

# Delivering a *Sustainable Future*

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Investor Presentation

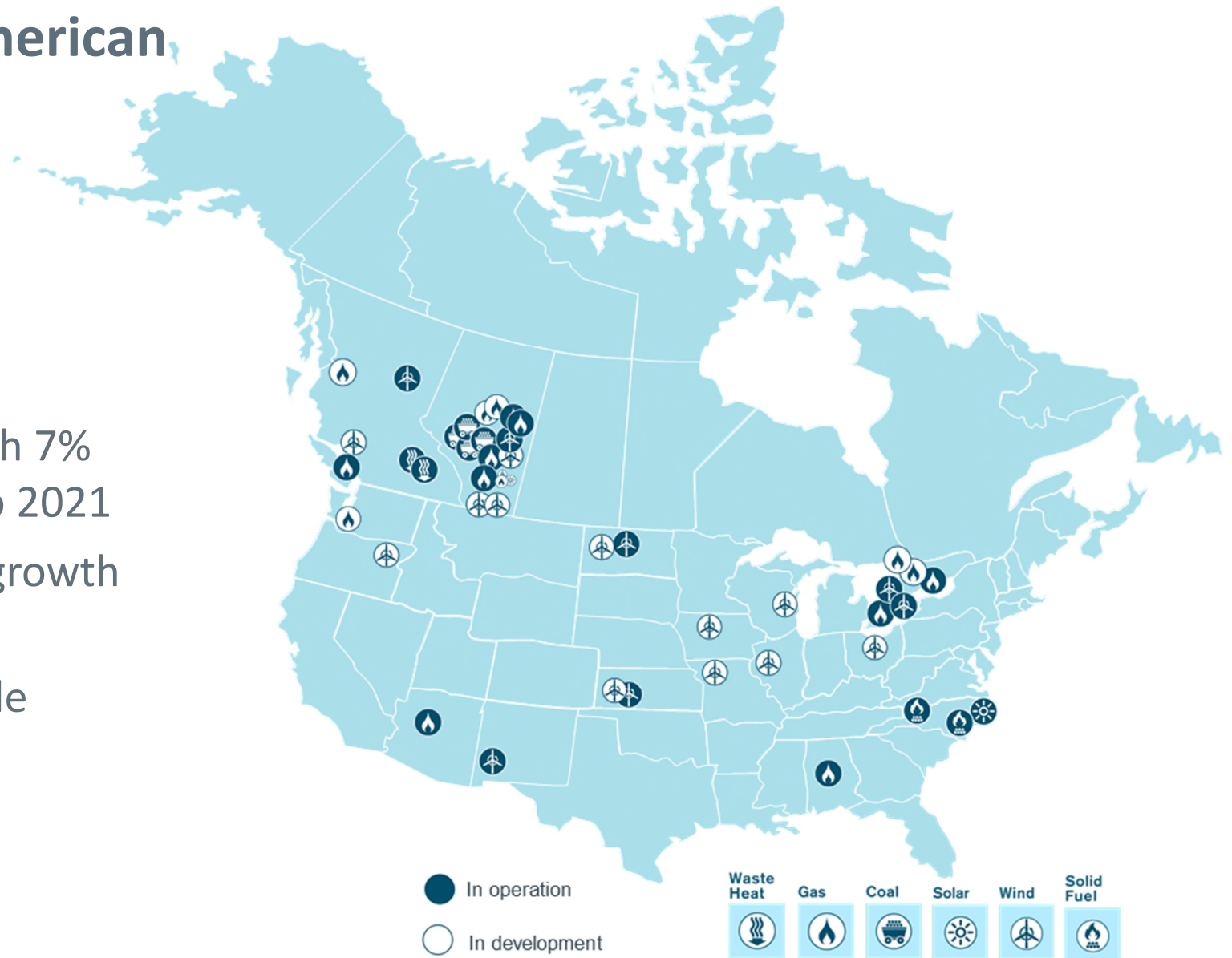
January 2019



Capital  
Power 

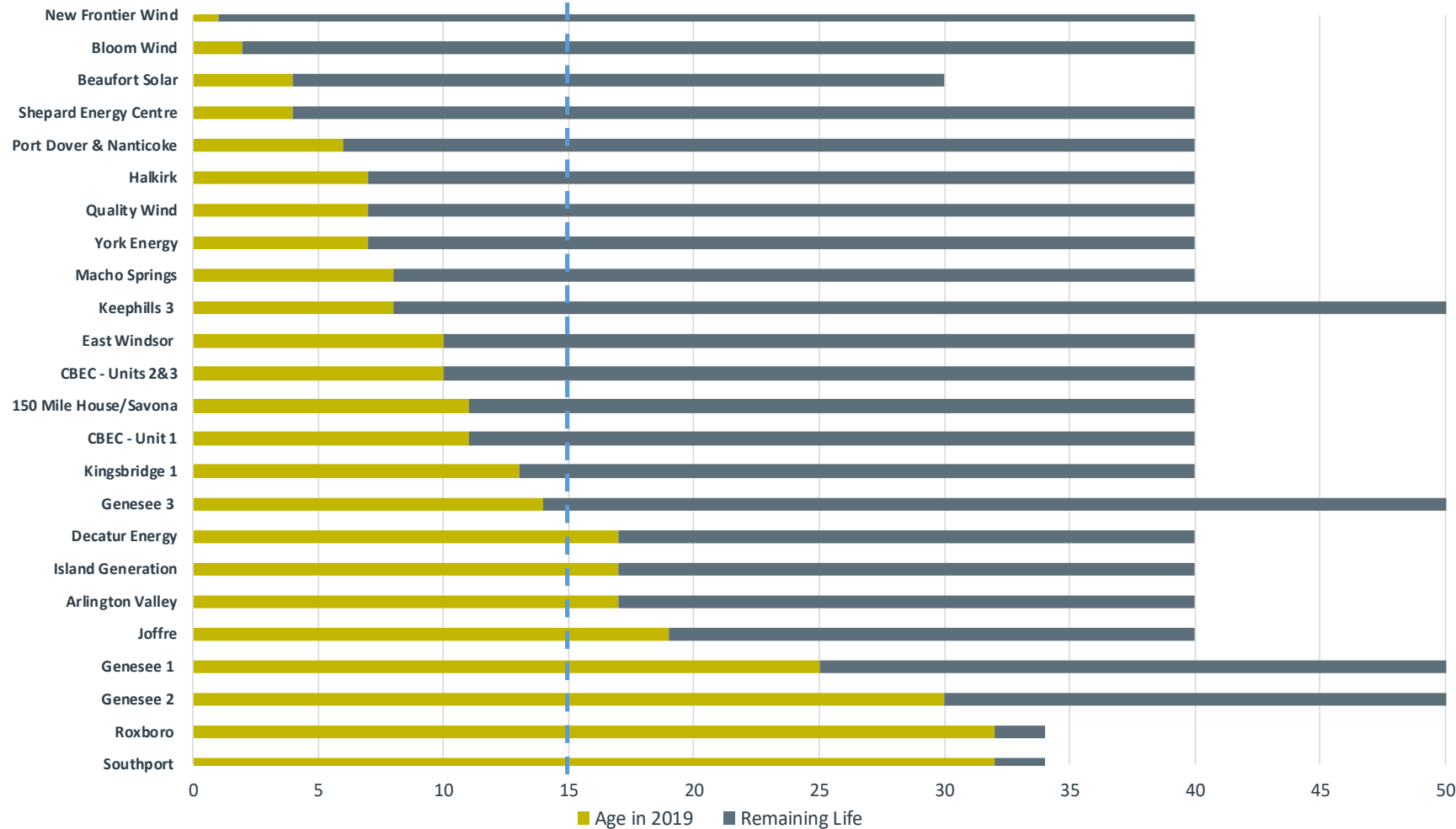
# Growth-oriented North American power producer

- 