

Delivering a *Sustainable Future*

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Bryan DeNeve, SVP Finance and CFO

Investor Presentation

April 2019

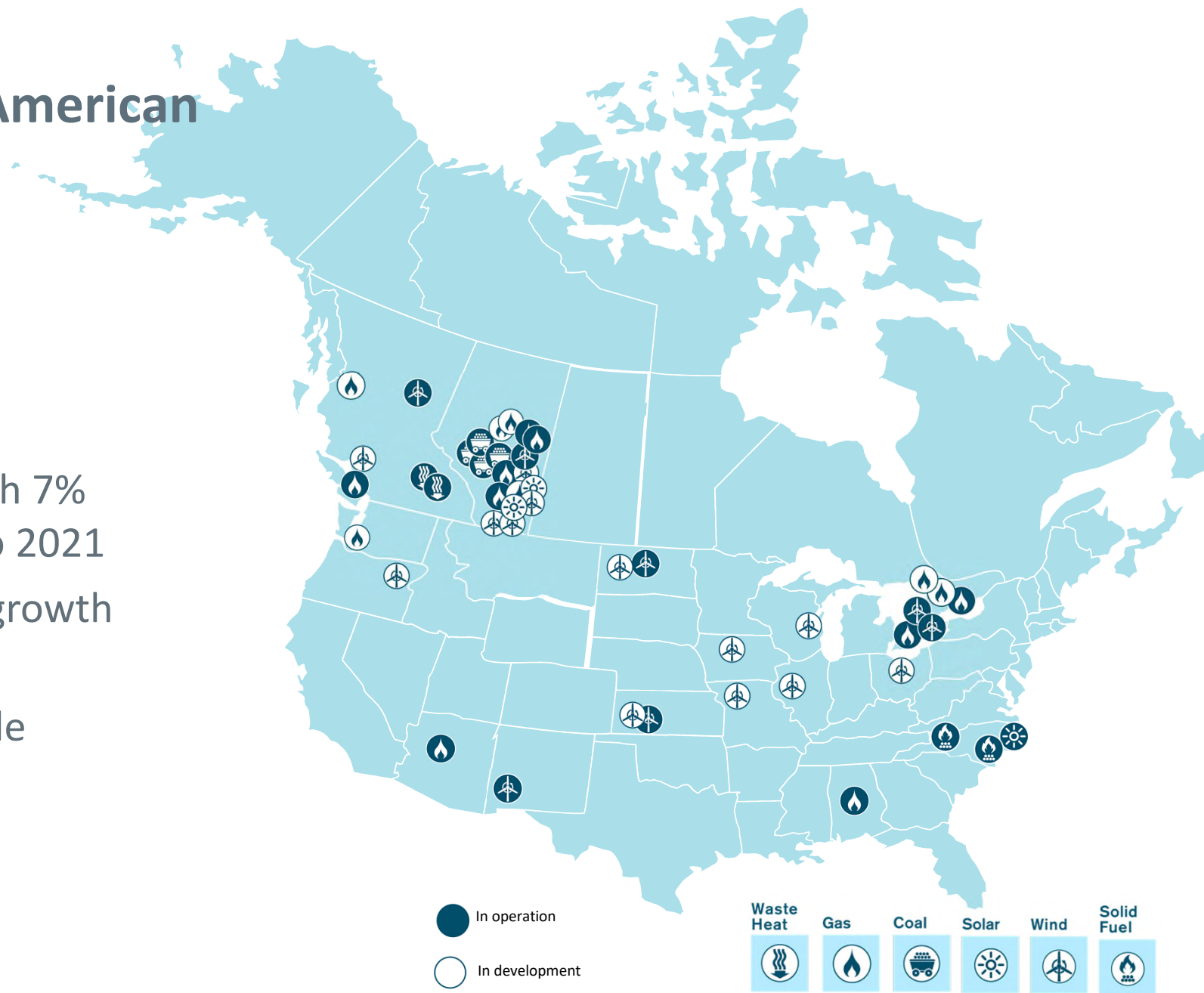
Capital
Power 

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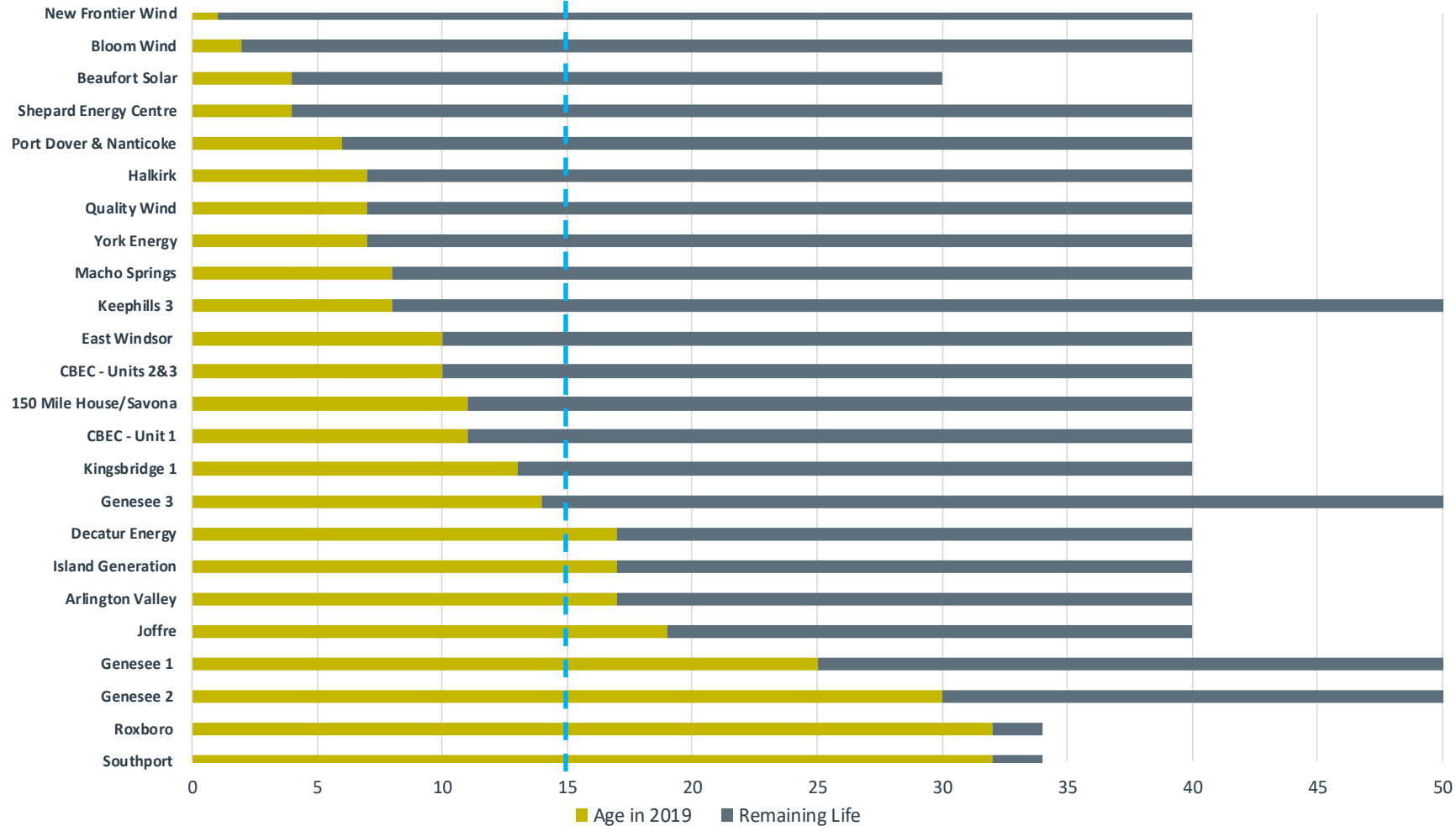
Growth-oriented North American power producer

- 5,100 MWs of owned capacity
- Highly-contracted portfolio
- History of dividend growth with 7% annual growth guidance out to 2021
- Strong pipeline of contracted growth opportunities
- Committed to investment grade credit rating



