Fixed Income Investor Conference Call

Bryan DeNeve, SVP Finance & CFO

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Capital Power

RESPONSIBLE ENERGY FOR TOMORROW

Growth-oriented North American power producer

- 6,300 MWs of owned capacity including projects under construction
- Strong pipeline of contracted opportunities
- Highly-contracted and diversified portfolio
- Committed to investment grade credit rating
- History of dividend growth with 7% annual growth guidance out to 2021

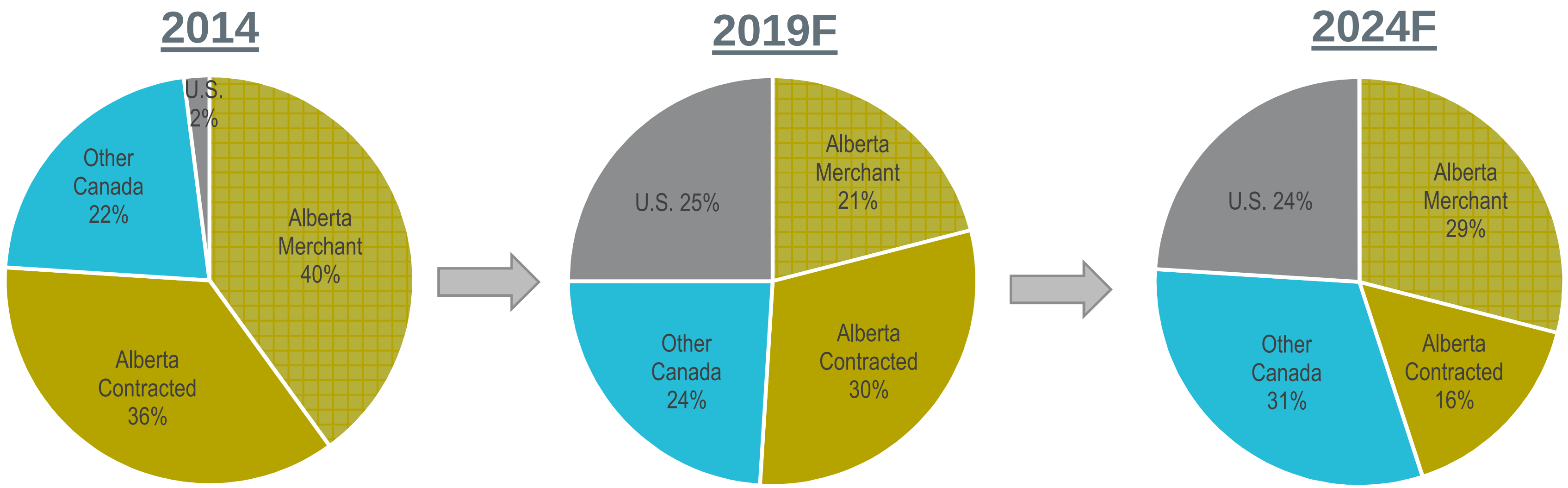
Our business

	Today	Tomorrow
Investing in emission free renewables	• Building new facilities in Canada and U.S.	• Integration of storage technologies
Investing in critical natural gas generation	• Acquiring key facilities in Canada and U.S.	• Reduce emissions profile through carbon utilization
Transitioning heritage coal generation to natural gas	• Complete 10% emission reduction program • Move to 100% natural gas capability	• Reduce emission through 100% natural gas • Reduce emissions profile through carbon utilization

Our assets

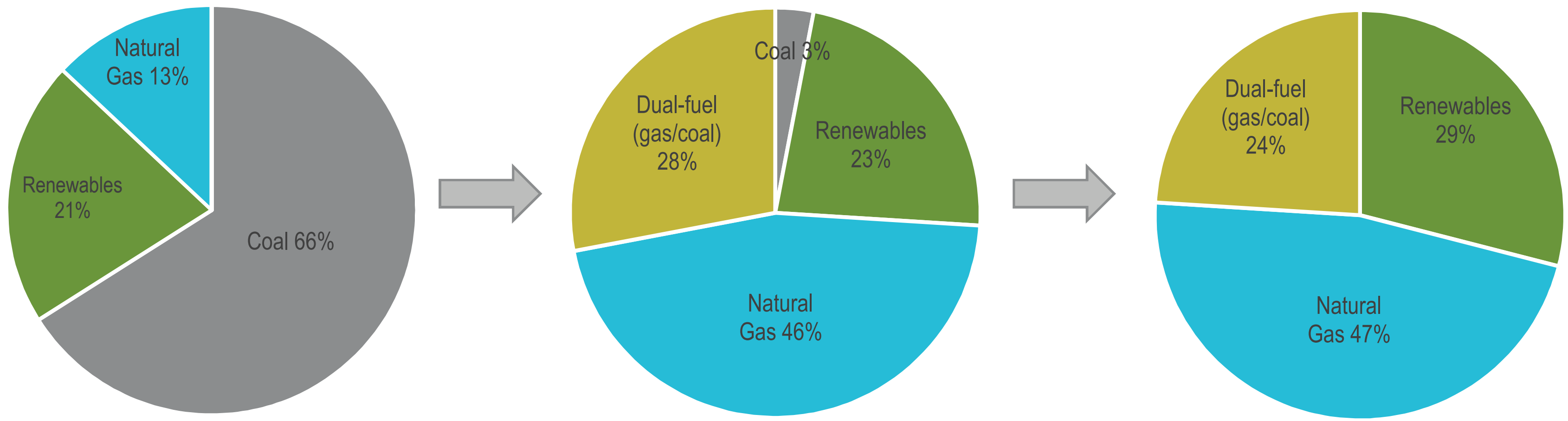
Geographical split

Diversifying outside of Alberta and reducing merchant exposure



Fuel-mix split

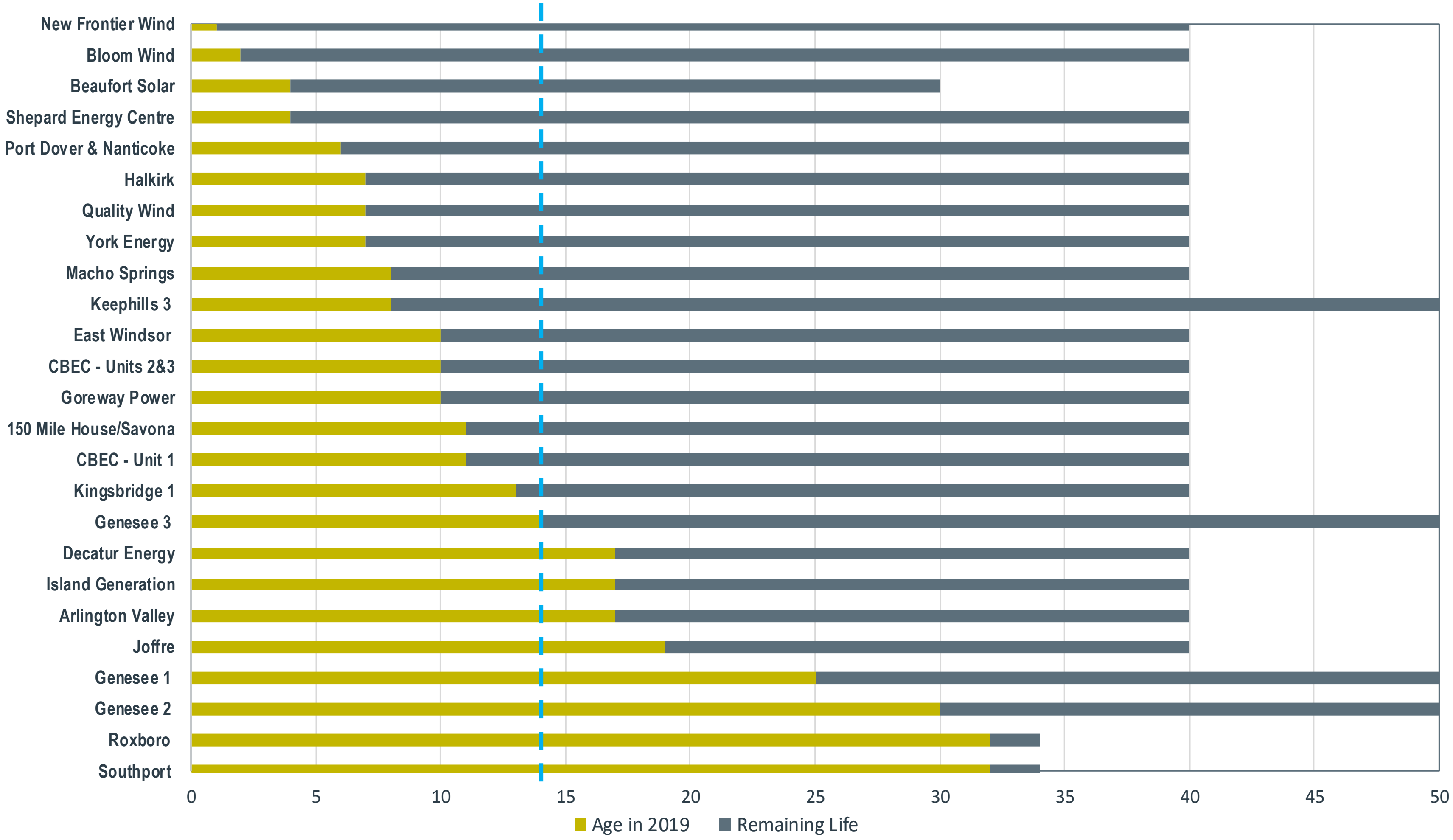
Transitioning away from coal; focusing on natural gas, renewables, and dual-fuel generation