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<sup>(1)</sup>



95%

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

3%

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

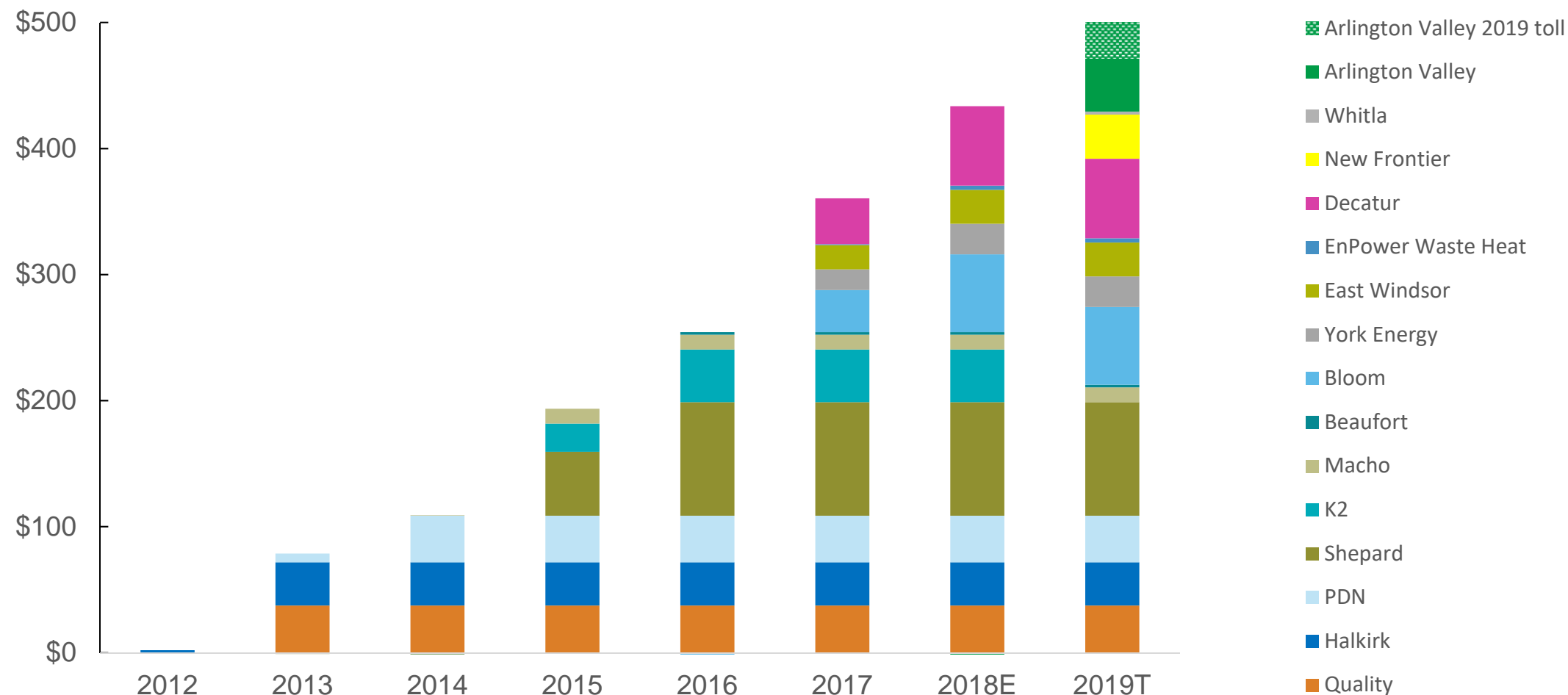
11  
Years<sup>(2)</sup>

Average PPA term  
remaining

1) Megawatt-weighted average.