Young fleet with long asset lives

Average age 15 years⁽¹⁾



95%

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

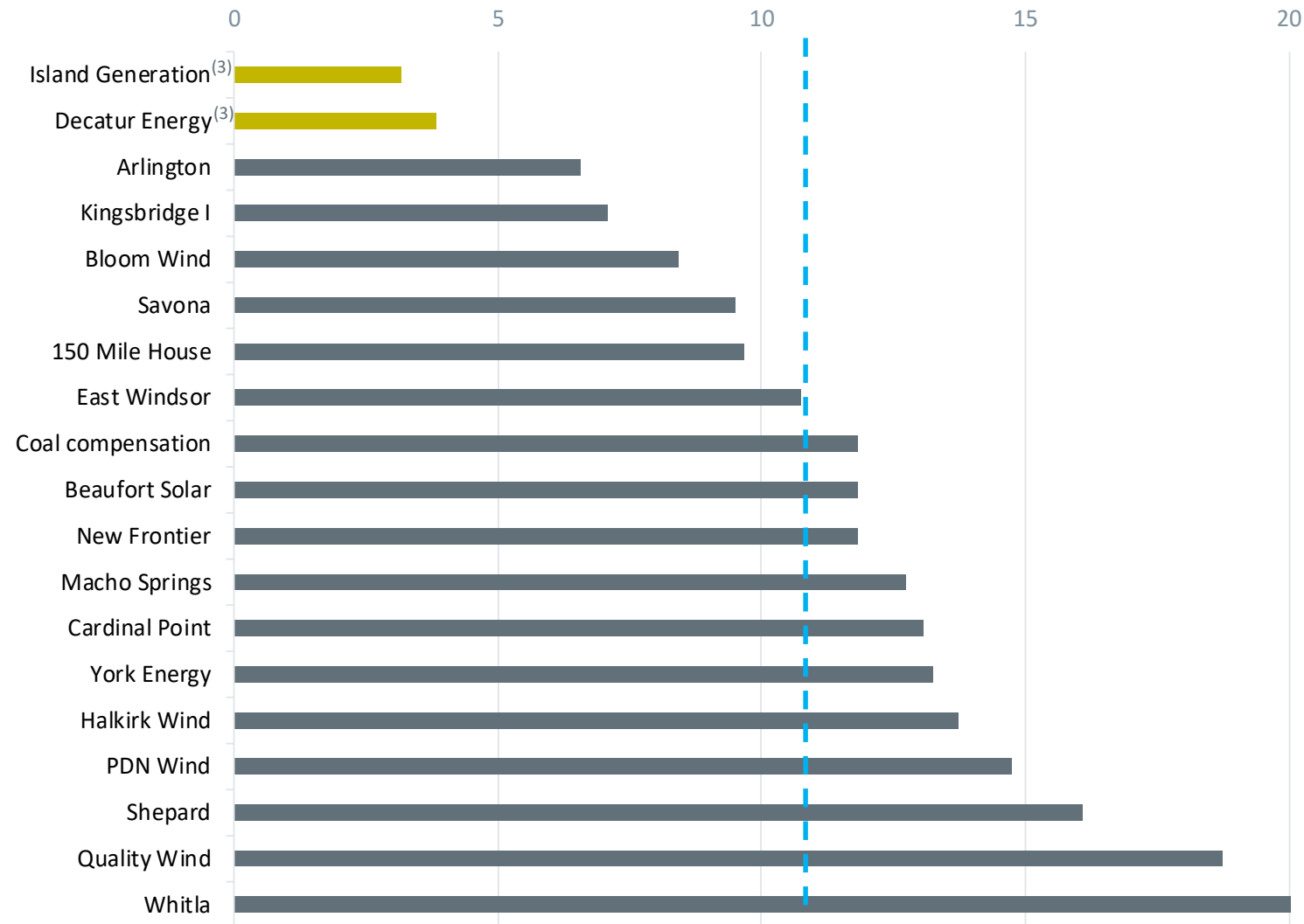
3%

of current generation
portfolio is expected to
retire in the next decade

1) Megawatt-weighted average.

2) EBITDA-weighted average, based on 2018 EBITDA. Includes Off-Coal Agreement with the Province of Alberta and excludes Genesee 1 & 2, Southport and Roxboro PPAs.

High level of average contracted life



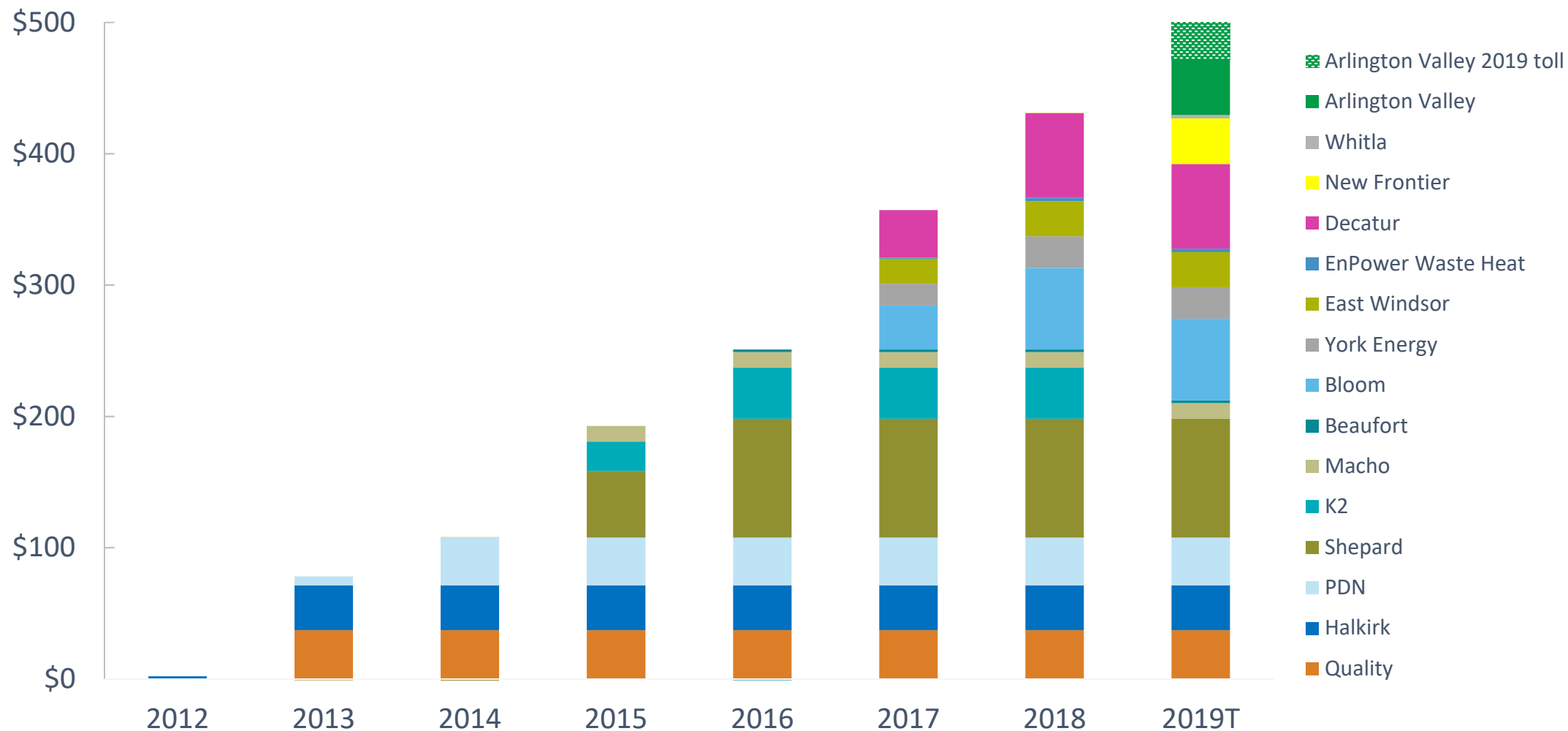
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Years^(1,2) Average PPA
term remaining

1) As at March 2019, based on 2019 target Adjusted EBITDA.

2) EBITDA-weighted average, includes Off-Coal Agreement with the Province of Alberta and excludes Genesee 1 & 2, Southport and Roxboro PPAs.

3) Currently undergoing re-contracting negotiations.

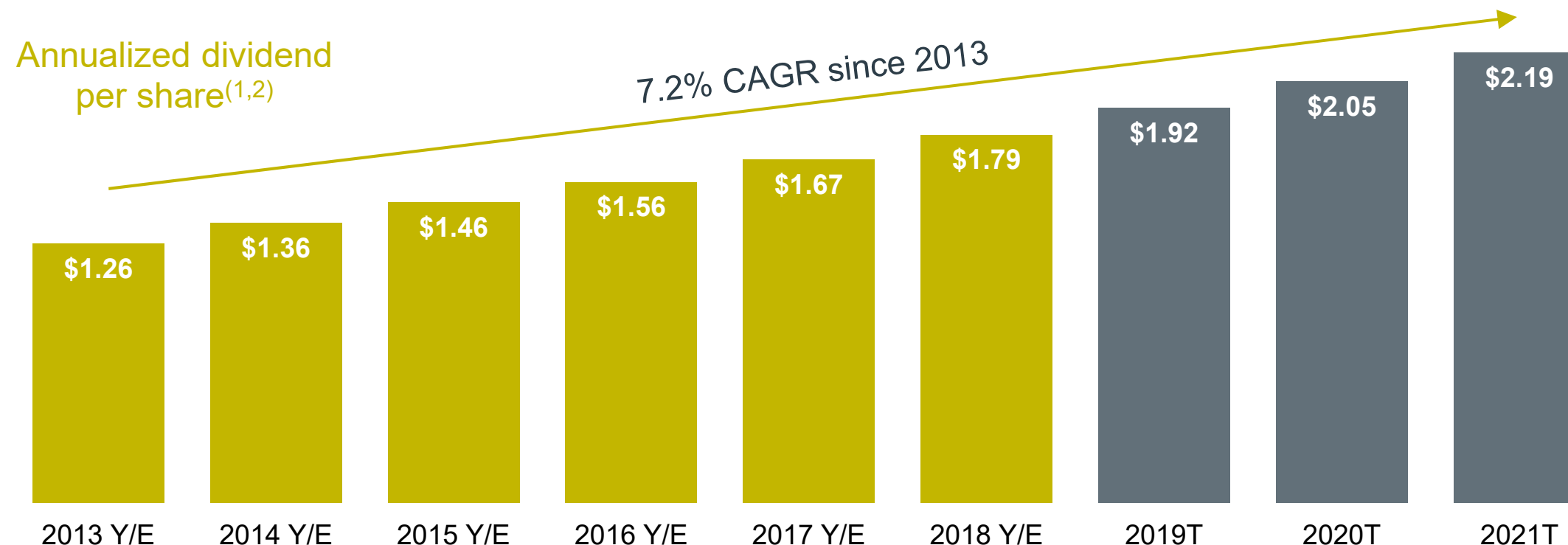
Adjusted EBITDA growth from new assets⁽¹⁻⁵⁾



Growth capex since 2012 averages ~\$500M⁽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. Adjusted EBITDA is a non-GAAP measure. 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.

Dividend growth guidance extended to 2021



Target long-term annual AFFO payout ratio of 45-55%

Delivering consistent annual dividend growth should result in EBITDA multiple expansion

1) Subject to market conditions, economic outlook, cash flow forecast, and Board approval at the time.