1) Percentages based on Capital Power's share of adjusted EBITDA excluding G&A expenses and including off-coal compensation and finance lease principal payments.
2) Renewables include wind, biomass/solid fuels, solar, waste heat.
3) Dual-fuel - all 3 units of Genesee are included.

Young fleet with long asset lives

Average age 14 years(1)



2% of current generation portfolio expected to retire in the next decade

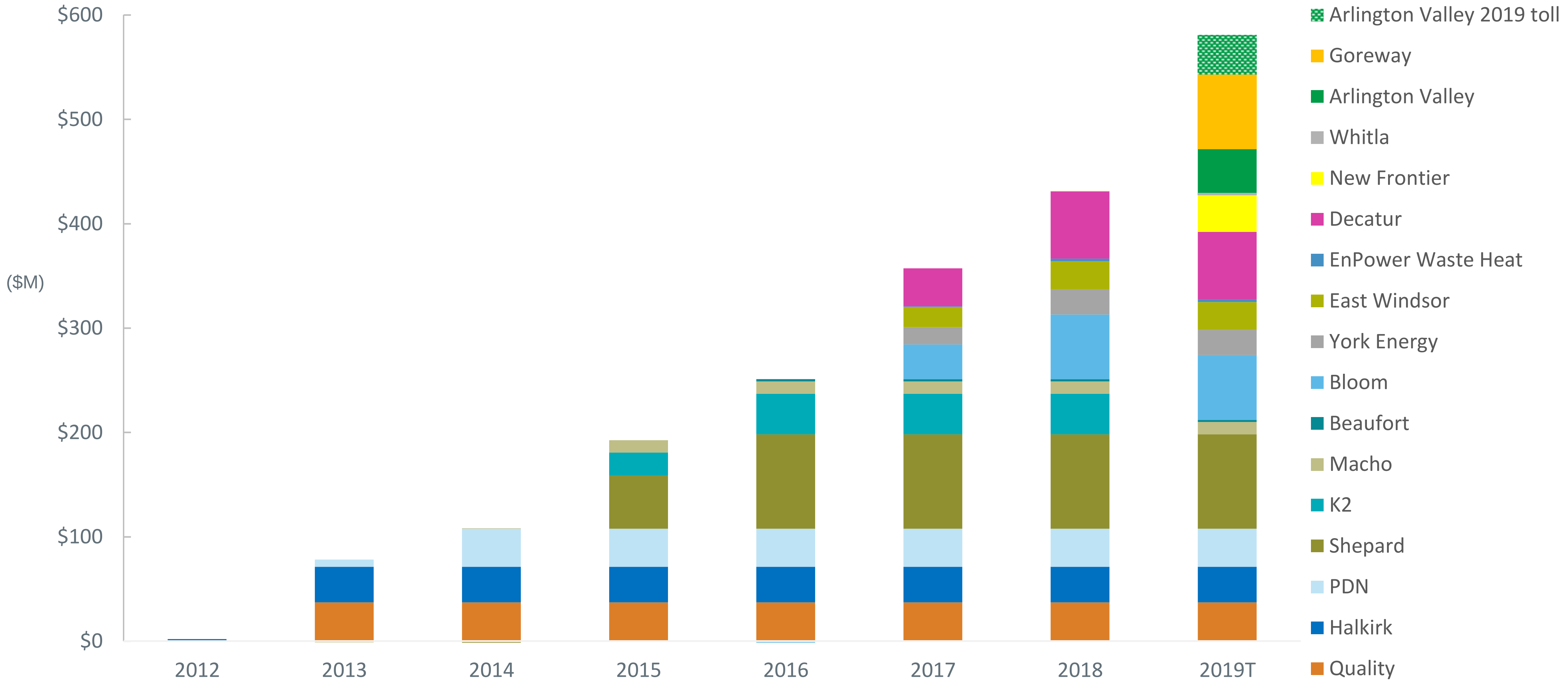
10 years(2,3) Average PPA term remaining

95% 5-year average availability (2019 target of 95%)

1) Megawatt-weighted average.
2) As of October 2019 based on targeted Adjusted EBITDA.
3) EBITDA-weighted average, includes Off-Coal Agreement with the Province of Alberta and excludes Genesee 1&2, Southport and Roxboro PPAs.

Adjusted EBITDA growth from new assets(1-5)