2) Based on 2018 EBITDA. Includes Off-Coal Agreement with the Province of Alberta and excludes Genesee 1 & 2 PPA.

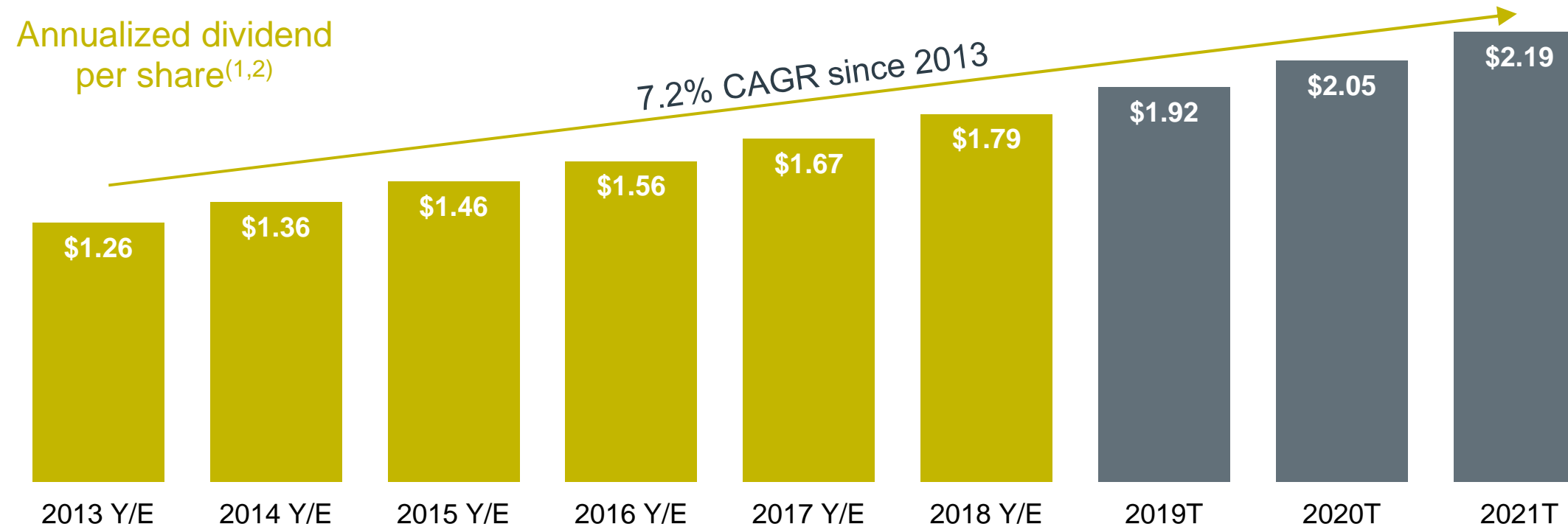
# EBITDA from new assets has supported dividend growth<sup>(1-5)</sup>



