have been adjusted to exclude TransAlta's non-controlling interest in TransAlta Renewables. 6 ³Emission reductions include Scope 1 and 2 greenhouse gas emissions but do not include emissions from assets acquired from Heartland Generation on Dec. 4, 2024. Free Cash Flow¹ increased by \$210 Million

Adjusted EBITDA¹ increased by \$330 Million

Contractedness^{1,2} increased by 2.8 GW

Emissions reduced by 6.8 million tonnes CO₂

Increased renewable capacity^{1,2} by **1.5 GW**

Strategic

priorities



Optimize Alberta portfolio



Execute Growth Plan



Realize the value of legacy generating facilities



Maintain financial strength and capital discipline



Define next generation of power solutions



Lead in ESG and market policy development



Keephills, Alberta



Portfolio is highly hedged and contracted in 2025



Of Alberta fleet revenue contracted or hedged

73%

Of US fleet revenue contracted or hedged

86%

Of Canadian fleet¹ revenue contracted

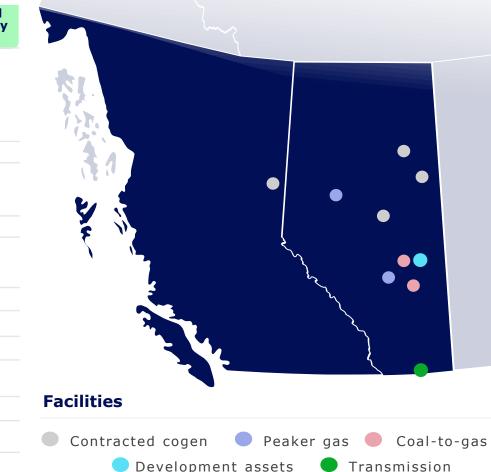
100% Of Australian fleet revenue contracted

~75% of generation revenue² is expected to come from contracted assets and hedging position

¹ Includes all Canadian assets outside of Alberta. 8 ² Based on 2025 guidance expectations. ³ As of December 31, 2024.

Heartland portfolio provides significant upside with reliability and contracted assets

| Facility | Туре | Contracted Capacity | Gross Capacity (MW) | Owned Capacity (MW) |
|---|--------------|------------------------|---------------------------|---------------------------|
| Muskeg River | Cogen | 85% | 202 | 202 |
| Scotford | Cogen | 54% | 195 | 195 |
| McMahon | Cogen | 100% | 120 | 60 |
| Primrose | Cogen | 100% | 100 | 50 |
| Contracted Cogen | | | 617 | 507 |
| Joffre | Cogen | ~26% | 474 | 190 |
| Valleyview 1&2 | OCGT | 0% | 100 | 100 |
| Peaker Gas | | | 574 | 290 |
| Sheerness 1&24 | CTG | 0% | 800 | 400 |
| Battle River 4&5 | CTG | 0% | 550 | 550 |
| Coal-to-Gas Units | | | 1,350 | 950 |
| Total | | | 2,541 | 1,747 |
| Transmission Montana Alberta Tie Line Capacity Contract | Transmission | - | 200 | 200 |
| Development A | ssets | | | |
| Battle River Carbon Hub | Hydrogen | - | 400 | 400 |



5.4x adjusted EBITDA multiple¹

~\$270 per kW³, significantly lower than new build

~\$85-\$90 million annual average adjusted EBITDA² contribution

~60% contracted revenue, 15-year average contract life

Closed Dec. 4, 2024

1 Adjusted EBITDA multiple is a metric calculated by dividing expected capital expenditures by expected average annual adjusted EBITDA. Readers are cautioned that our method for calculating adjusted EBITDA multiple may differ from methods used by other entities. Therefore, it may not be comparable to similar measures presented by other entities.

2 Average annual EBITDA is a non-IFRS measure, see the forward-looking statements and non-IFRS measures information on slide two of this presentation for more information. 3 kW is an abbreviation of kilowatt.

4 Owned capacity does not include the portion of Sheerness that TransAlta Cogeneration owns.

Centralia

Centralia, Washington

Valuable redevelopment opportunities for existing infrastructure and land base

| Attractive risk-adjusted | Location | Centralia, WA |
|-----------------------------|----------------------------|--|
| returns and build multiples | Potential Fuel | Gas, Wind, Solar, Battery, New Technology |
| Highly contracted cash flow | Potential Contract Type | Long-term |
| | Size | 500-1,000 MW |
| Advances TransAlta's | COD | 2027+ |
| customer-centred approach | Owned Land | ~12,000 acres |

Pursuing multiple options for Centralia redevelopment



Potential to surface significant value through existing infrastructure

TransAlta has entered Keephills into the interconnection queue

Keephills, Alberta 12

Three phased approach to data centre development



Socialization

Engage potential customers and gauge interest

Phase 2

Technical

Development of technical specifications and advancement of sites

Current phase

Phase 3



Contracting with highquality counterparties

Commercialization



TransAlta offers attractive locations for data centres



Alberta positioned to deliver latency under 75ms for most of Canada and the US



¹ Network latency is the amount of time it takes for data to travel from a data centre to an end user (i.e., consumer or commercial internet user), measured in milliseconds ("ms") with a low (fast) latency being more desirable; latencies vary by location of fibre optic lines and are not directly correlated with distance. Sourced from Boston Consulting Group.