Disciplined growth through focus on contracted opportunities

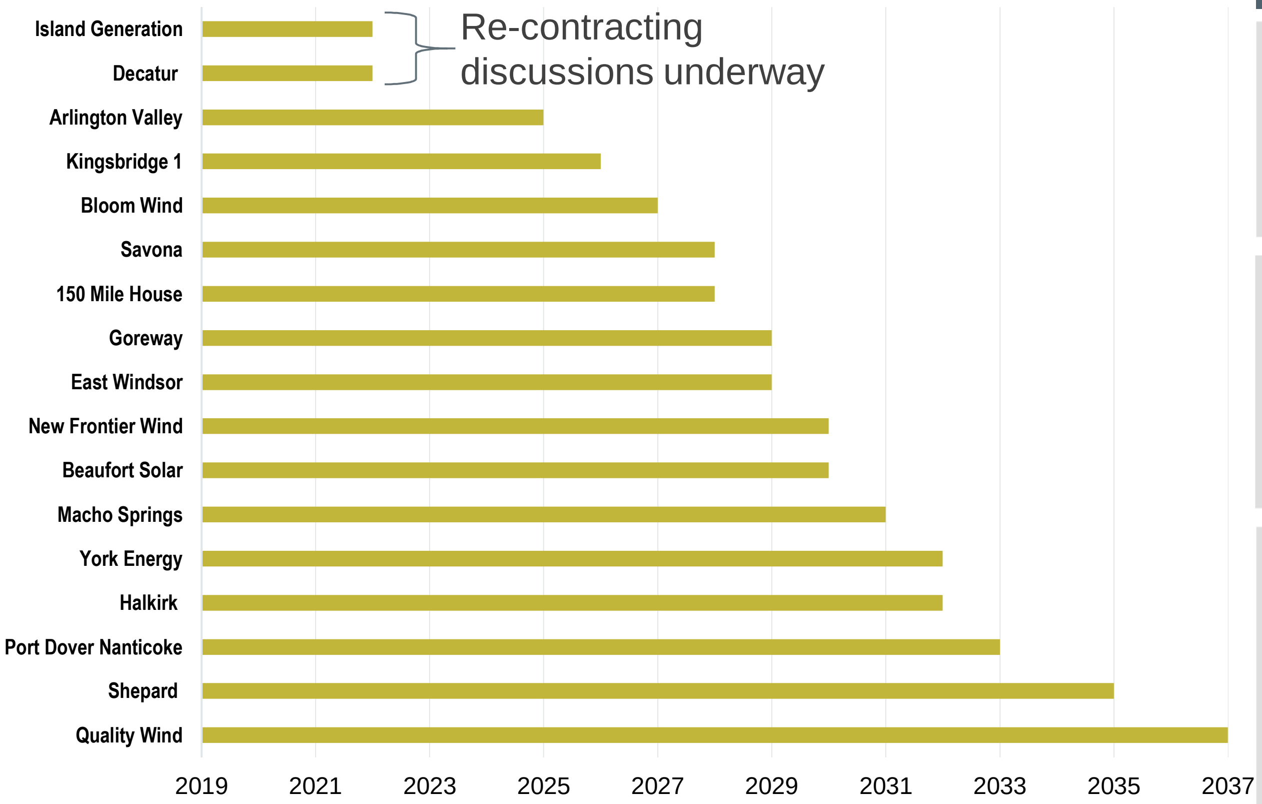


Growth capex since 2012 averages ~$650M(5) per annum

1) Margins have been averaged over the periods except in the year of commissioning/acquisition. 2) Capital Power's share of adjusted EBITDA for all assets. 3) Includes both merchant and contracted components of Shepard and Halkirk. The merchant components include contributions from trading activity attributable to the plants' production. 4) Includes finance lease principal payments for 2012-2018. 5) Includes gross capex from tax-equity investments.

Re-contracting of near term PPAs

PPA Expiries



Facility	PPA Expiry & Counterparty	Re-contracting Outlook
Island Generation (BC)	2022 (BC Hydro)	▪ Provides critical back-up and reliability services to Vancouver Island
Decatur (Alabama)	2022 (Tennessee Valley Authority)	▪ Strong history of re-contracting ▪ Need for capacity due to supply retirements and load growth
Arlington Valley (Arizona)	2025 (Arizona Public Service Co.)	▪ Well-positioned asset required for transmission ▪ Attractive Desert Southwest market with growing demand and low investment risk environment

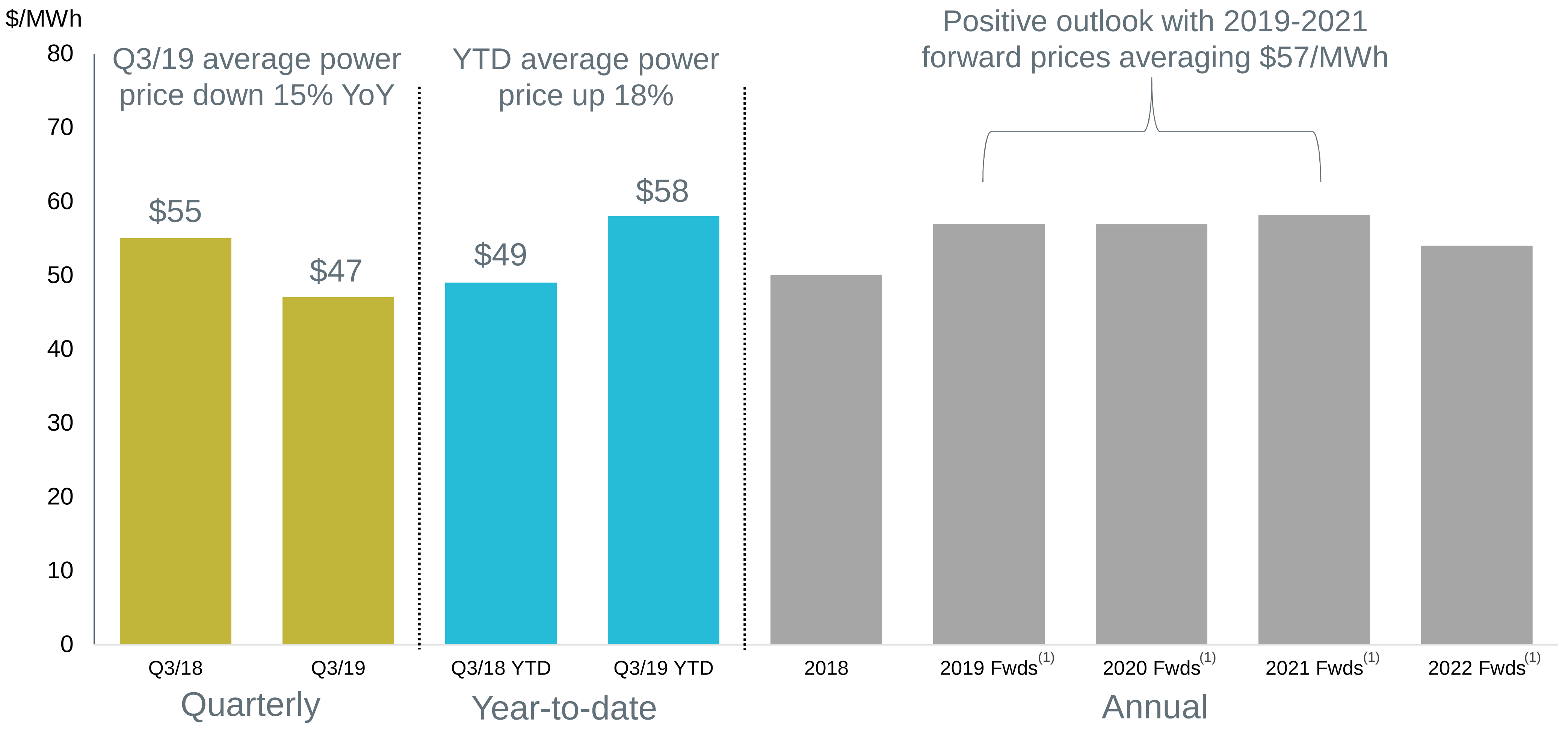
Ontario power market

- In July 2019, Ontario IESO announced they were cancelling further work on a capacity market
  - Decision took into account stakeholder feedback and concerns
- Ontario IESO reviewed their long-term planning outlook and over next 10 years, expect sufficient capacity to exist in the market if resources are reacquired when their contracts expire
- Process to recontract assets has yet to be defined, but is likely to include a combination of bilateral contract extensions and competitive processes
- Given physical locations and services provided to IESO, positive re-contracting outlook for Capital Power’s three natural gas facilities with PPA expiries in 2029-2032