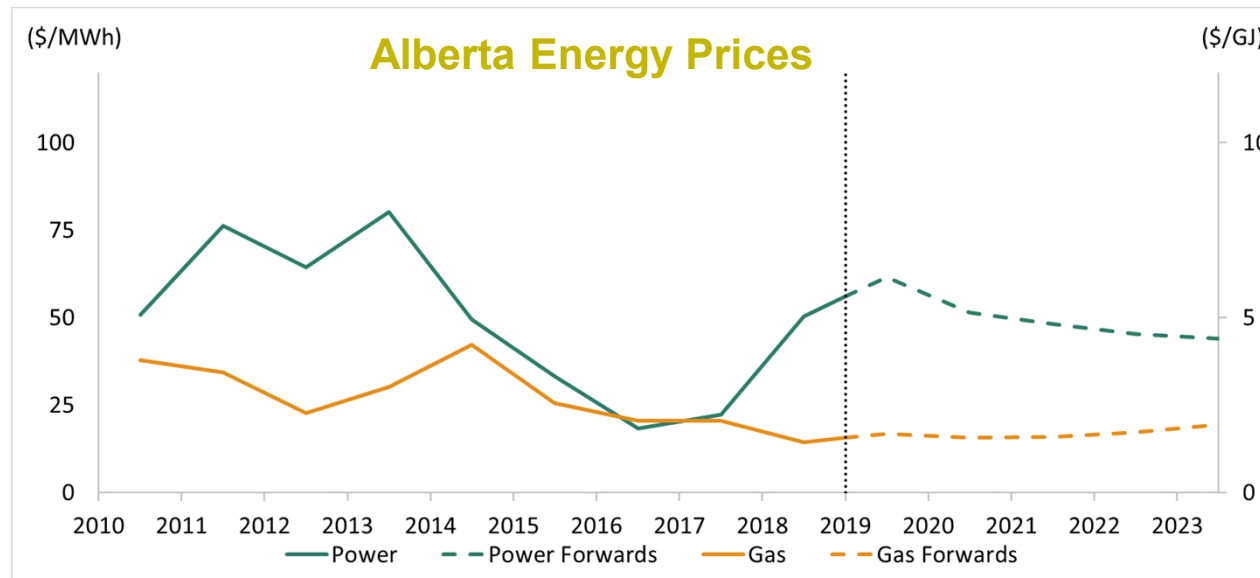
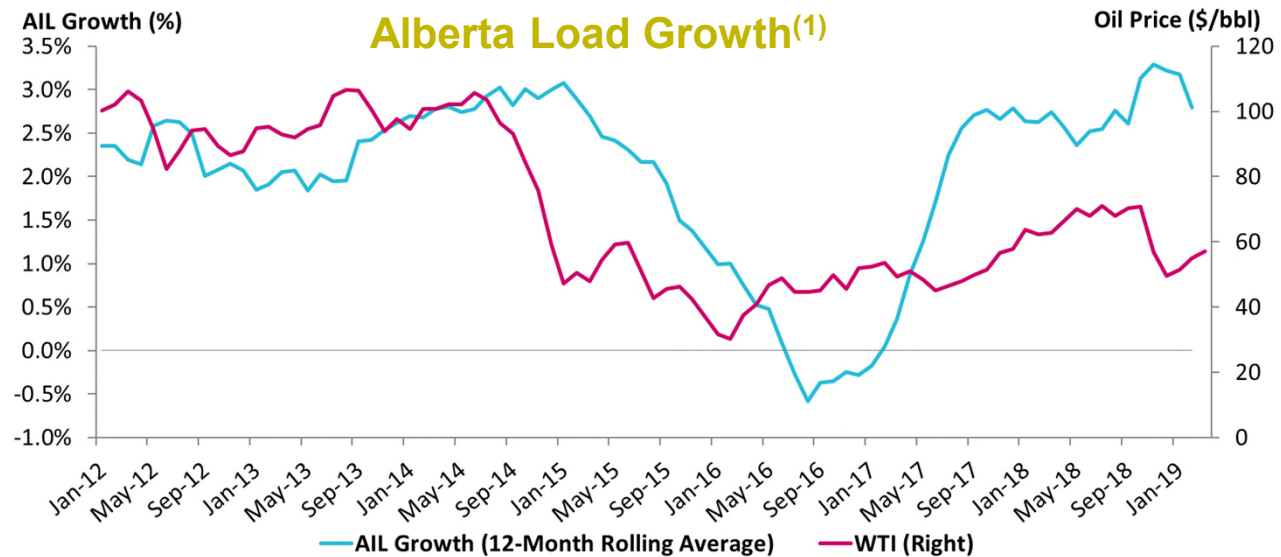
2) 2013 to 2018 annualized dividend based on year-end quarterly common shares dividend declared.

Alberta Power Market

- Robust outlook for power prices
- Demand growth of 3-4%
- Reasonable capacity market design



Positive Alberta power market fundamentals

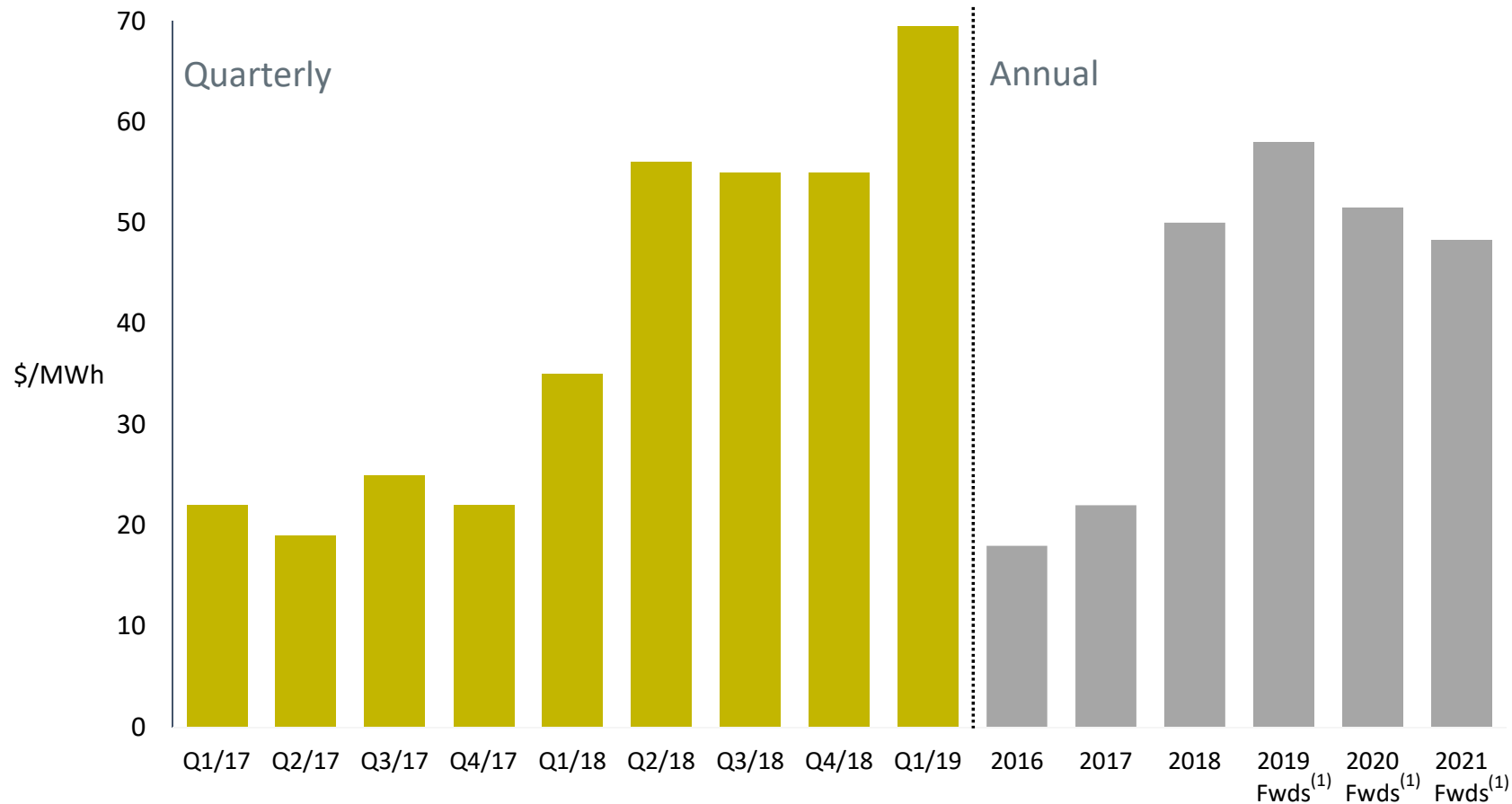


- Alberta continues to see strong demand growth
- New summer peak record of 11,169 MW on August 10, 2018
- Older coal fired units have started to retire or mothball
- Termination of 2,000 MW of PPAs have facilitated commercial optimization

1) Alberta Internal Load normalized for weather. Source: Capital Power, EIA.