Our competitive advantage



Owner / operational excellence



Optimization and trading excellence



Strong balance sheet



Local presence



Full life cycle capabilities and risk control



Strong customer relationships



Demonstrated ESG results





Sustainability targets



Environmental goals



Social goals



Governance goals

Net zero by 2045

Reduce GHG emissions by **75%** by **2026**¹

Reduce GHG emissions intensity by 30% by 2030²

End coal generation in US by 2025

Support for **indigenous** communities

Reclaim mined land in Alberta and Washington State

Achieve a Total Recordable Injury Frequency rate of **0.0** 50% female Board representation by 2030

40% company-wide female employment by 2030

Leadership on ESG reporting within financial disclosures



2024 performance

Horseshoe, Alberta

2024 delivered solid results in an evolving landscape





TransAlta segmented results

Year and three months ended December 31, 2024

(\$millions)

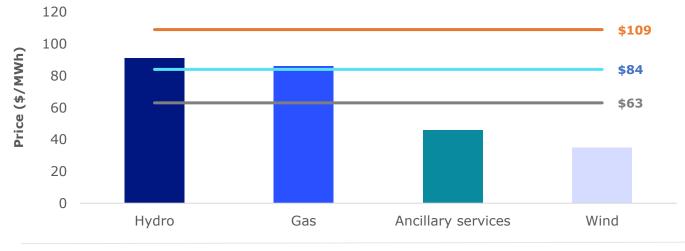
| 2024 | 2023 | Adjusted EBITDA ¹ | Q4 2024 | Q4 2023 |
|-------|-------|------------------------------|---------|---------|
| 316 | 459 | Hydro | 57 | 56 |
| 316 | 257 | Wind and Solar | 95 | 82 |
| 535 | 801 | Gas | 116 | 141 |
| 91 | 122 | Energy Transition | 28 | 26 |
| 131 | 109 | Energy Marketing | 27 | 14 |
| (136) | (116) | Corporate | (38) | (30) |
| 1,253 | 1,632 | Total | 285 | 289 |

Strong operating and financial performance

18 ¹ Adjusted EBITDA is a non-IFRS measure, see the forward-looking statements and non-IFRS measures information on slide two of this presentation for more information.

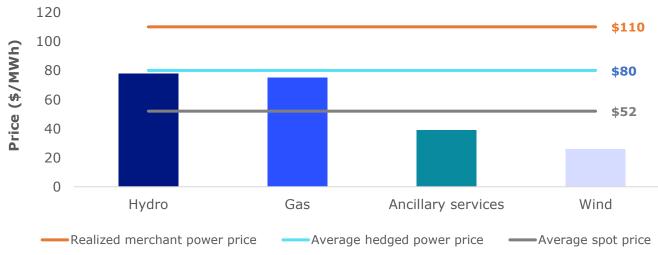
Realized significant premiums in Alberta

2024 full year prices



174% realized premium to spot price1144% Hydro premium to spot price2137% Gas premium to spot price273% Ancillary services to spot price

2024 Q4 prices

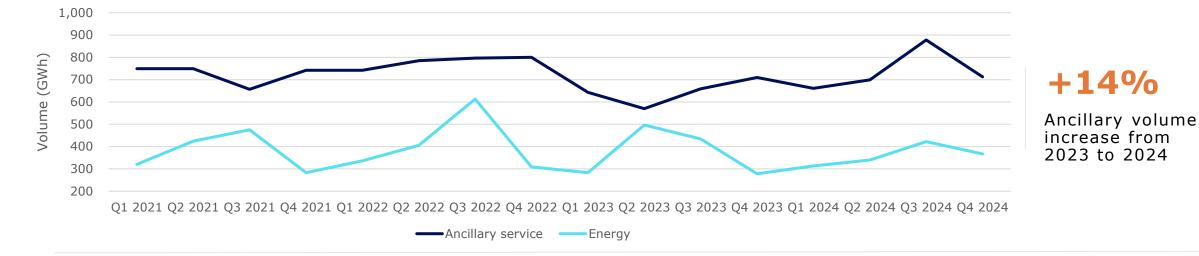


212% realized premium to spot price¹ 150% Hydro premium to spot price² 144% Gas premium to spot price² 75% Ancillary services to spot price