Alberta Power Market

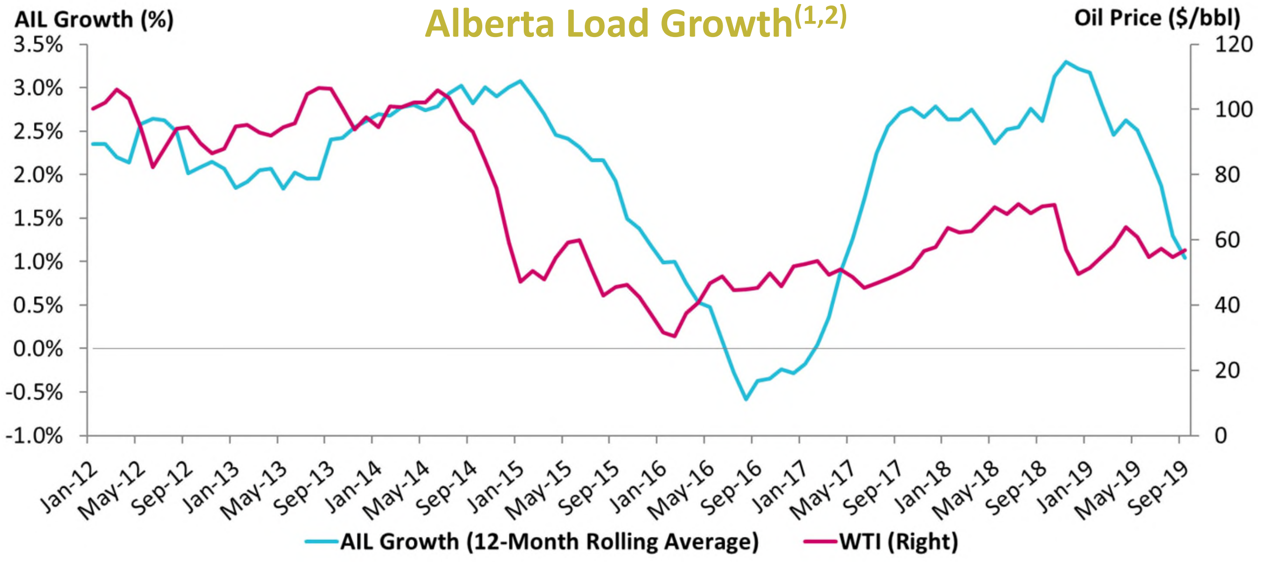
- Positive outlook for power prices
- Demand growth outlook of 1-2%
- Decline in baseload supply
- Energy-only market has successfully attracted investments into Alberta

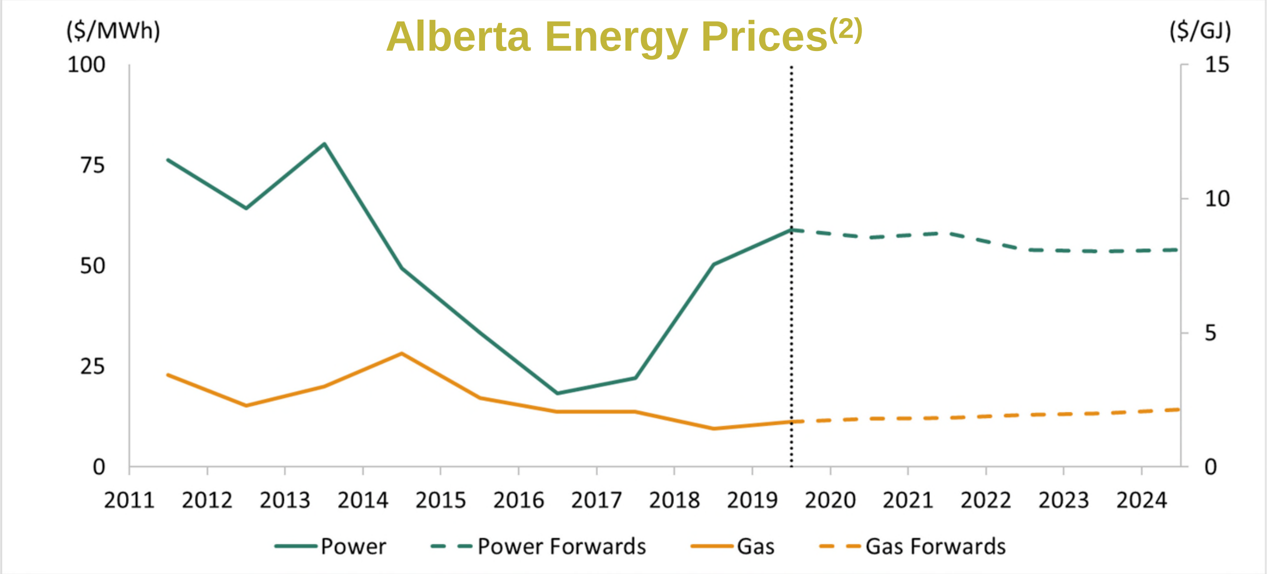
Positive outlook for Alberta power prices



1) Forward prices as of October 25, 2019. 2019 Forwards is a blend of January-October settled pricing and November-December forward prices.

Alberta power market fundamentals





- Load growth has levelled off with the government-imposed oil curtailments
- Oil pipeline expansions and/or additional crude-by-rail anticipated to allow load growth to resume in 2020
- Forward power prices are higher after the decision to retain the energy-only market
- Forward gas prices remain low

1) Alberta Internal Load normalized for weather. Source: Capital Power, EIA.
2) Source: ICE, NGX, AESO, Capital Power.

Portfolio optimization

Alberta commercial portfolio positions

	2020	2021	2022
% sold forward[1]	53%	2%	10%
Contracted prices[1] ($/MWh)	Mid-$50	High-$60	Low-$50
Current average forward prices[2] ($/MWh)	$57	$58	$54

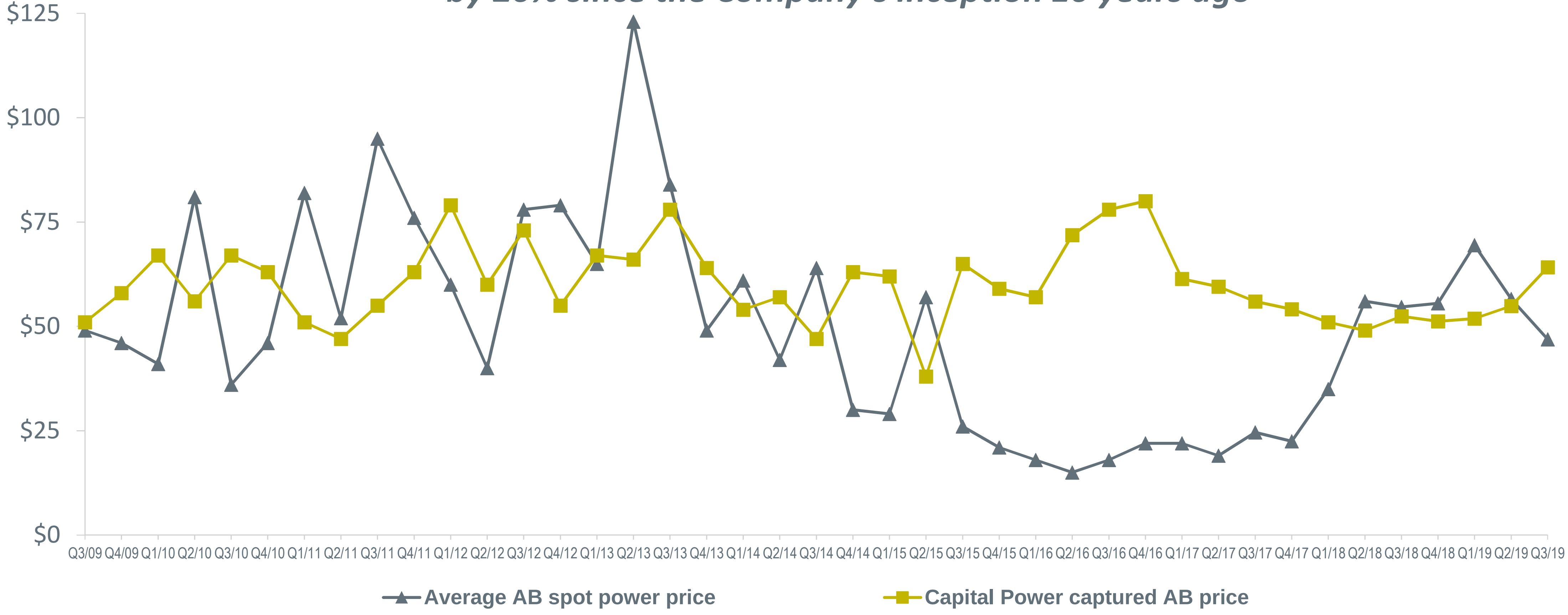
- Alberta baseload merchant position now more than half hedged in 2020
  - From 41% in Q2/19 to 53% at an average price in the mid-$50/MWh

1) As of September 30, 2019. Based on the Alberta baseload facilities plus a portion of Joffre and the uncontracted portion of Shepard.
2) As of October 25, 2019.