Stable outlook in Alberta power prices

Power prices averaging nearly \$60/MWh in last 12 months



Significant step change in 2018 power prices

- Coal plant retirements / mothballing
- Robust demand growth
- Higher carbon tax

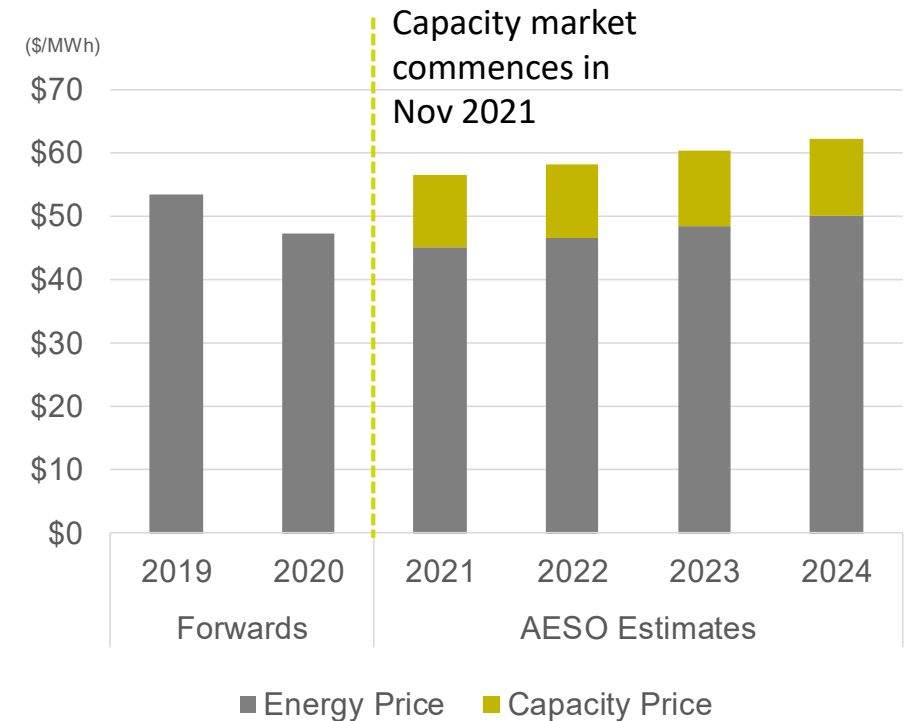
1) Forward prices as of March 27, 2019.

Capacity market design

Final design is consistent with our view of a properly designed capacity market for Alberta

- AESO has finalized its proposed market design
- Design sets a level playing field for suppliers to provide a uniform capacity product
- Provides an equal opportunity for all resources to earn a return on and of capital
- Next steps:
 - Alberta Utilities Commission (AUC) approval expected by mid-2019
 - First capacity auction in late 2019
 - Capacity contracts awarded early 2020 for delivery starting in November 2021

AESO's forecast revenue for baseload facilities



AESO's forecast of \$55-\$65/MWh for combined capacity and energy revenue reflects the all-in cost of new entry

Portfolio optimization

AB commercial portfolio positions

	2019	2020	2021
As of date	Dec 31, 2018		
% sold forward ⁽¹⁾	78%	34%	1%
Contracted prices ⁽²⁾ (\$/MWh)	Mid-\$50	Low-\$50	Low-\$80 ⁽³⁾
Current average forward prices ⁽⁴⁾ (\$/MWh)	\$58	\$52	\$48

Nearly 500 MW (gas peaking, wind) available to capture the upside from low natural gas prices, higher power prices, and price volatility

1) Based on the Alberta baseload plants plus a portion of Joffre and the uncontracted portion of Shepard.

2) Forecasted average contracted prices may differ significantly from future average realized prices as future realized prices are driven by a combination of previously contracted prices and settled prices.

3) Average contract pricing on the net 2021 position is abnormally high due to low net volumes sold forward where gross sales were transacted at higher prices than gross purchases.

4) As of March 27, 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 22% 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.

Capital Power is well positioned in Alberta

Market certainty is returning



Young
Assets



High
Availability



Advantaged
Locations



Conversion
Optionality



Market
Knowledge

- Competitive fixed and variable costs
- Maximal capacity volumes due to high availability and strategically located wind assets
- Coal to gas conversion optionality through bid rules
- Potential for good operators to capture more value
- Existing and new assets treated equally

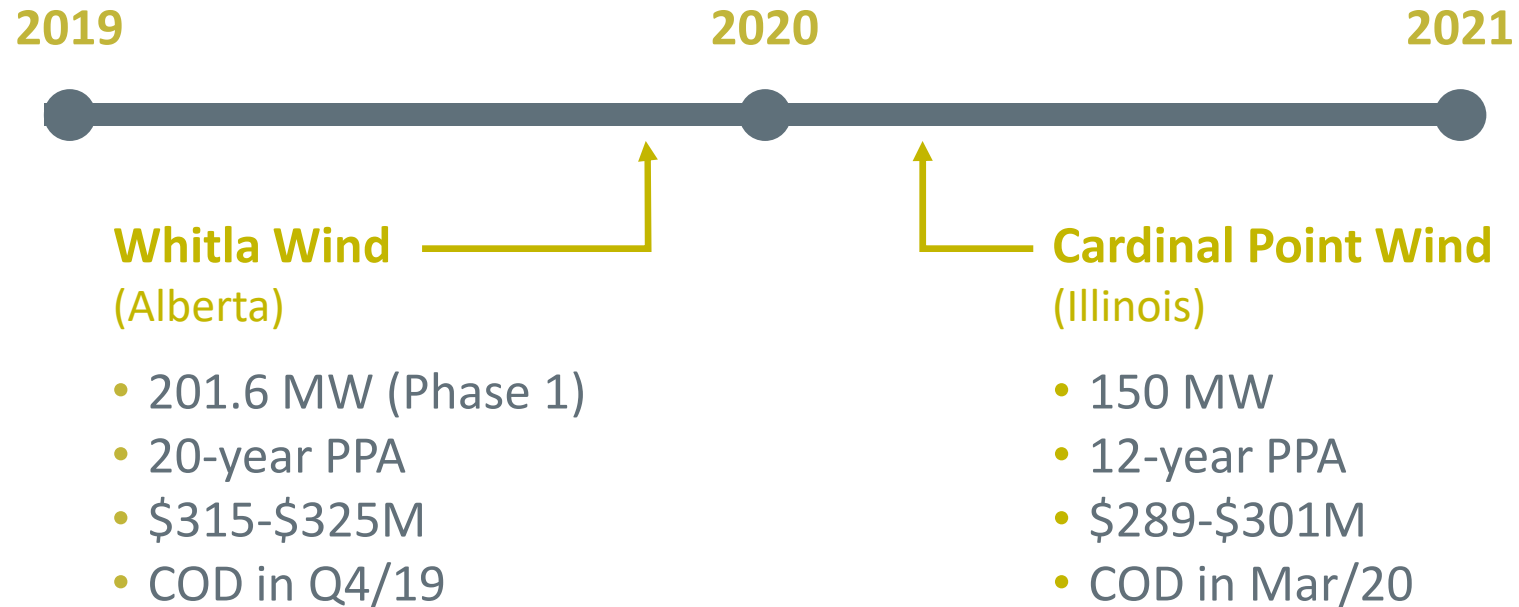
Growth Strategy

- Strong renewable pipeline including 1,200 MW of U.S. wind development
- Potential natural gas plant acquisitions
- Growth target of \$500M committed capital per year for contracted opportunities



Current projects under construction

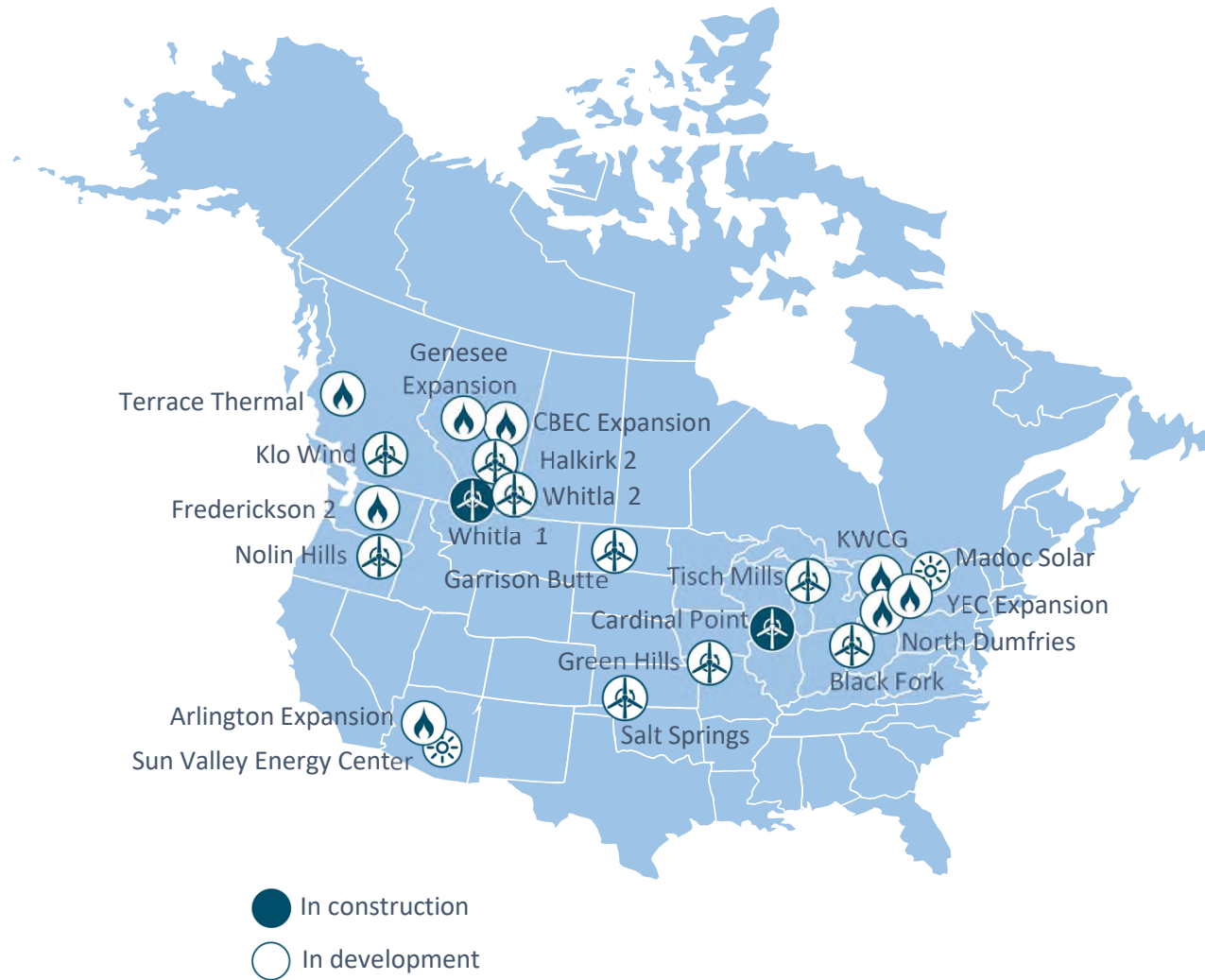
Additional 350 MWs of long-term contracted wind facilities to be added by Mar/20