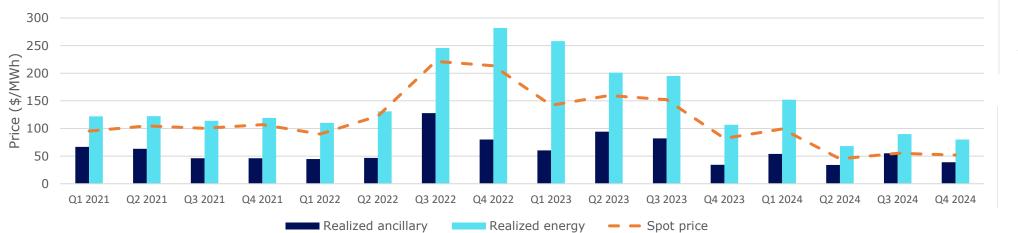
19 ¹ Realized merchant power price for the Alberta electricity portfolio is the average price realized as a result of the Company's merchant power sales and portfolio optimization activities (excluding assets under long-term contract and ancillary revenues) divided by total merchant GWh produced. ² Excludes gains and losses from hedging positions.

Hydro ancillary services provide stability



Alberta hydro fleet volumes (GWh)





53%¹

Average realized ancillary price to spot

130%¹

Average realized energy price premium to spot



2025 outlook

Windrise, Alberta



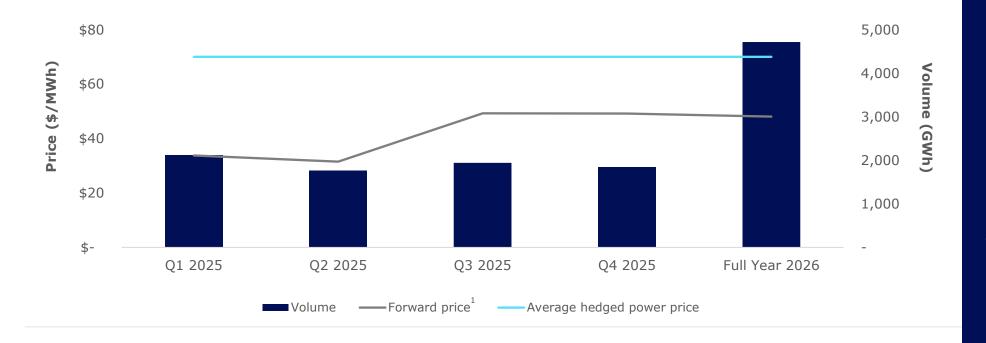
2025 guidance

| (\$ millions) | 2025 Outlook |
|-----------------------------------|------------------|
| Adjusted EBITDA ¹ | 1,150 to 1,250 |
| FCF ¹ | 450 to 550 |
| FCF/share (\$/share) ¹ | \$1.51 to \$1.85 |
| Energy Marketing Gross Margin | 110 to 130 |
| Sustaining Capital | 145 to 165 |
| Market | 2025 Outlook |
| Alberta Spot (\$/MWh) | 40 to 60 |
| Mid-C Spot (US\$/MWh) | 50 to 70 |
| AECO Gas Price (\$/GJ) | 1.60 to 2.10 |

Reflects strong hedged position and contracted cash flows

22 ¹ Adjusted EBITDA is a non-IFRS measure, see the forward-looking statements and non-IFRS measures information on slide two of this presentation for more information.

Strong hedge position in Alberta



| | Q1 2025 | Q2 2025 | Q3 2025 | Q4 2025 | Full year 2026 |
|-------------------------|---------|---------|---------|---------|-------------------|
| Price (\$/MWh) | 72 | 70 | 70 | 70 | 75 |
| Volume² (GWh) | 2,117 | 1,758 | 1,942 | 1,845 | 4,713 |

Hedged power prices above forward curve

\$1 per MWh change in spot price ~\$3 million impact on adjusted EBITDA³

¹ As of February 20, 2025.

² C&I and financial hedges; excludes capacity contract.

³ Adjusted EBITDA is a non-IFRS measure, see the forward-looking statements and non-IFRS measures information on slide two of this presentation for more information.