**Growth capex since 2012 averages ~\$500M<sup>(5)</sup> 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.

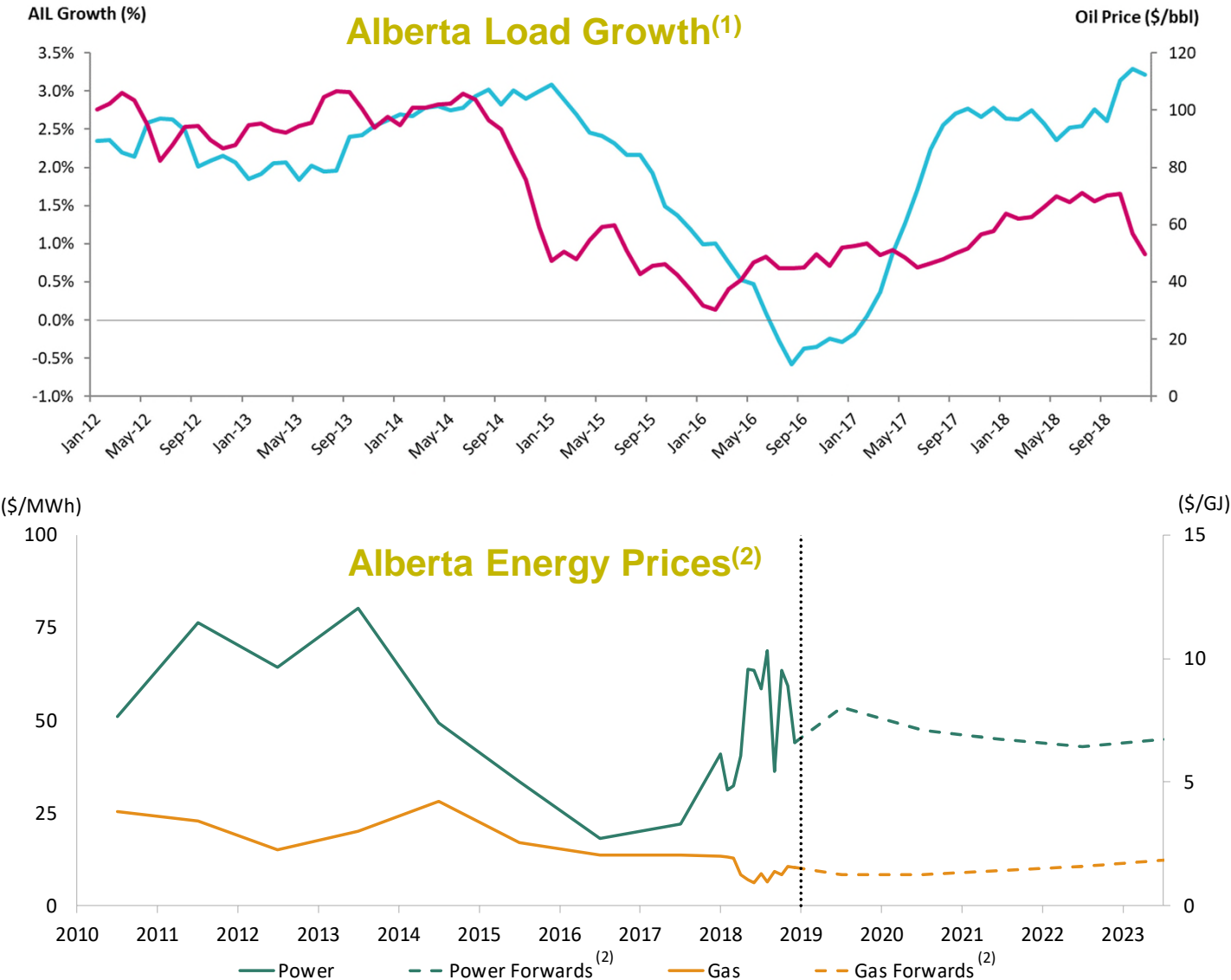


# Alberta Power Market

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



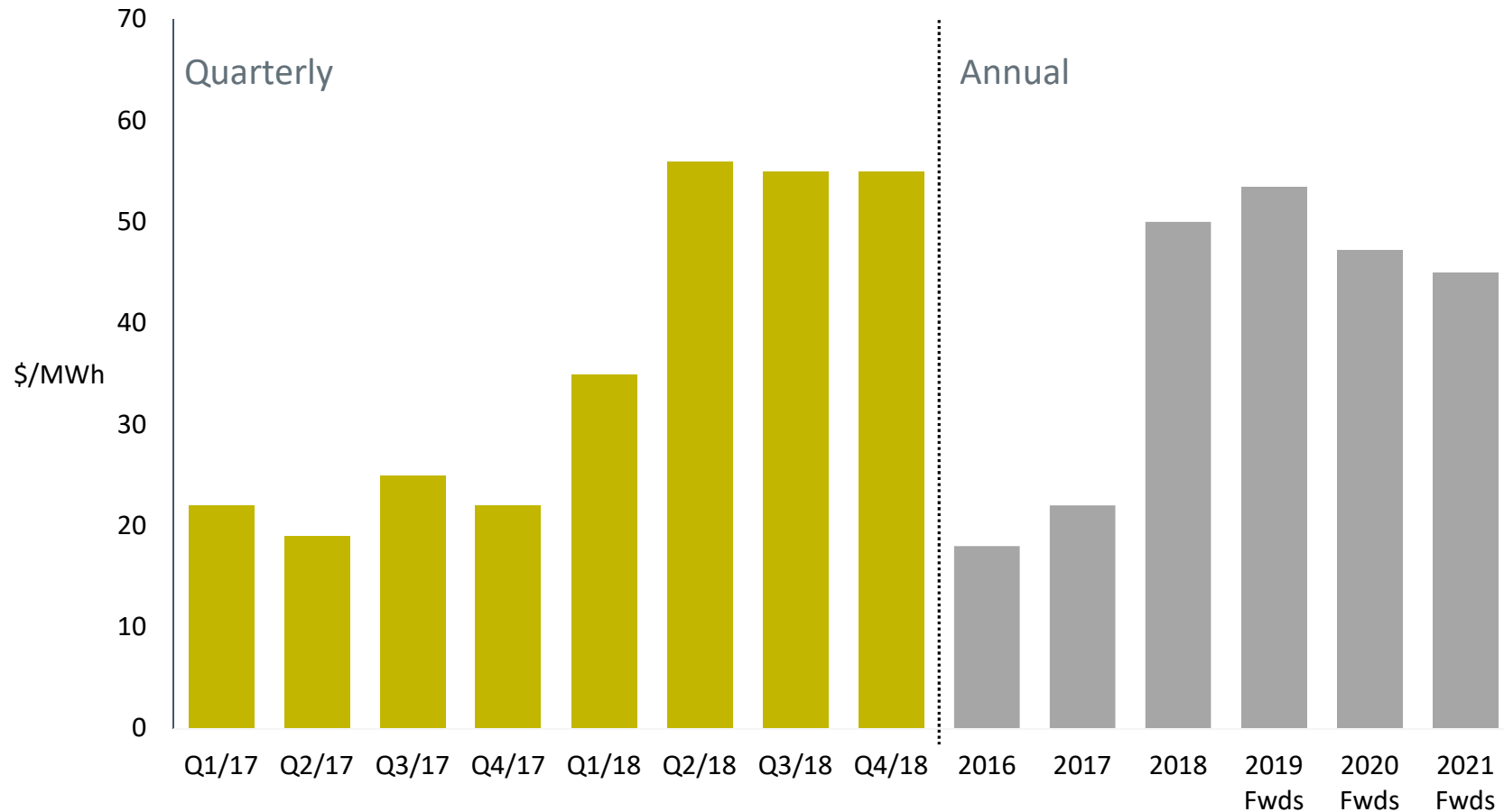
# Positive Alberta power market fundamentals



- Alberta is experiencing strong demand growth
- New summer peak record of 11,169 MW on Aug 10/18
- Older coal fired units have started to retire
- Termination of 2,000 MW of PPAs have facilitated commercial optimization

1) Alberta Internal Load normalized for weather. Source: Capital Power, EIA.  
 2) Monthly details shown for the year 2018. Forward prices as of January 2019.