Other contracted growth

- \$500 million of committed capital

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

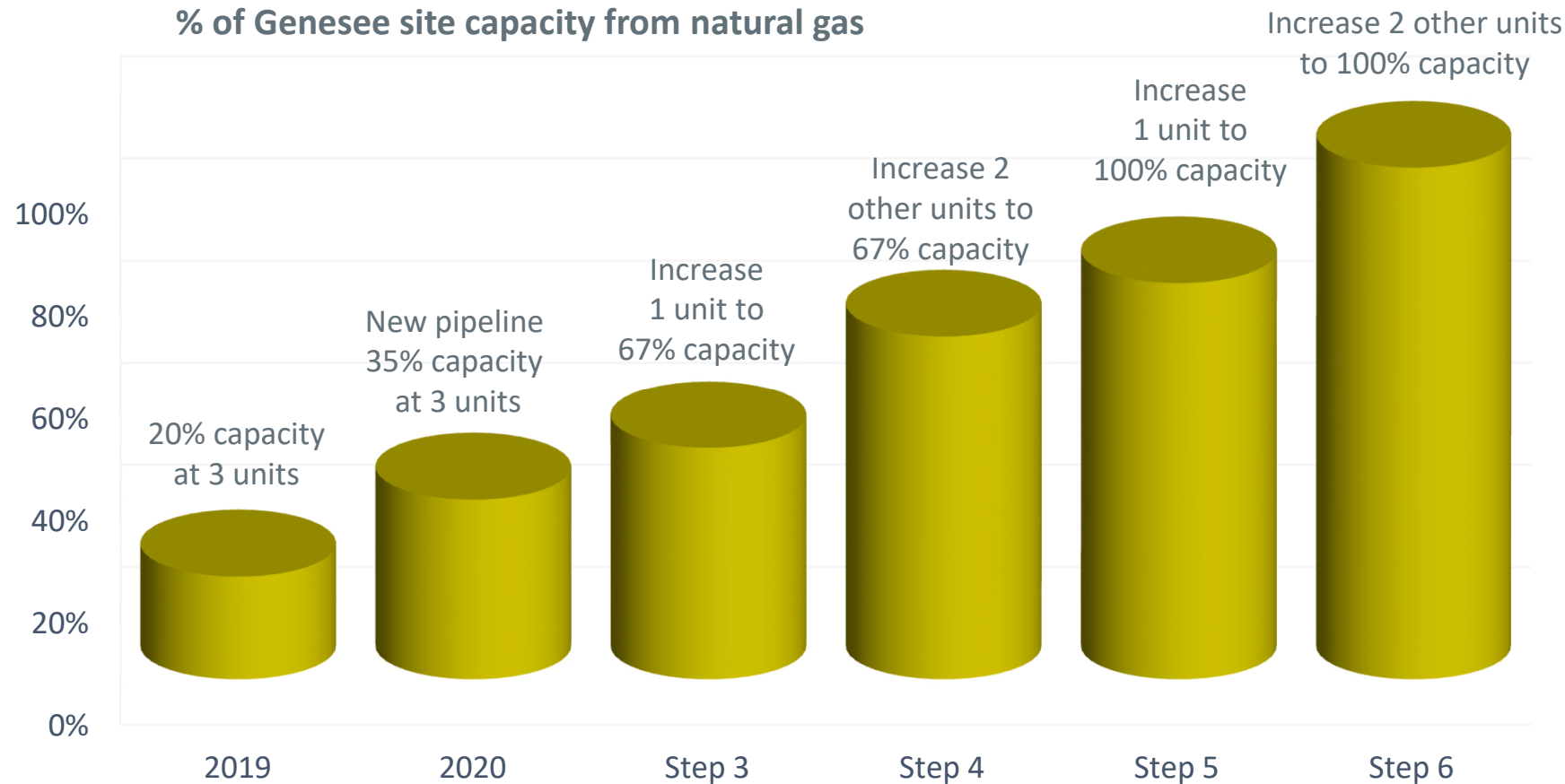
Sustainability

- Focus on building renewables
- Coal-to-gas conversion
- World leading carbon reduction program targeting 10% reduction in GHG emissions
- Carbon capture investments (C2CNT)
- Creating value with transparent Climate-related financial disclosure (TCFD)
 - Released inaugural TCFD report in Jan 2019



Coal-to-gas conversion (dual-fuel capability)

A staged approach to ensure maximal operational flexibility is maintained



- Timing dependant on market pricing & structure, carbon taxes, natural gas prices
- Conversion work can be completed within regular planned outages (2-year cycle)
- \$85M capital costs for 4 units (incl. Keephills 3)
- All the advantages from efficient coal units are transferred to converted gas units

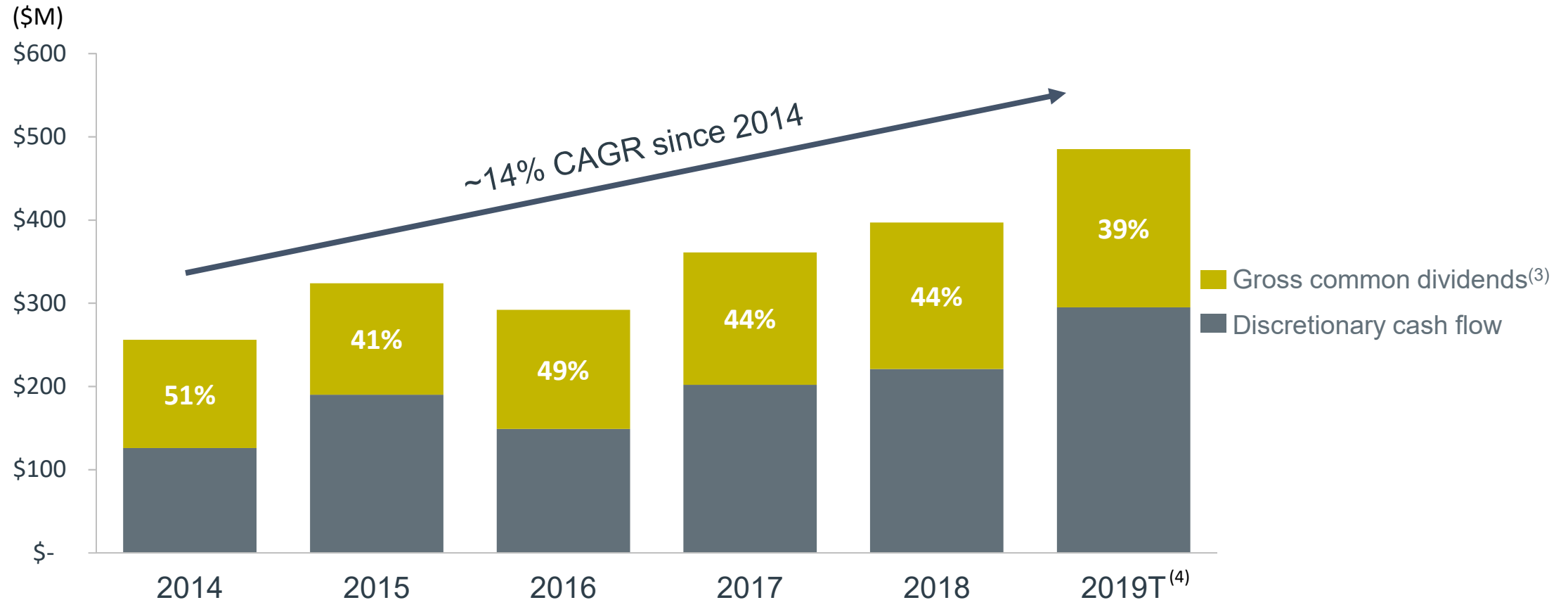
Financial

- AFFO growth supports dividend growth
- Ability to fund targeted \$500M growth per year without accessing equity markets
- Maintain investment grade credit rating