2025 in-year priorities

Windrise, Alberta

2025 priorities



Safety, people and culture



Improve leading and lagging safety performance

Advance leadership and talent development

Continue progress towards 40% gender diversity target by 2030



Deliver adjusted EBITDA¹ of **\$1.15 - \$1.25 billion**

Deliver FCF¹ of **\$450 - \$550 million**

Maintain strong balance sheet and credit ratings

Achieve fleet availability of **91.8%**

Strategic initiatives

Maximize value of legacy thermal energy campuses

Successfully integrate Heartland Generation

Execute strategic M&A and advance Growth Plan

Implement our new **ERP system**

Develop comprehensive funding plan to facilitate growth

Progress CO₂ emissions reduction to 75% from 2015 levels by 2026

Delivering operational excellence and executing strategic initiatives

25 ¹ Adjusted EBITDA and FCF are non-IFRS measures, see the forward-looking statements and non-IFRS measures information on slide two of this presentation for more information

Alberta market evolution

Big Horn, Alberta

Alberta business



Maximize

shareholder returns through active management of our diversified merchant portfolio



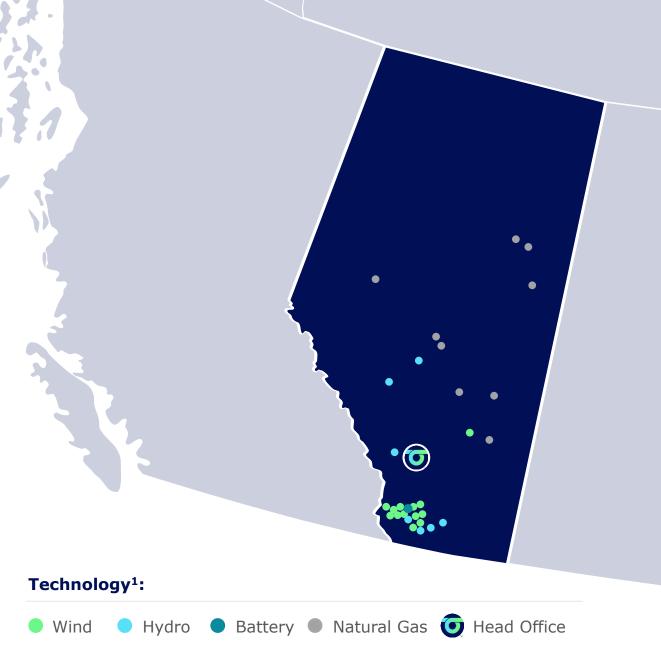
Provide

dynamic, cost-effective and low-carbon **solutions** to meet **customer power demand and ESG goals**



Identify

and evaluate market and technological sources for **long-term growth**





Hedging and optimization increases our advantage

114-year extensive operating expertise

Exceptional in-house forecasting and analytical capabilities

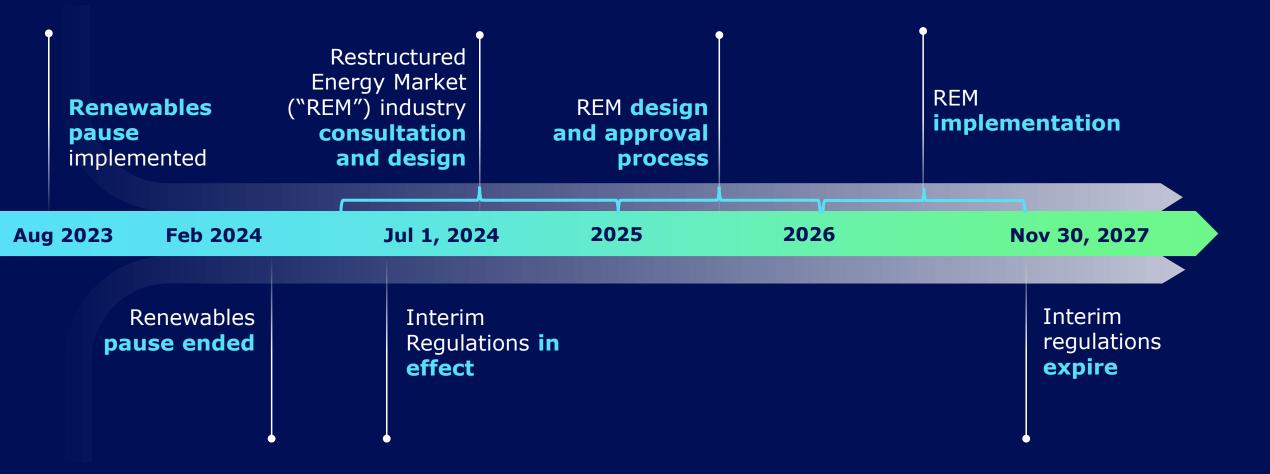
Integrated **asset optimization and operations** to ensure portfolio value maximization

Large customer base spanning the wholesale, commercial and industrial base





Alberta regulatory change timeline





Alberta interim regulations

July 1, 2024 to November 30, 2027



Offer limit resets at start of every month

The long lead time assets would be compensated for variable costs net of revenues earned