# Stable outlook in Alberta power prices



## Material improvement in 2018 power prices

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

1) Forward prices as of January 2019.

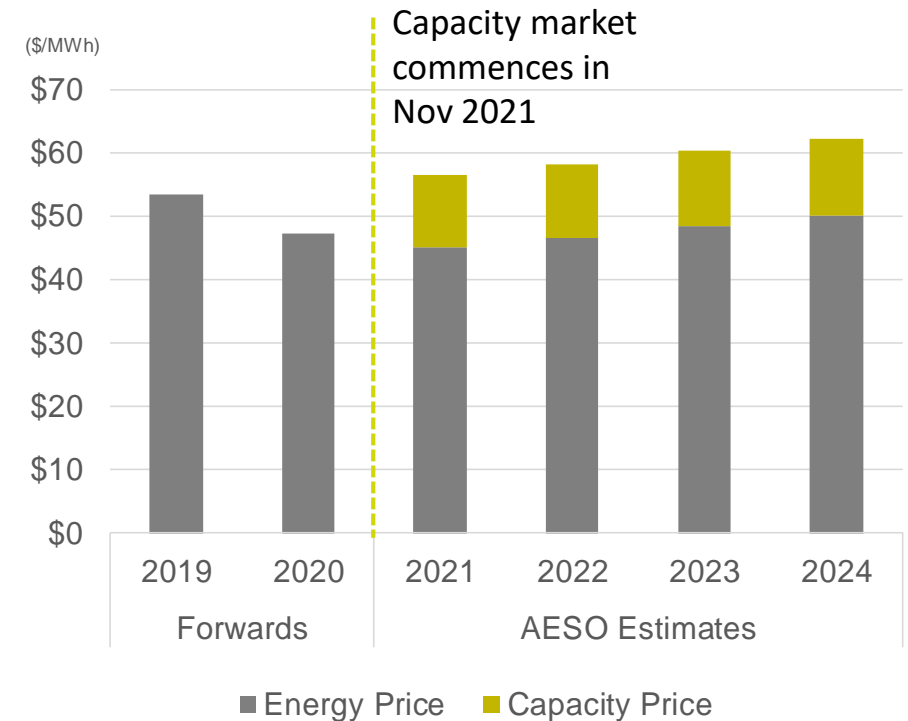


# Capacity market design

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

- AESO has finalized its proposed market design
- Design is constructive and provides an equal opportunity for existing and new assets 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 commitments awarded in 2020 for delivery in November 2021

AESO's forecast revenue for baseload facilities



AESO's forecast of \$55-\$65/MWh for the combined capacity and energy payments will allow existing and future assets an opportunity to earn a return on/of capital

# Portfolio optimization

## AB commercial portfolio positions

	2019	2020	2021
% sold forward <sup>(1)</sup>	73%	31%	1%
Contracted prices <sup>(2)</sup> (\$/MWh)	Low-\$50	Low-\$50	Low-\$70 <sup>(3)</sup>
Forward prices <sup>(4)</sup> (\$/MWh)	\$56	\$46	\$45
EBITDA sensitivity to a \$5/MWh change in spot prices <sup>(5)</sup> (\$M)	\$16	\$28	\$67

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 net 2021 position is abnormally high due to low net volume sold forward where gross sales were transacted at higher prices than gross purchases.

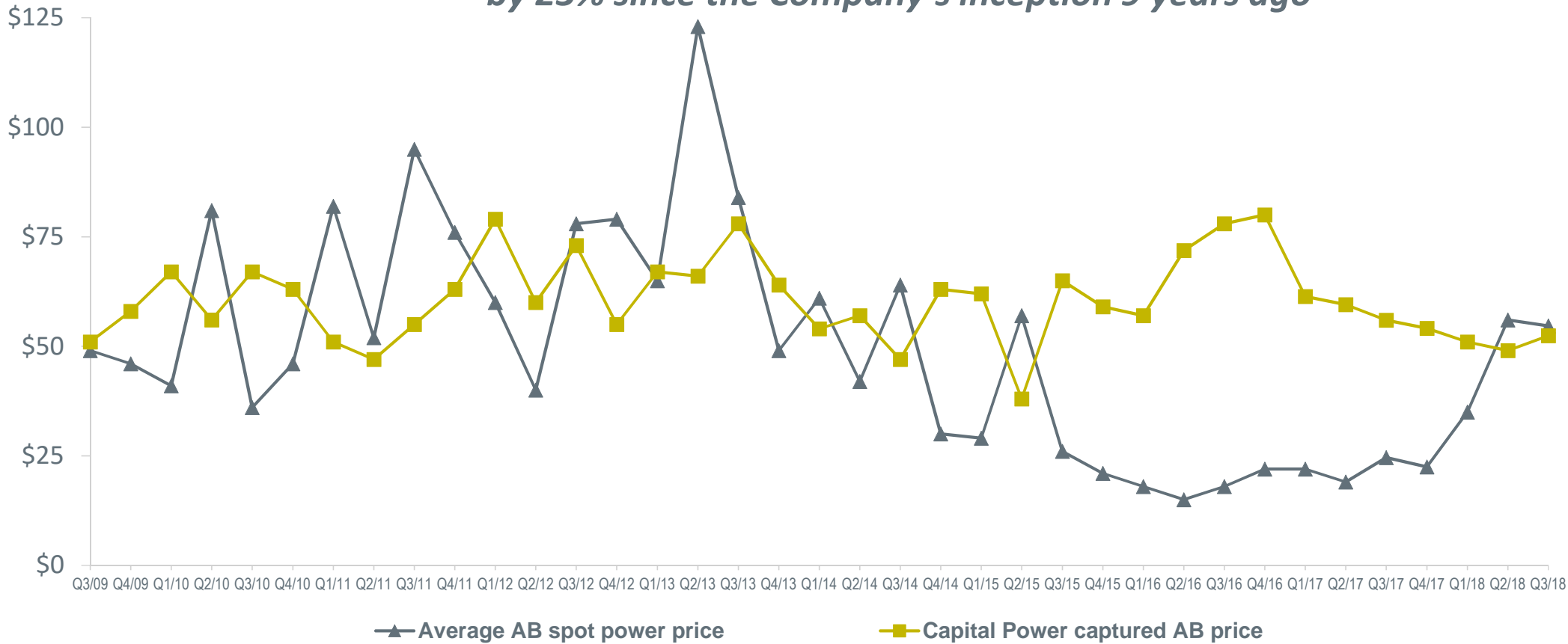
4) Forward prices as of November 30, 2018.