Maximizing the Alberta commodity portfolio

Creating incremental value and stability through market expertise

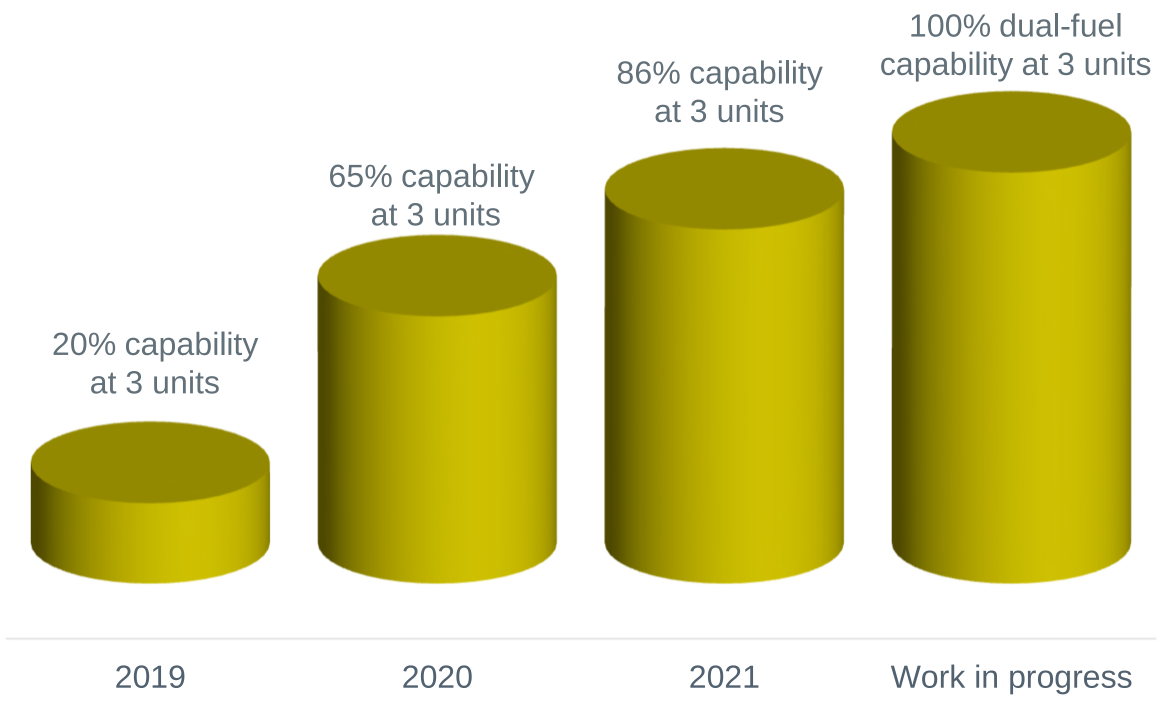
Average realized power prices(1) have exceeded spot power prices by 20% since the Company's inception 10 years ago



1) Based on the Alberta baseload plants and the acquired Sundance PPA plus the uncontracted portion of Shepard Energy Centre baseload. Effective Mar/16, Sundance PPA is no longer a part of Capital Power's baseload generation due to termination of the Sundance PPA.

Genesee dual-fuel capability

Optimizing fuel mix between natural gas and coal to maximize economic returns and further reduce greenhouse gas emissions



- $50M capital costs to completely transform Genesee 1 & 2 to dual-fuel and 40% gas capability for Genesee 3
- Financial benefits highly dependent on carbon cost and natural gas price assumptions
- AFFO estimated to increase $10M in 2020 and $20M in 2021
- Conversion work can be completed within regular planned outages
- Approval received for the construction of new high-pressure natural gas pipeline; expected completion by Q2/20
- Coal operations at Genesee currently planned to continue up to end of 2029; facility will continue as a 100% natural gas-fired facility up to an additional 10 years after 2029

Capital Power assumed 100% ownership and control of Genesee on October 1, 2019

Capital Power is well-positioned in Alberta

Continuation of energy-only market supports market-driven power prices

Young Assets	High Availability	Advantaged Locations	Conversion Optionality	Market Knowledge

- Competitive fixed and variable costs
- High capture prices due to high availability and strategically located wind assets
- Implementation of dual-fuel capability increases value through optionality
- Potential for good operators to capture more value

Growth Strategy

- Strong renewable pipeline including 1,100 MW of U.S. wind development
- Natural gas plant acquisitions
- Growth target of $500M committed capital per year for contracted opportunities

Goreway Power Station acquisition

Young, high-quality natural gas facility with excellent operating history

- **Capacity:** 875 MW
- **Location:** Brampton, Ontario within the GTA load centre on 21 hectares of land
- **Commercial Operations:** June 2009 (~10 years old)
- **Equipment:** Best in class gas-fired generation equipment
  - Upgraded GE 7FB.04 combustion turbines
  - 3 Deltak heat recovery steam generators
  - Siemens steam turbine

Completed acquisition in June 2019

Strategic acquisition of Goreway Power in Ontario

$1B acquisition materially increases contracted adjusted EBITDA and accretive to AFFO per share

- **Transaction:** Acquired Goreway Power Station from JERA Co. Inc. and Toyota Tsusho Corporation for $410M cash consideration and assumption of $590M of project debt
- **PPA:** 10 years remaining (20-year PPA with Ontario IESO to Jun/29)
- **Financing:** Net proceeds from $150M subscription receipt offering, $150M preferred shares, and $325M private placement debt financing of senior notes
- **Accretion:** Based on expected financing, immediate accretion of $0.27 to AFFO per share in 2020 representing growth of 6%
- **Synergies:** Now have 3 gas plants in Ontario; portfolio approach for sale of energy & ancillary market revenues, gas procurement cost savings, and operational synergies

Financial Projections

<u>Full year 2020</u>

- Adjusted EBITDA: $124M
- AFFO: $50M

<u>Average for 2020-2023</u>

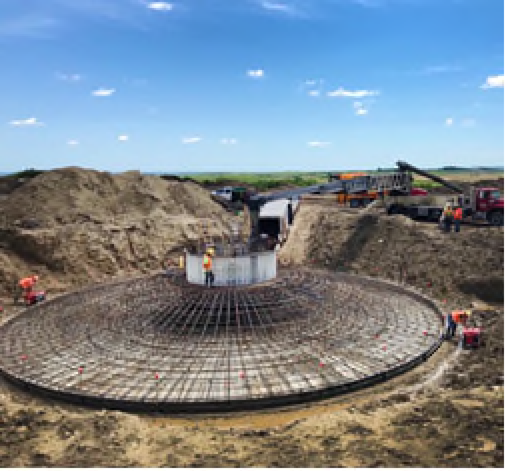
- Adjusted EBITDA: $127M
- AFFO: $56M

Valuation

- ~7.9x EV/EBITDA multiple (2020E EBITDA)

Credit Ratings

- Neutral impact (S&P, DBRS)



2019 development & construction targets

Construction

Whitla Wind
(Alberta)

- 201.6 MW (Phase 1)
- 20-year PPA with Government of Alberta
- $315 - $325M[1]
- COD in Q4/19

Cardinal Point Wind
(Illinois)

- 150 MW
- 12-year PPA with investment grade financial institution
- $289 - $301M
- COD in Mar/20

Other contracted growth

- Exceeded $500M of committed capital target with the acquisition of Goreway

1) Total project costs are expected to exceed the budget due largely to foreign exchange impacts.