б

Restructured Energy Market update

State of play



TransAlta's positioning

Mandatory day-ahead market

Strategic energy bidding mechanisms

Review of the current price ceiling and floor

Reduction of settlement windows

Dispatch optimization

Intertie expansion market participation options

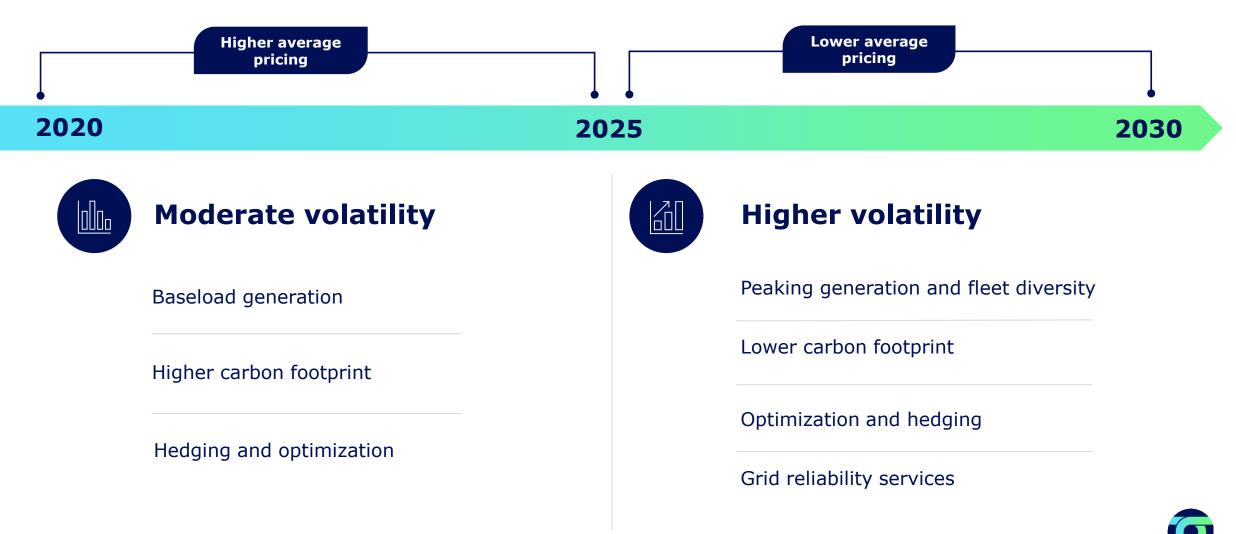
Changing energy landscape requires a longterm focus

Market redesign is necessary to deliver reliable, affordable electricity

Market will have to be incentivized to be effective

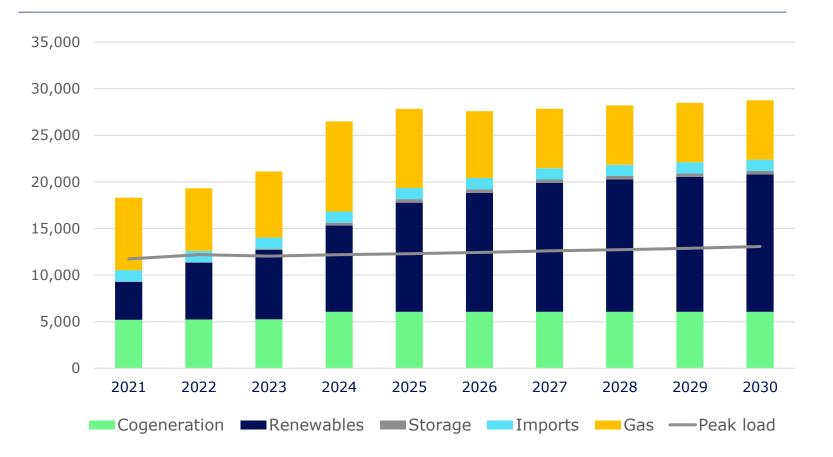
Market requires low-cost flexible generation for grid reliability