5) Includes both baseload and non-baseload positions.

# Maximizing the Alberta commodity portfolio

Creating incremental value and stability through market expertise

*Average realized power prices<sup>(1)</sup> have exceeded spot power prices by 23% since the Company's inception 9 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



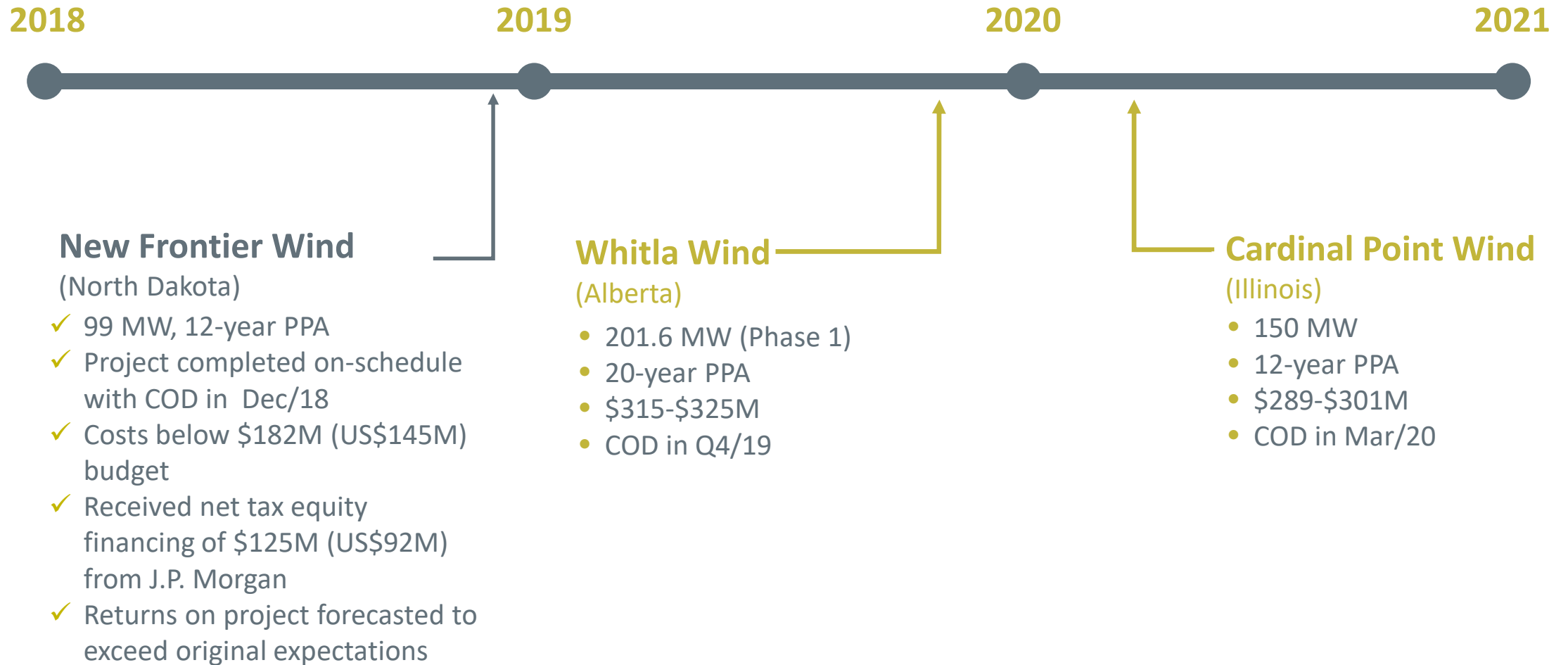
# Growth Strategy

- 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