AFFO^(1,2) growth and conservative payout supports dividend growth

Expect to generate \$295M in discretionary cash flow in 2019

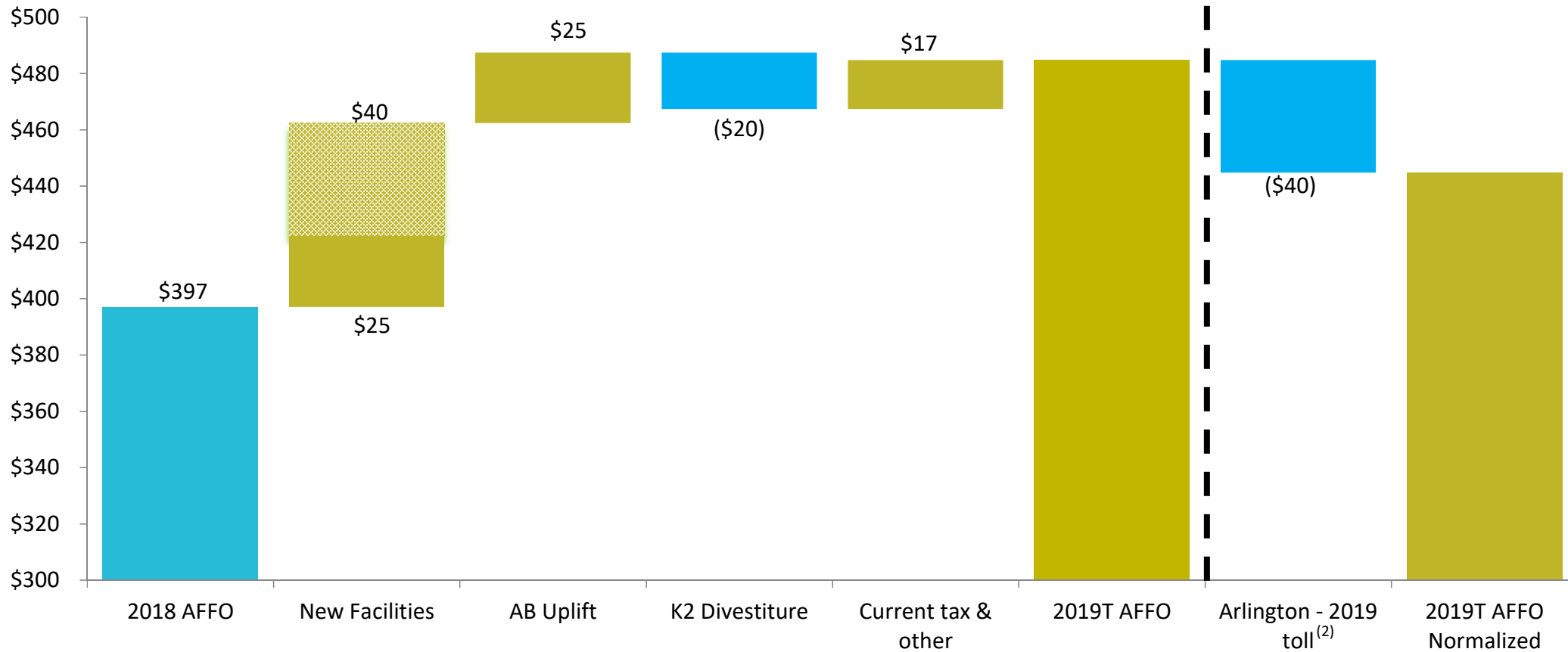


Long-term AFFO payout ratio target of 45-55%

1) AFFO is a non-GAAP financial measure. 2) Historical AFFO figures restated using Adjusted AFFO (2018 method). 3) Includes cash dividends, dividends retained under DRIP, and distributions to EPCOR. 4) 2019 represents midpoint of \$460 - \$510M guidance range.

AFFO⁽¹⁾ for 2019

Higher Alberta power prices and AFFO from Arlington and New Frontier offset K2 divestiture



12% year-over-year AFFO growth after normalizing for 2019 Arlington toll

1) AFFO is a non-GAAP financial measure.

2) Non-recurring component of 2019 Arlington Valley toll payment.

Cash flow and financing outlook

Sufficient funding for current growth projects

Sources of cash flow	2019T (\$M)
Funds from operations ⁽¹⁾ + off-coal compensation	\$615
Proceeds from disposal of K2 Wind	\$215
Debt issuances	\$650
	<hr/> \$1,480
Uses of cash flow	
Dividends (common & preferred shares)	(\$235)
Debt repayment ⁽²⁾	(\$525)
Genesee Performance Standard ⁽³⁾	(\$15)
Enhancement capex	(\$25)
Sustaining and maintenance capex	(\$85)
Development capex – Whitla & Cardinal Point	(\$515)
	<hr/> (\$1,400)
Surplus	<hr/> \$80

1) Funds from operations (FFO) is a non-GAAP financial measure.

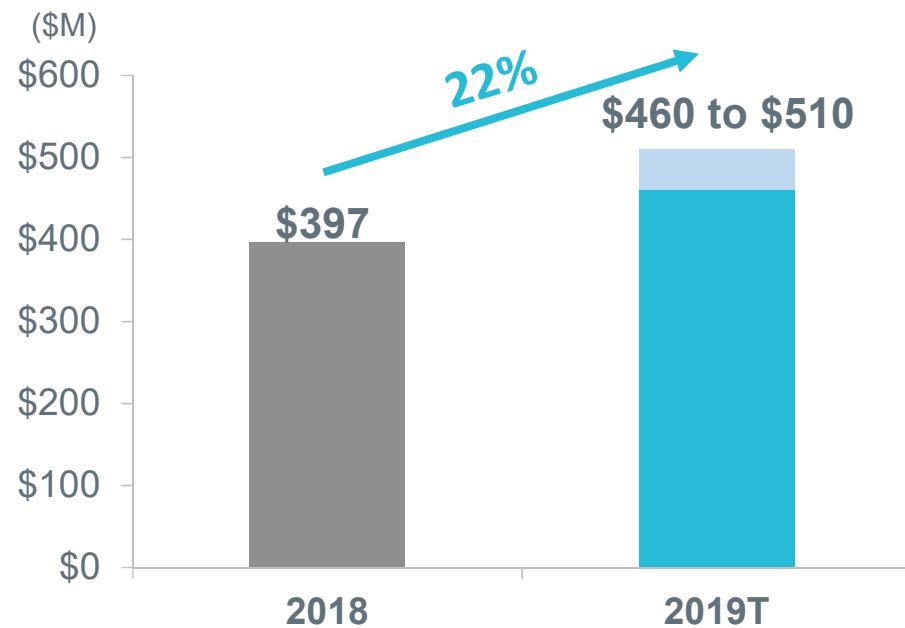
2) Excludes debt repayments to tax equity investor & equity accounted investment debt repayments. Includes principal payments on finance lease payables.

3) Genesee Performance Standard (GPS) is a program to reduce CO2 and improve coal plant efficiency. Total program costs of ~\$35M.