Merchant electricity market evolution



Major supply shift continues

Alberta installed capacity and peak load (MW)¹



+185%

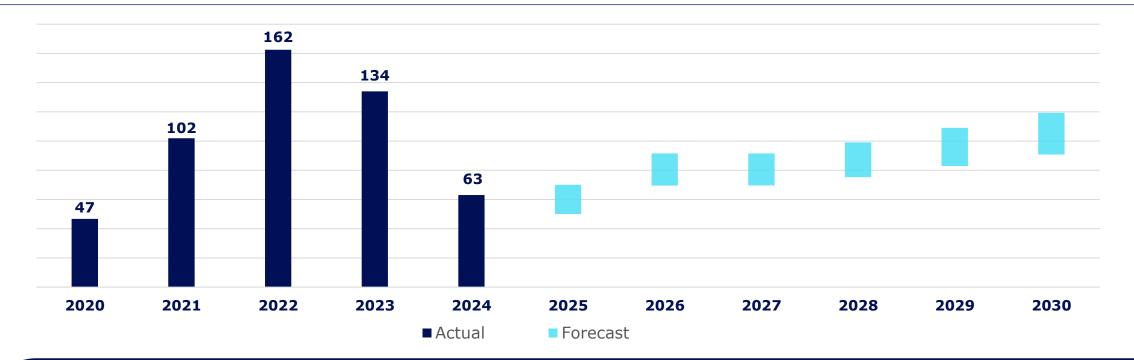
Expected supply growth in renewables

+140%

Expected supply growth in combined cycle gas

Prices expected to soften mid-decade with supply

Annual average power price forecast (\$ per MWh)¹

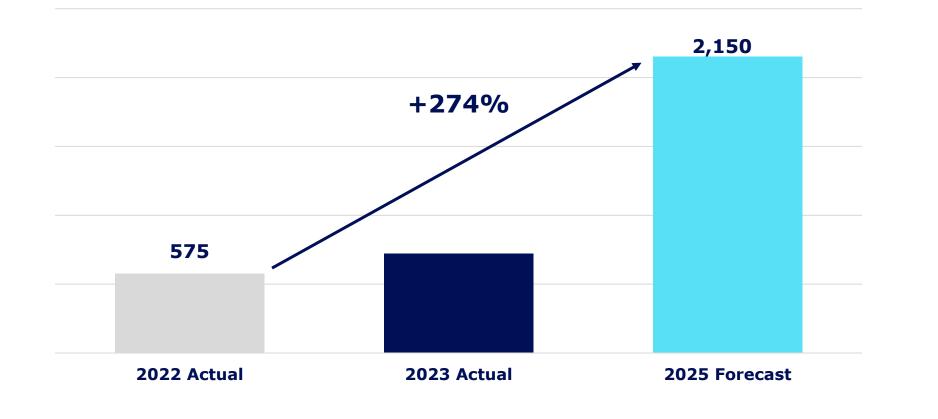


Prices to rebound later in the decade

34 ¹ Forecast is as of and sourced from TransAlta's 2023 Investor Day presentation, which can be found at <u>https://transalta.com/investors/presentations-and-events/</u>

Intraday volatility of renewable supply

Renewable generation - maximum hourly change (MW)¹

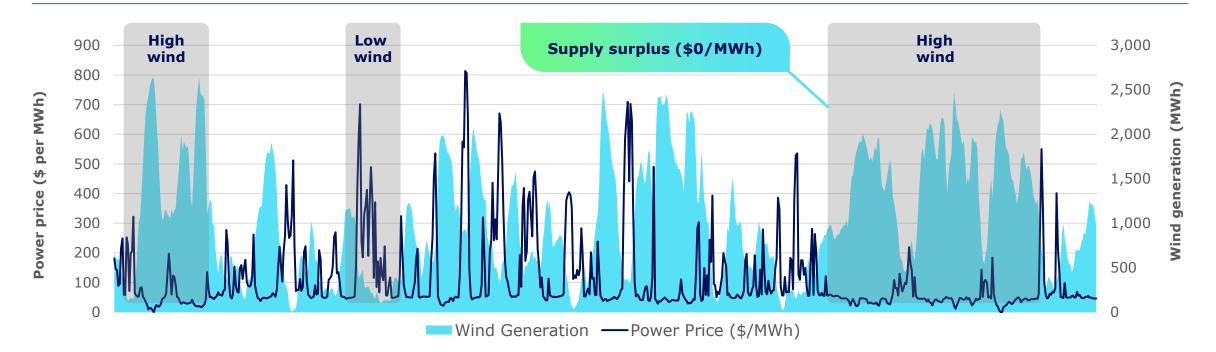


Increasing renewable generation will result in larger hour-to-hour changes in output

Challenging the reliability of the system

Wind penetration increases volatility in price

September 2023 wind generation and power price volatility¹

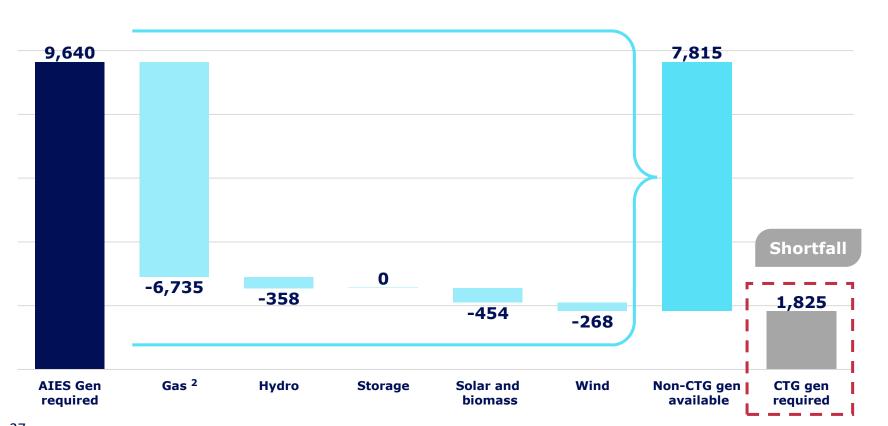


Low wind generation allows for higher prices, while high wind generation tends to drive lower pricing or even supply surplus conditions.