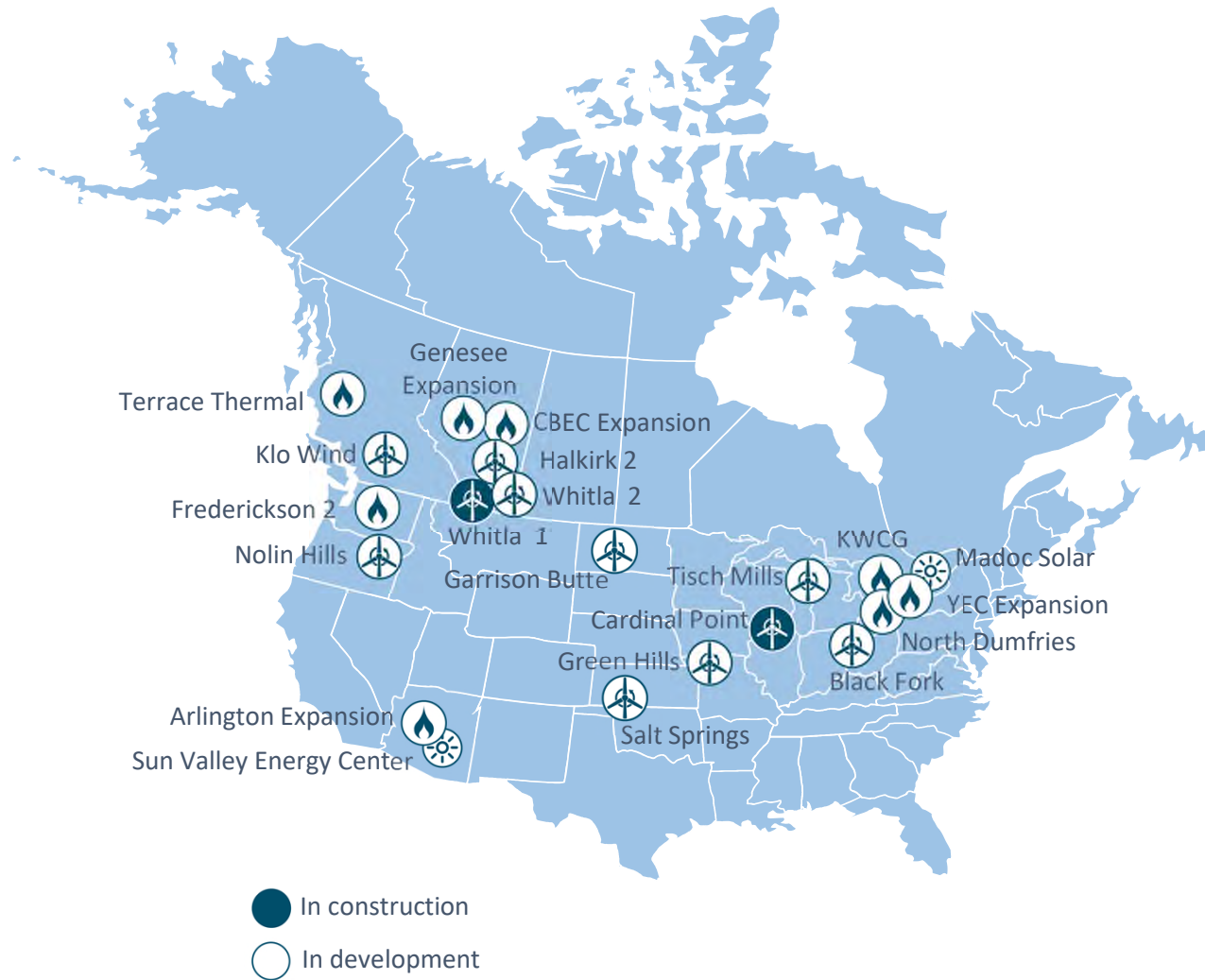


# Current projects under construction/development

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



# 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 Strategy

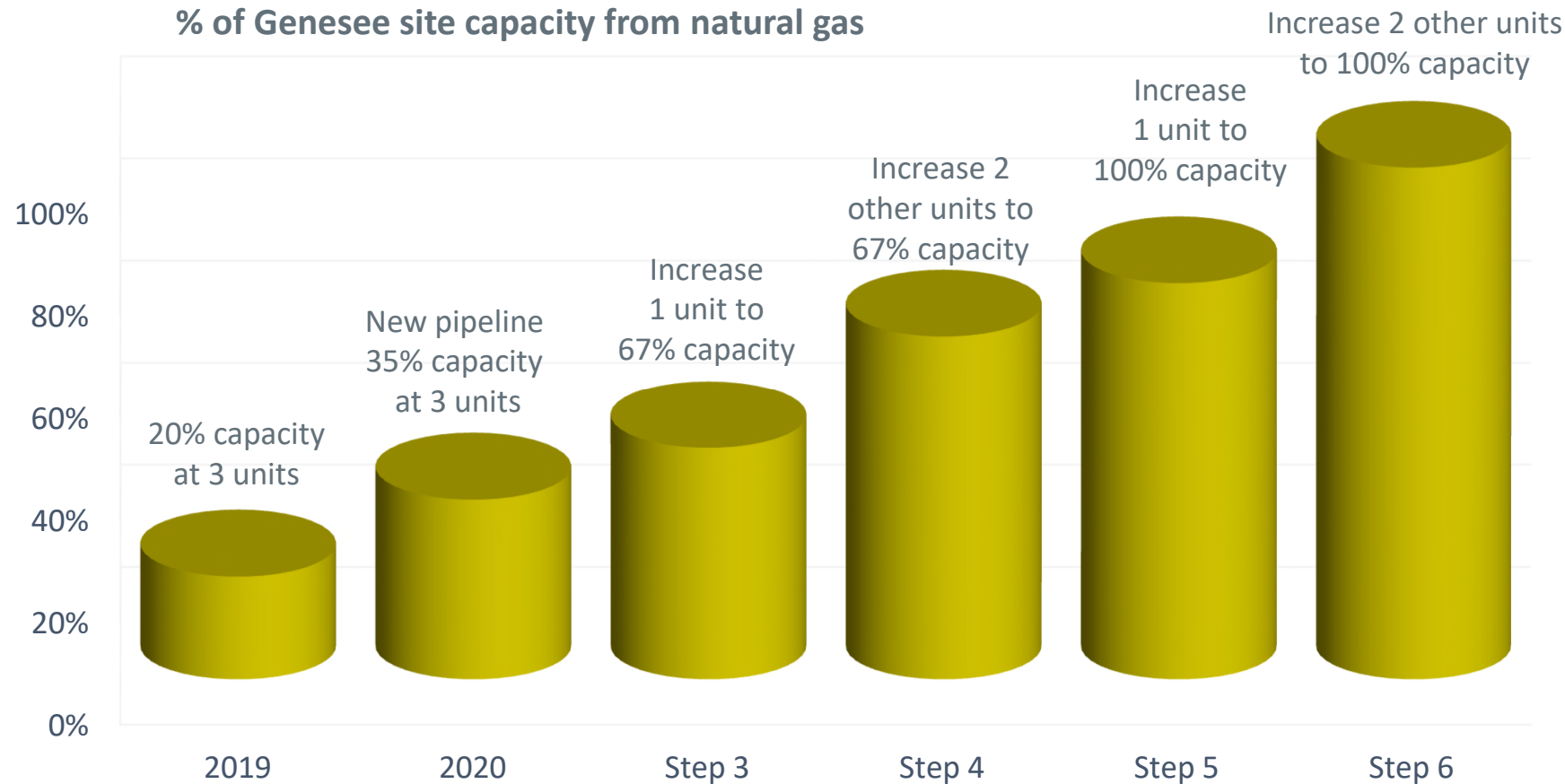
- Focus on building renewables
- Leveraging low natural gas prices by co-firing gas at coal facilities
- Coal-to-gas conversion
- World leading carbon reduction program targeting 10% reduction in GHG emissions