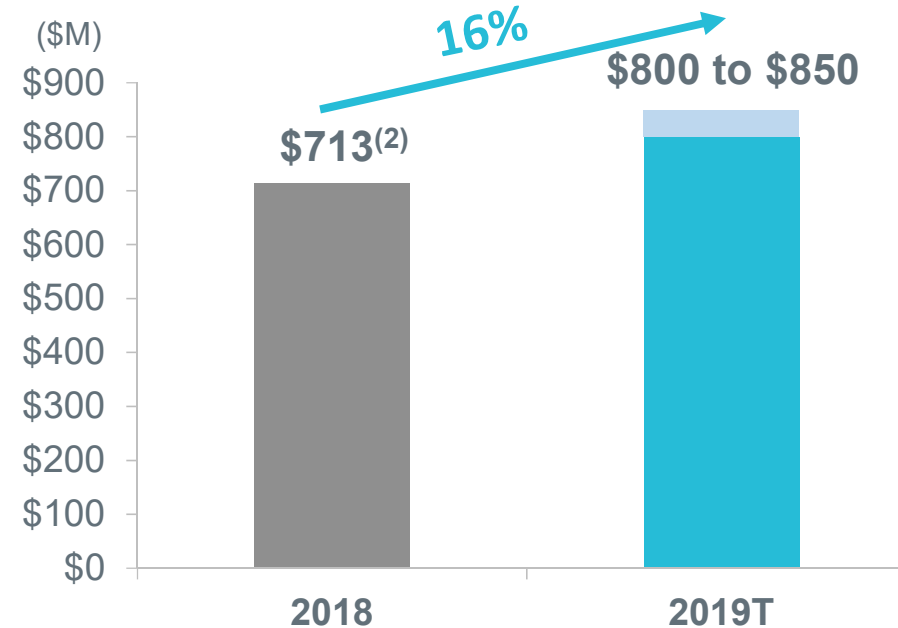
Financial targets

Strong double-digit growth in AFFO and Adjusted EBITDA

Adjusted funds from operations⁽¹⁾



Adjusted EBITDA⁽¹⁾

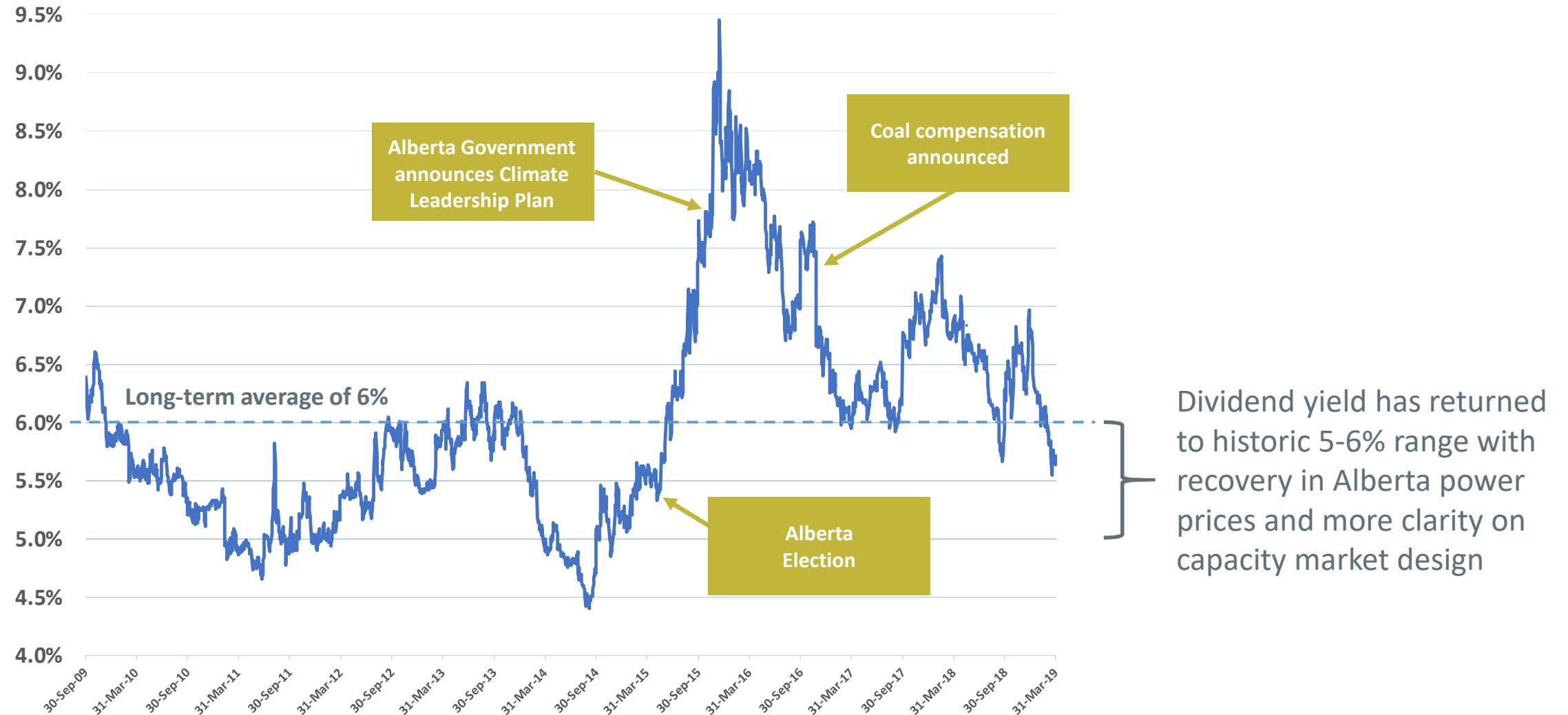


1) AFFO and Adjusted EBITDA are non-GAAP financial measures.

2) Before unrealized changes in fair value of commodity derivatives and emission credits of -\$67M.

Sustainability and dividend growth

Dividend yield



Strategically evolving our portfolio

2014
↓
2019



Generation
technology^(1,2)

33% Gas and
renewables

64% Gas and
renewables

**Renewables and
gas growth**



Contracted
capacity^(1,2)

58% Contracted

77% Contracted

Greater visibility



North American
footprint^(1,2)

76% Alberta

55% Alberta

**Geographic
diversification**



AFFO per share⁽²⁾

\$2.51

\$4.74⁽³⁾

**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 \$460M - \$510M guidance range.

Appendices

- Alberta's coal fleet
- DCF supports dividend growth
- Credit rating metrics
- Debt maturity schedule
- Summary of assets
- Projects under development/construction

Alberta's coal fleet

Retirements under federal / provincial regulations and conversion to gas

Facility	AESO max capacity (MW)	Age in 2019 (yrs)	End of coal life (CLP) ⁽¹⁾	Current Status	Coal to gas conversion Expectation	PPA status
Battle River 3	149	50	2019	Online	Co-firing with gas	Merchant
Sundance 1	288	49	2019	Retired Jan 2018		PPA expired end of 2017
H.R. Milner	144	47	2019	Return from mothball end of May 2018		Merchant
Sundance 2	288	46	2019	Retired Jul 2018		PPA expired end of 2017
Battle River 4	155	44	2025	Online	Co-firing with gas	Merchant
Sundance 3	368	43	2026	Mothballed until Nov/21	AUC approved CtG 2020-23	Returned to TA in Apr/18
Sundance 4	406	42	2027	To be mothballed Apr/19 (up to 2 yrs)	AUC approved CtG 2020-23	Returned to TA in Apr/18
Sundance 5	406	41	2028	Mothballed until Nov/21	AUC approved CtG 2020-23	Returned to TA in Apr/18
Sundance 6	401	39	2029	Online	AUC approved CtG 2020-23	Returned to TA in Apr/18
Battle River 5	385	38	2029	Online	AUC approved CtG 2019-22	Returned to ATCO Oct/18
Keephills 1	395	36	2029	Online	AUC approved CtG 2020-23	Balancing Pool; Dec/20 expiry
Keephills 2	395	35	2029	Online	AUC approved CtG 2020-23	Balancing Pool; Dec/20 expiry
Sheerness 1	400	33	2030	Online	AUC applied CtG 2019-22	Balancing Pool; Dec/20 expiry
Genesee 2	400	30	2030	Online		Balancing Pool; Dec/20 expiry
Sheerness 2	390	29	2030	Online	AUC applied CtG 2019-22	Balancing Pool; Dec/20 expiry
Genesee 1	400	25	2030	Online		Balancing Pool; Dec/20 expiry
Genesee 3⁽²⁾	466	14	2030	Online		Merchant
Keephills 3⁽²⁾	463	8	2030	Online	AUC applied CtG 2020-23	Merchant

1) Current coal regulations under Climate Leadership Plan (Alberta).

2) Capital Power and TransAlta Corporation are 50% owners on Genesee 3 and Keephills 3.

Discretionary cash flow supports dividend growth target⁽¹⁾



AFFO growth from discretionary cash flow covers 7% annual dividend growth without dilution to existing shareholders

1) Assumes a 10x EBITDA multiple and a capital structure of 50% DCF, and 50% debt issued at 7 year indicative rate of 4.8%. AFFO growth is compared to the 2019 target midpoint of \$445M, normalized for non-recurring component of Arlington Valley toll.

2) AFFO includes a reduction of \$2M from expected maintenance CAPEX.

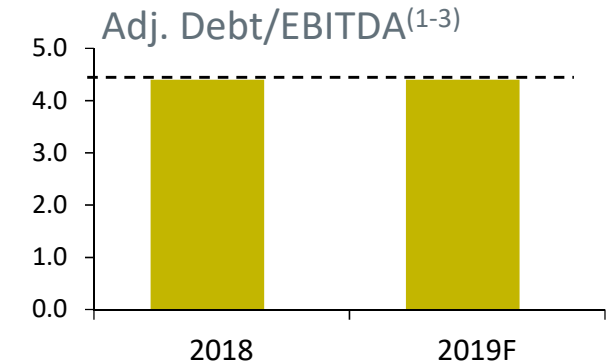
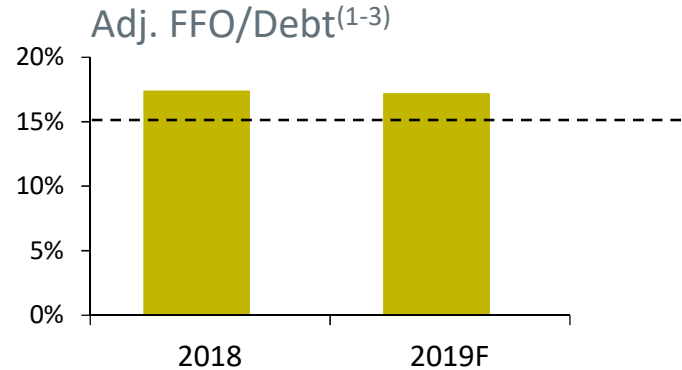
Financial strength

Strong balance sheet and commitment to investment grade credit ratings

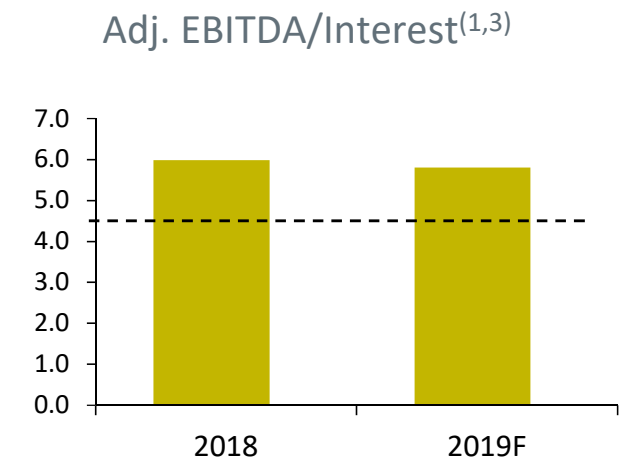
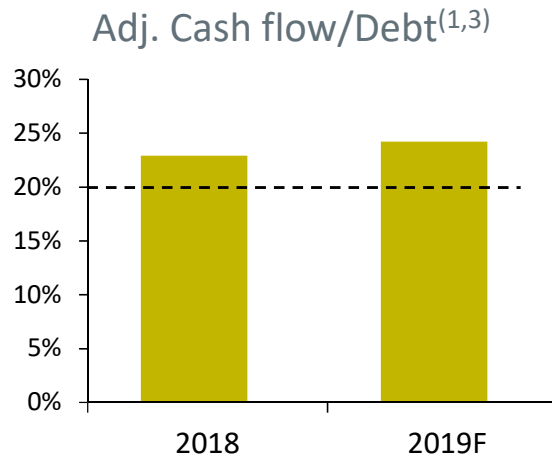
Agency	Ratings	Outlook
S&P	BBB- / P-3	Stable
DBRS	BBB(low) / Pfd-3 (low)	Stable

- Strong liquidity from cash flow from operations and \$1B of committed credit facilities with 5-year tenor
- Strong financial metrics that exceed rating agency thresholds for existing ratings