Thermal gas required when renewable resources are low

Estimated thermal gas generation required (MW)¹



Thermal gas capacity is required to meet Alberta demand and reliability

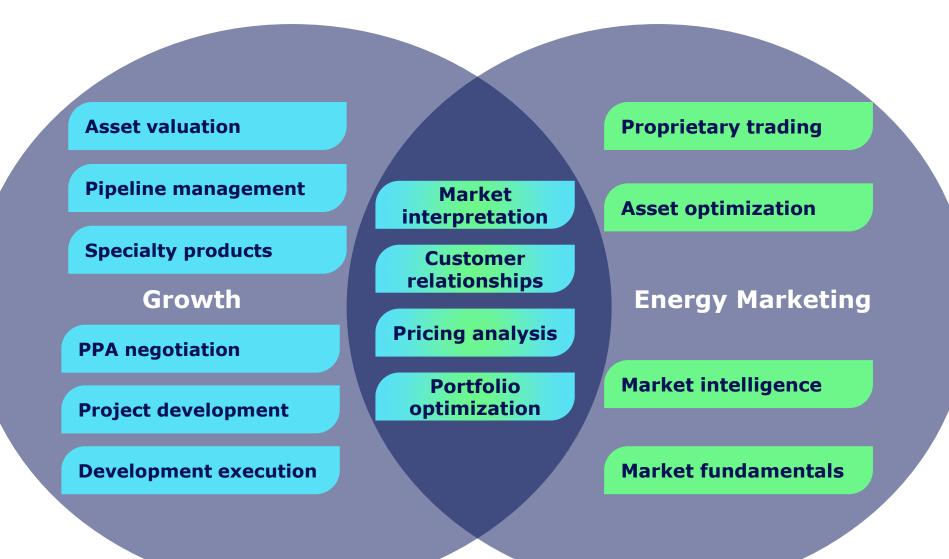
Province loses 5.5 GW of capacity on low renewableresource days¹

37 ¹ As of and sourced from TransAlta's 2023 Investor Day presentation, which can be found at <u>https://transalta.com/investors/presentations-and-events/</u> ² Includes cogen NTG, CCGT and SCGT

Enhancing Value with Energy Marketing

Le Nordias, Quebec

Aligning Growth and Energy Marketing



Aligned global team committed to accelerating value delivery of high-quality portfolio through cross-team enablement

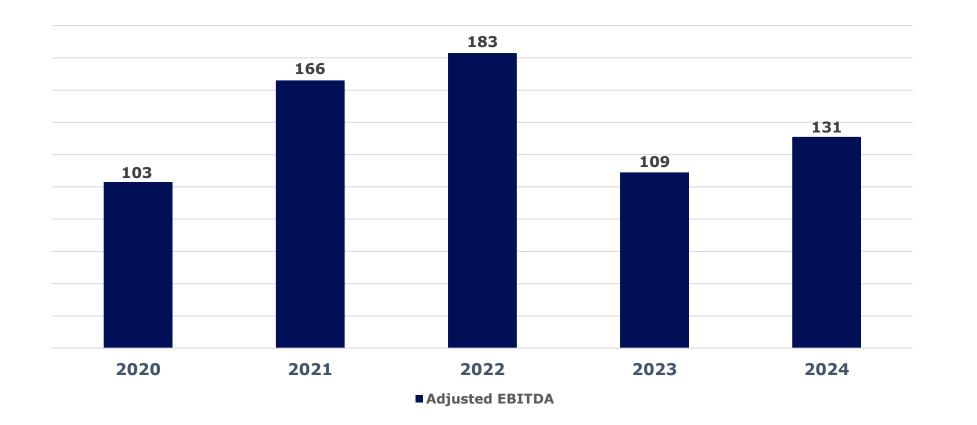
Energy marketing capabilities

| | | Electricity | Natural Gas | Emissions |
|----------|---|--|---------------|---------------|
| | Markets | NWPP, CAISO, SPP, SWPP, IESO, ISO-NE, NYISO, PJM, MISO, ERCOT | Canada and US | Canada and US |
| Products | Execution for TransAlta and third-party assets | | | |
| | Origination and structured products | | | |
| | Real-time trading | | | - |
| | Term trading | | \bigcirc | |
| | Congestion trading | | - | - |
| | Transmission / transportation | | | - |
| | Options | | | |

Diverse product knowledge base provides key insights into North American Markets

Energy Marketing has delivered \$700 million of adjusted EBITDA¹ since 2020

Adjusted EBITDA¹ contribution (\$ million)



41 ¹ Adjusted EBITDA is a non-IFRS measure, see the forward-looking statements and non-IFRS measures information on slide two of this presentation for more information.