Visible pipeline of growth opportunities in targeted markets

>2,000 MW
Potential wind developments

>3,500 MW
Potential gas developments

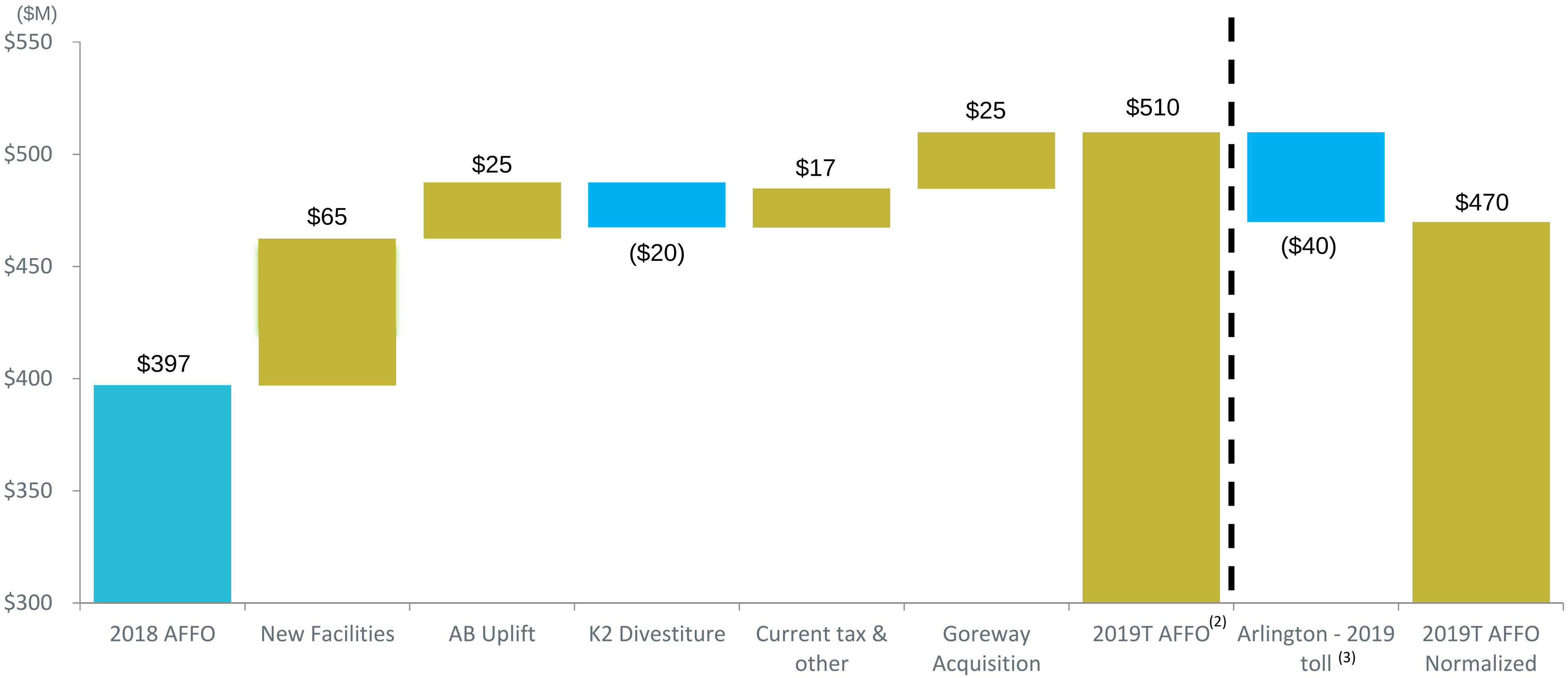
>250 MW
Potential solar developments

Financial

- Disciplined growth and focused on contracted cash flow
- Maintain investment grade credit rating
- Manage financing risk

AFFO[1] for 2019

18% normalized increase driven by development and acquisitions

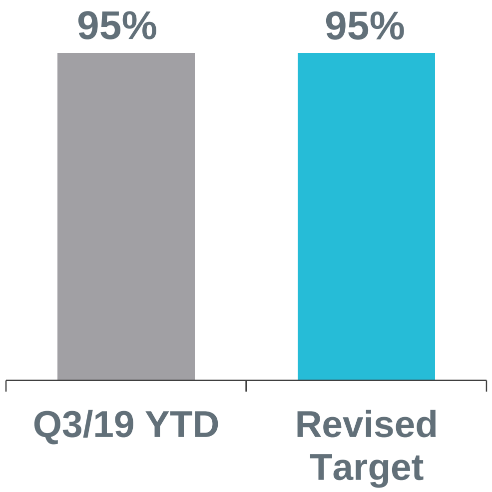


1) AFFO is a non-GAAP financial measure.
2) Based on midpoint of the $485M - $535M guidance range.
3) Non-recurring component of 2019 Arlington Valley toll payment.

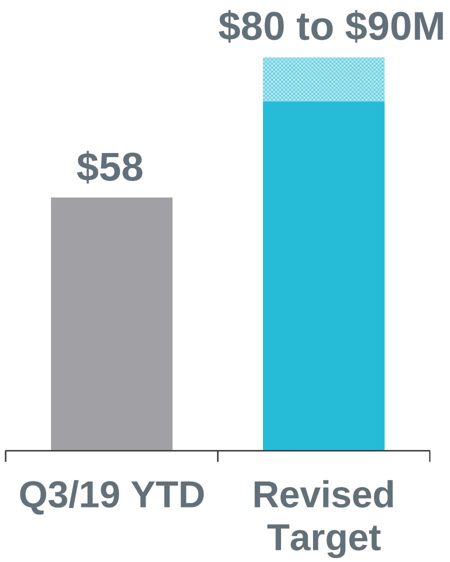
9-month performance versus 2019 annual targets

2019 AFFO expected to be at the top end of the range

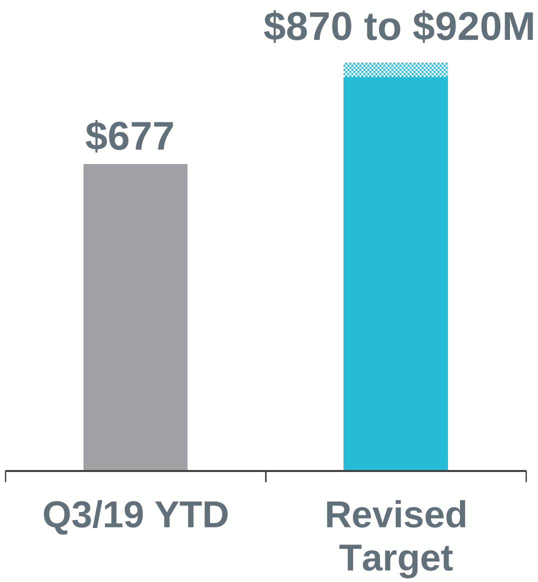
Facility availability



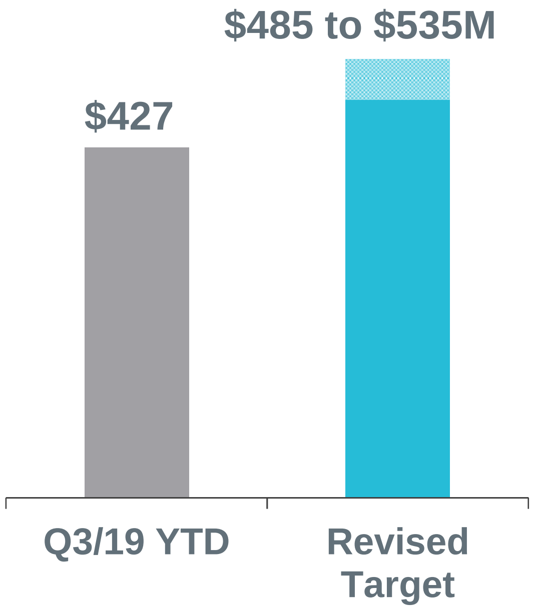
Sustaining capex



Adjusted EBITDA



AFFO



1) Revised targets reflects the acquisition of Goreway Power on June 4, 2019.