Within S&P financial criteria for current rating



Within DBRS financial criteria for current rating



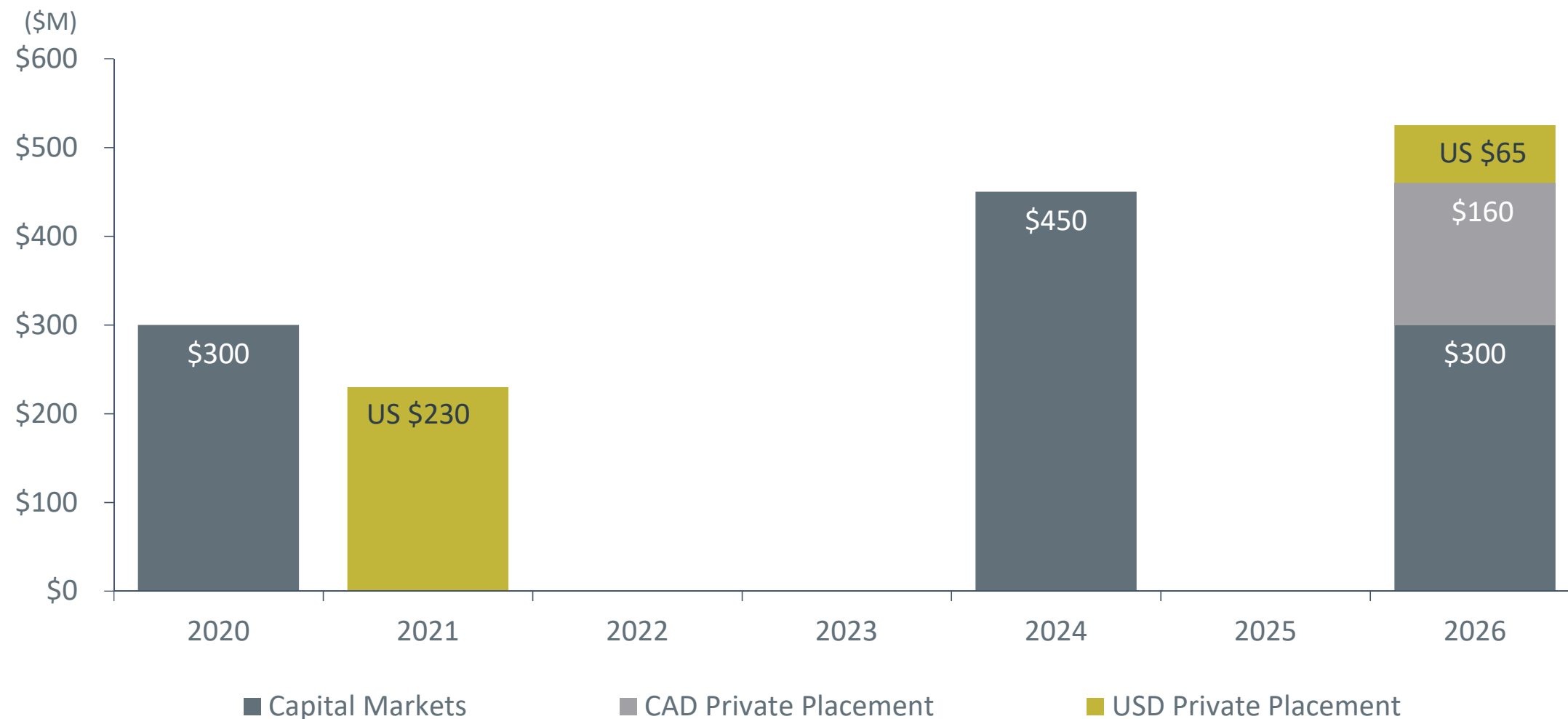
1) Cash flow and Adjusted EBITDA amounts include off-coal compensation.

2) Based on S&P's weighted average ratings methodology.

3) 2019F means 2019 forecast.

Debt maturity schedule⁽¹⁾

Well spread-out debt maturities supported by long asset lives



1) Debt amounts as of March 1, 2019 excludes non recourse debt, credit facility debt, and tax-equity financing. \$250 million matured February 21, 2019 and was funded by credit facilities.

Summary of assets

	Alberta Contracted		Alberta Commercial						
	Genesee 1	Genesee 2	Genesee 3	Keephills 3	Joffre	Clover Bar Energy Centre	Clover Bar Landfill	Halkirk	Shepard Energy Centre
Capacity	430 MW	430 MW	516 MW	516 MW	480 MW	243 MW	5 MW	150 MW	800 MW
% owned / operated	100 / 100	100 / 100	50 / 100	50 / 0	40 / 0	100 / 100	100 / 100	100 / 100	50% / 0%
Location	Warburg	Warburg	Warburg	Wabamun	Joffre	Edmonton	Edmonton	Halkirk	Calgary
Fuel & equipment	Coal (50% ownership of coal mine)	Coal (50% ownership of coal mine)	Coal (50% ownership of coal mine)	Coal	Natural gas (Combined cycle cogeneration)	Natural gas (Two 100 MW GE LMS100 turbines; 43 MW GE LM6000)	Landfill gas	Vestas wind turbines	Natural gas (Combined cycle; two Mitsubishi G-Class natural gas turbines; steam turbine)
Commercial Operations	1994	1989	2005	2011	2000	Unit 1 in 2008; units 2&3 in 2009	2005	2012	2015
PPA Expiry	2020	2020	Merchant	Merchant	Primarily merchant with some revenues under contract	Merchant	Merchant	Large portion of total revenues from 20-year REC sale agreement / Merchant	20-year tolling agreement on 50% of Capital Power's output

Summary of assets

	Ontario & British Columbia Contracted							
	Island Generation	Quality Wind	Savona	150 Mile House	Port Dover & Nanticoke	Kingsbridge 1	York Energy	East Windsor
Capacity	275 MW	142 MW	5 MW	5 MW	105 MW	40 MW	400 MW	84 MW
% owned / operated	100 / 100	100 / 100	100 / 0	100 / 0	100 / 100	100 / 100	50 / 100	100 / 100
Location	Campbell River, BC	Tumbler Ridge, BC	BC	BC	Counties of Norfolk and Haldimand, Ontario	Goderich, Ontario	Township of King, Ontario	Windsor, Ontario
Fuel & equipment	Natural gas (Combined cycle - Alstom GT24B gas turbine & Alstom steam turbine)	Vestas wind turbines	Waste Heat	Waste Heat	Vestas wind turbines	Vestas wind turbines	Natural gas (Simple cycle; two Siemens SGT6-5000F combustion turbine generators)	Natural gas (Cogeneration; two GE LM 6000PD turbines)
Commercial Operations	2002	2012	2008	2008	2013	2006, 2001	2012	2009
PPA Expiry	2022	2037	2028	2028	2033	2026 / 2027	2032	2029

Summary of assets

	U.S. Contracted							
	Roxboro	Southport	Macho Springs	Beaufort Solar	Decatur	Bloom Wind	Arlington Valley	New Frontier Wind
Capacity	46 MW	88 MW	50 MW	15 MW	795 MW	178 MW	580 MW	99 MW
% owned / operated	100 / 100	100 / 100	100 / 100	100 (sale & leaseback) / 100	100 / 100	100 / 100	100 / 100	100 / 100
Location	Roxboro, North Carolina	Southport, North Carolina	Luna County, New Mexico	Beaufort County, North Carolina	Decatur, Alabama	Ford and Clark Counties, Kansas	Phoenix, Arizona	McHenry County, North Dakota
Fuel & equipment	Mixture of wood residuals, tire-derived fuel and coal	Mixture of wood residuals, tire-derived fuel and coal	Vestas wind turbines	Solar	Natural gas (Combined cycle; 3X1 CCGT Siemens 501FD2 combustion turbines)	Vestas wind turbines	Natural gas (two GE 7FA combustion turbines)	Vestas wind turbines
Commercial Operations	1987	1987	2011	2015	2002	2017	2002	2018
PPA Expiry	2021	2021	2031	2030	2022	2027	2025	2030

Projects under development / construction

	Alberta Commercial	Alberta Contracted	U.S. Contracted
	Genesee 4&5	Whitla Wind (Phase I)	Cardinal Point Wind
Capacity	Up to 1,060 MW	201.6 MW	150 MW
% owned / operated	50 / 100	100 / 100	100 / 100
Location	Warburg	Medicine Hat	McDonough / Warren Counties, Illinois
Fuel & equipment	Combined-cycle natural gas (Mitsubishi J-Class natural gas turbine technology)	Wind	Wind (technology to be determined)
Expected Commercial Operations	To be determined	Q4 2019	March 2020
PPA Expiry	8-year tolling arrangement with ENMAX for 50% of Capital Power's share of the output.	20-year contract-for-differences structured contract	12-year fixed price contract
Expected Capital Cost	\$1.4B for total project (excluding interest during construction and refundable transmission system contribution payments)	\$315M to \$325M	\$289M to \$301M

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, and gains or losses on disposals (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 February 15, 2019 for 2018, which is available under the Company's profile on SEDAR at SEDAR.com and on the Company's website at capitalpower.com.

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),
- the impact of the transition to a capacity market on the Company's future growth projects including the Genesee 4 and 5 project,
- expectations pertaining to the financial impacts of the acquisition of Arlington Valley, including the impacts to adjusted funds from operations, adjusted funds from operations per share and adjusted EBITDA,
- re-contracting of the Arlington Valley facility,
- 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, and
- impacts of future IFRS standards and amendments.

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. 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, and
- other matters discussed under the Performance Overview and Outlook and Targets for 2019 sections of the Company's MD&A for the fourth quarter of 2018, and
- anticipated performance of the acquired Arlington Valley facility.

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 Arlington Valley acquisition,
- 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.

Common Shares

- **TSX Symbol:** CPX
- **S&P/TSX Index Inclusions:** Composite, Canadian Dividend Aristocrats, Small Cap, Capped Utilities
- **Market Cap:** \$3.2 billion
- **Shares Outstanding:** 102 million shares
- **Average Daily Trading Volume:** 475,000

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