Increasing volatility across North American markets creates opportunities

Positioned to deliver value in all market conditions

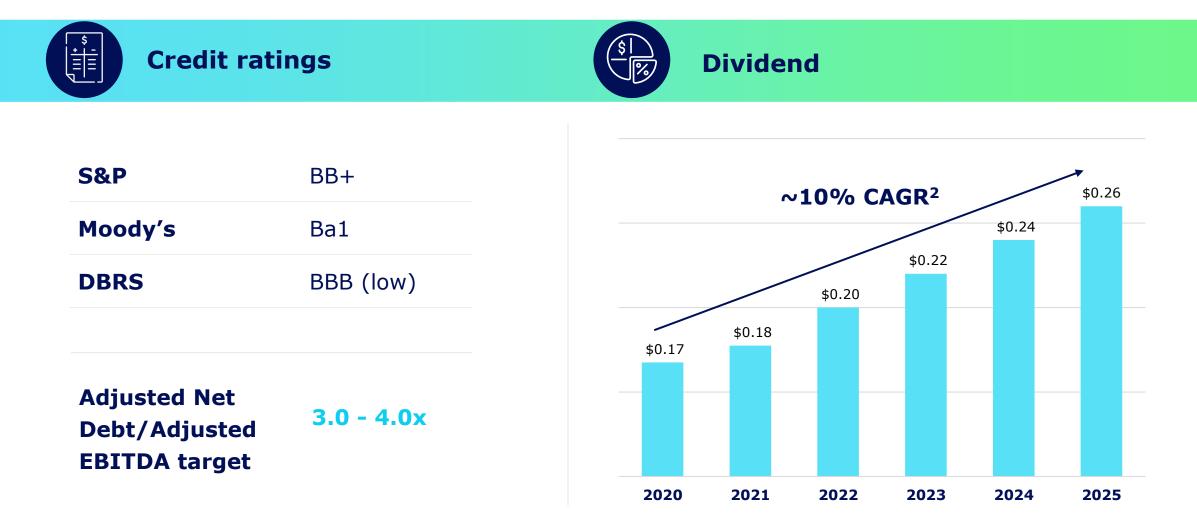
Tightly managed risk profile

\$140 million 5-year average adjusted EBITDA¹

Financial strategy and plan

Brazeau, Alberta

Prudent capital management

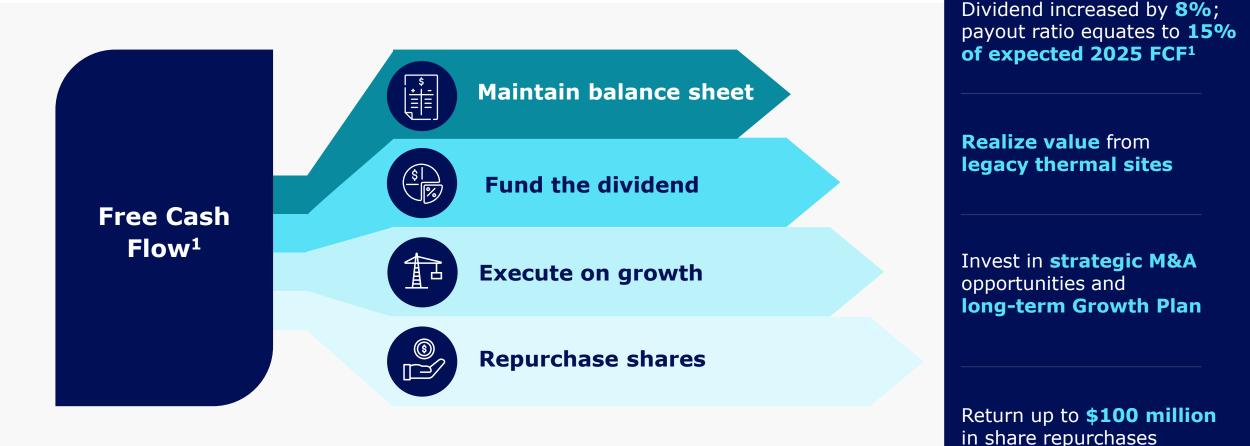




43 ¹ Adjusted net debt and adjusted EBITDA are non-IFRS measures, see the forward-looking statements and non-IFRS measures information on slide two of this presentation for more information.

² CAGR is an abbreviation of compound annual growth rate.

Capital allocation maximizes shareholder value



σ

Maintain strong credit

metrics



Safe and reliable operator



Diversified and increasingly contracted portfolio

Our Value Proposition



Clean electricity leader



High potential legacy energy campuses



Positioned for growth



Financial strength and flexibility

Antrim, New Hampshire