Financial strength

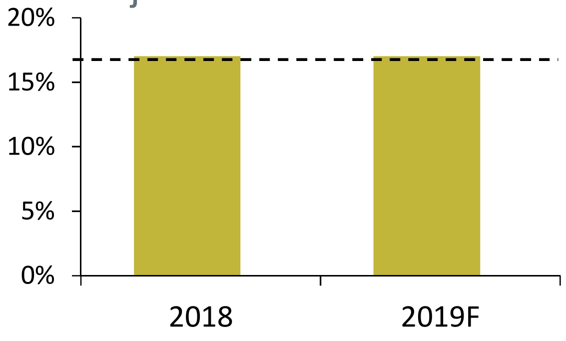
Strong balance sheet and commitment to investment grade credit ratings

Agency	Ratings	Outlook
S&P	BBB- / P-3	Stable
DBRS	BBB(low) / Pfd-3 (low)	Stable

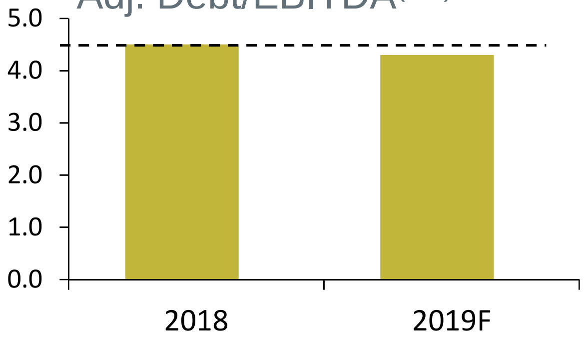
- Strong liquidity from cash flow from operations and $1B of committed credit facilities with 5-year tenor
- Including Goreway acquisition, forecast metrics remain strong and are within rating agency expectations
- As a result, both rating agencies have confirmed Goreway acquisition is neutral to existing credit ratings

S&P financial metrics

Adj. FFO/Debt(1-3)

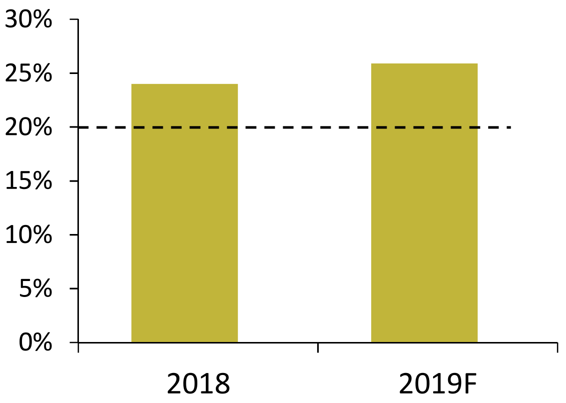


Adj. Debt/EBITDA(1-3)

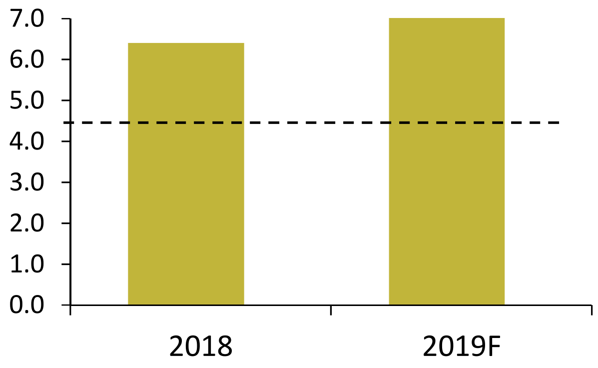


DBRS financial metrics

Adj. Cash flow/Debt(1,3)



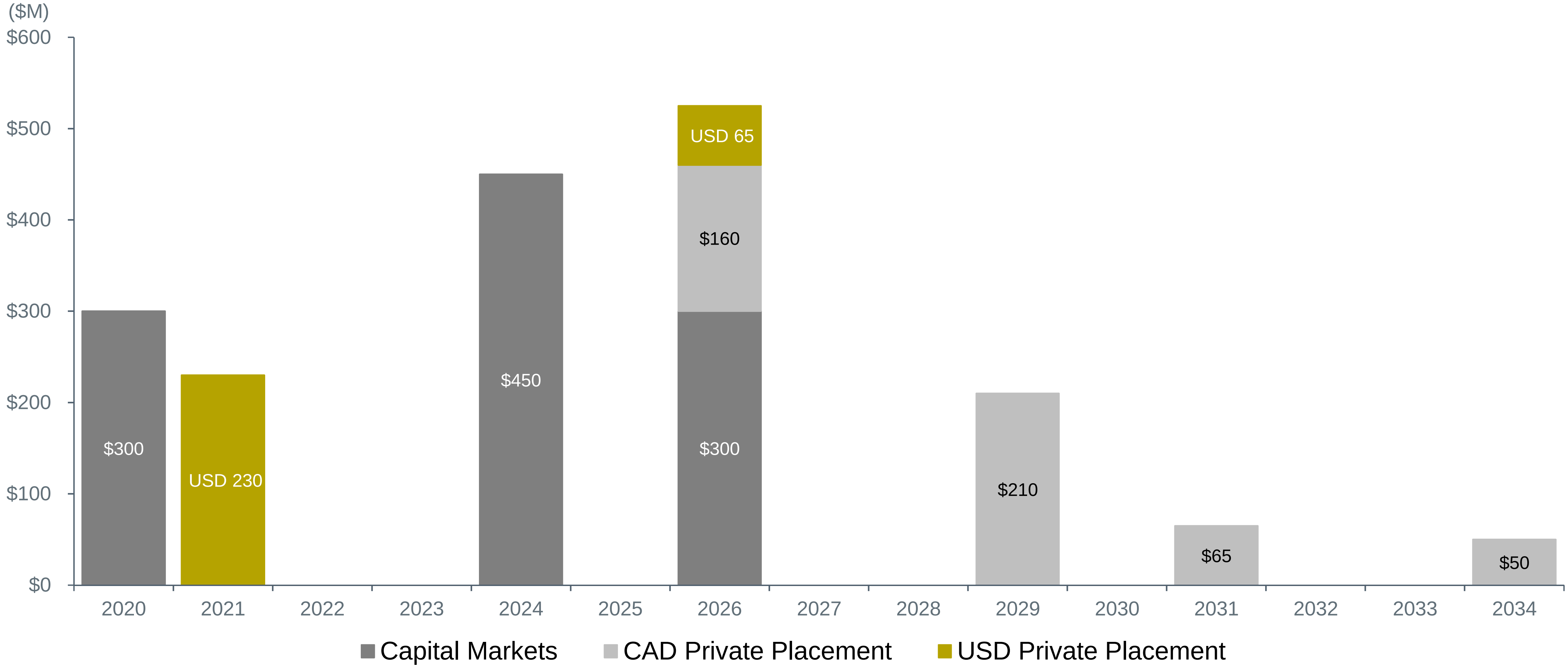
Adj. EBITDA/Interest(1,3)



1) Cash flow and adjusted EBITDA amounts include off-coal compensation.
2) Based on S&P's weighted average ratings methodology.
3) 2019F means 2019 forecast. See "Forward-looking information".

Debt maturity schedule[1]

Well spread-out debt maturities supported by long asset lives



1) Debt amounts as of June 30, 2019 excludes non recourse debt, credit facility debt, and tax-equity financing.

Sustainability and Investment Opportunity

Sustainability – creating responsible energy for tomorrow

Environment

- 2/3 of generation capacity from natural gas and renewables with focused growth in these areas
- Implementation of dual-fuel capability at coal facilities with eventual 100% coal to gas conversion
- World leading carbon reduction program (targeting 10% reduction in GHG emissions)
- Investing in innovative technology - carbon capture and utilization with C2CNT

Social

- 44% women on Board and 33% on Executive team that is consistent with our policy of having 30% female representation at minimum for both our Board and Executive team
- Successful stakeholder engagement program aimed at being “neighbor of choice”
- Community investment – in past 5 years, have invested $5.1 million in our communities
- Named one of Canada’s 50 Best Corporate Citizens for eight consecutive years

Governance

- Named one of the World’s Most Ethical Companies by Ethisphere in 2019
- Increased ESG leadership with Board mandate formally recognizing ESG as a core part of governance and business strategy
- Appointed a Chief Sustainability Officer
- 92% of shareholders voted in favor of a “Say on Pay” resolution on approach to Executive Compensation
- Reporting transparent Climate-related financial disclosure (TCFD)

Sustainability reporting

- 2018 Corporate Sustainability Report (CSR) released July 29/19
  - CSR continues to be fully compliant with the internationally recognized Global Reporting Initiative (GRI) Standards
- Outlines our sustainability targets
  - Constructing all new natural gas generation units to be carbon capture and/or hydrogen-ready
  - Reducing CO_2 emissions at Genesee by 50% by 2030 from 2005 levels
  - Reducing CO_2 emissions by 10% and our emission intensity by 65%, in 2030 from 2005 levels(1), in spite of increasing our generation by 145%
  - Investing in carbon capture and utilization technology such as C2CNT to eventually decarbonize our natural gas generation assets
- Plan to release our first integrated report in Feb/20 that combines annual financial, environment, social and governance disclosures

1) Based on our current fleet.

Strategically evolving our portfolio

	Generation technology[1,2]	Contracted capacity[1,2]	North American footprint[1,2]	AFFO per share[2]
2014	33% Gas and renewables	58% Contracted	76% Alberta	$2.51
2019	67% Gas and renewables	79% Contracted	51% Alberta	$4.84[3]
	Renewables and gas growth	**Greater visibility**	**Geographic diversification**	**Increased cash flow per share**

1) Based on Adjusted EBITDA excluding G&A expenses and including off-coal compensation and finance lease principal payments.
2) Adjusted EBITDA and AFFO per share are non-GAAP financial measures.
3) Based on midpoint of the $485M - $535M guidance range.

Forward-looking information

Cautionary statement

Certain information in this presentation contains forward-looking information related to anticipated events and strategies. Actual results could differ materially from conclusions, forecasts or projections in the forward-looking information as a result of certain material factors or assumptions that were applied in drawing conclusions or making forecasts or projections as reflected in the forward-looking information.

Additional information about the material factors and risks that could cause actual results to differ materially from the conclusions, forecasts or projections in the forward-looking information and the material factors or assumptions that were applied in drawing a conclusion or making a forecast or projection as reflected in the forward-looking information are disclosed in this presentation and in the Company’s annual Management’s Discussion and Analysis (MD&A) dated and filed February 19, 2019 and its third quarter 2019 MD&A prepared as of October 25, 2019 which is available under the Company’s profile on SEDAR at sedar.com and on the Company’s website at capitalpower.com and other reports filed by the regulator with Canadian securities regulators.

Forward-looking information

Forward-looking information or statements included in this presentation are provided to inform the Company's shareholders and potential investors about management's assessment of Capital Power's future plans and operations. This information may not be appropriate for other purposes. The forward-looking information in this presentation is generally identified by words such as will, anticipate, believe, plan, intend, target, and expect or similar words that suggest future outcomes.

Material forward-looking information includes expectations regarding:

- future revenues, expenses, earnings and adjusted funds from operations,
- the future pricing of electricity and market fundamentals in existing and target markets,
- future dividend growth,
- the Company's future cash requirements including interest and principal repayments, capital expenditures, dividends and distributions,
- the Company's sources of funding, adequacy and availability of committed bank credit facilities and future borrowings,
- future growth and emerging opportunities in the Company's target markets including the focus on certain technologies,
- the timing of, funding of, and costs for existing, planned and potential development projects and acquisitions (including phase 1 of the Whitla Wind project, and the Cardinal Point Wind project),
- facility availability and planned outages,
- capital expenditures for facility maintenance and other (sustaining capital, future growth projects, Genesee dual-fuel capability project),
- the impacts of market designs in the Company's core markets,
- the impact of the transformation of the Genesee units to 100% dual-fuel,
- expectations pertaining to the financial impacts of the acquisition of Goreway, including the impacts to adjusted funds from operations, adjusted funds from operations per share and adjusted EBITDA,
- expectations pertaining to the financial impacts of the swap of interests in the Genesee 3 and Keephills 3 facilities, including expectations regarding the impacts to adjusted funds from operations and the expected accounting impacts of the transaction including the pre-tax net loss on the transaction, and
- expectations around the Line Loss Rule Proceeding including timing of retrospective loss factors being finalized, participation in applicable appeal processes, and potential impacts to the Company.

These statements are based on certain assumptions and analyses made by the Company in light of its experience and perception of historical trends, current conditions, expected future developments, and other factors it believes are appropriate including its review of purchased businesses and assets. The material factors and assumptions used to develop these forward-looking statements relate to:

- electricity and other energy and carbon prices,
- performance,
- business prospects (including potential re-contracting of facilities) and opportunities including expected growth and capital projects,
- status of and impact of policy, legislation and regulations,
- effective tax rates,
- other matters discussed under the Performance Overview and Outlook sections in the Q3/19 Management's Discussion and Analysis,
- anticipated performance of the acquired Goreway facility, and
- the anticipated future performance of the Genesee 3 and Keephills 3 facilities used to assess the financial impacts of the swap of interests.

Whether actual results, performance or achievements will conform to the Company's expectations and predictions is subject to a number of known and unknown risks and uncertainties which could cause actual results and experience to differ materially from the Company's expectations. Such material risks and uncertainties are:

- changes in electricity prices in markets in which the Company operates,
- changes in energy commodity market prices and use of derivatives,
- regulatory and political environments including changes to environmental, financial reporting, market structure and tax legislation,
- generation facility availability and performance including maintenance of equipment,
- ability to fund current and future capital and working capital needs,
- acquisitions and developments including timing and costs of regulatory approvals and construction,
- changes in market prices and availability of fuel,
- ability to realize the anticipated benefits of the Goreway acquisition,
- ability to realize the anticipated benefits of the swap of interests in the Genesee 3 and Keephills 3 facilities,
- limitations inherent in the Company's review of acquired assets, and
- changes in general economic and competitive conditions.

See Risks and Risk Management in the Company's December 31, 2018 annual MD&A for further discussion of these and other risks. Readers are cautioned not to place undue reliance on any such forward-looking statements, which speak only as of the specified approval date. The Company does not undertake or accept any obligation or undertaking to release publicly any updates or revisions to any forward-looking statements to reflect any change in the Company's expectations or any change in events, conditions or circumstances on which any such statement is based, except as required by law.

Non-GAAP financial measures

The Company uses (i) earnings before net finance expense, income tax expense, depreciation and amortization, impairments, foreign exchange gains or losses, finance expense and depreciation expense from its joint venture interests, gains or losses on disposals and unrealized changes in fair value of commodity derivatives and emission credits (adjusted EBITDA), (ii) adjusted funds from operations, (iii) adjusted funds from operations per share, (iv) normalized earnings attributable to common shareholders, and (v) normalized earnings per share as financial performance measures.

These terms are not defined financial measures according to GAAP and do not have standardized meanings prescribed by GAAP and, therefore, are unlikely to be comparable to similar measures used by other enterprises. These measures should not be considered alternatives to net income, net income attributable to shareholders of the Company, net cash flows from operating activities or other measures of financial performance calculated in accordance with GAAP. Rather, these measures are provided to complement GAAP measures in the analysis of the Company's results of operations from management's perspective.

Reconciliations of these non-GAAP financial measures are disclosed in the Company's Management's Discussion and Analysis prepared as of October 25, 2019 for the third quarter of 2019, which is available under the Company's profile on SEDAR at SEDAR.com and on the Company's website at capitalpower.com.

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