- Carbon capture investments (C2CNT)





# 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

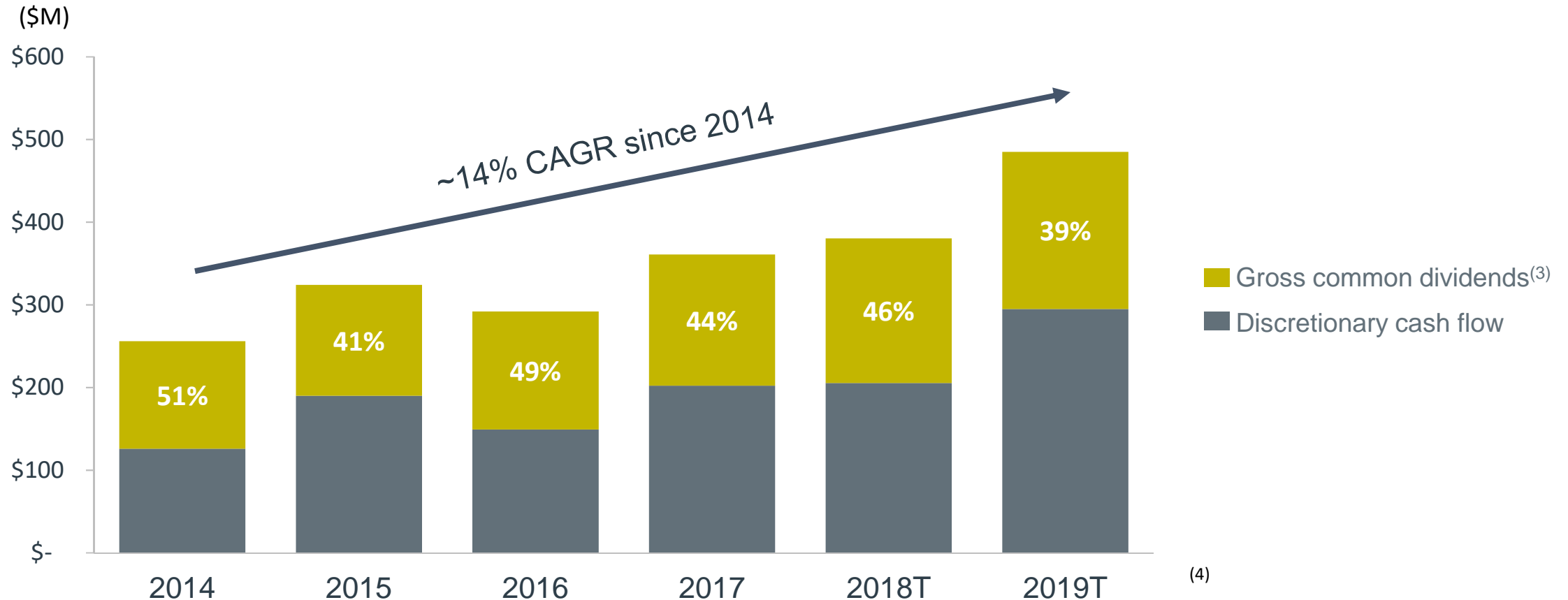
# Financial

- AFFO growth supports dividend growth
- Ability to fund targeted \$500M growth per year without accessing equity markets
- Share price appreciation driven by dividend growth and risk reduction



# AFFO<sup>(1,2)</sup> growth and conservative payout supports dividend growth

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

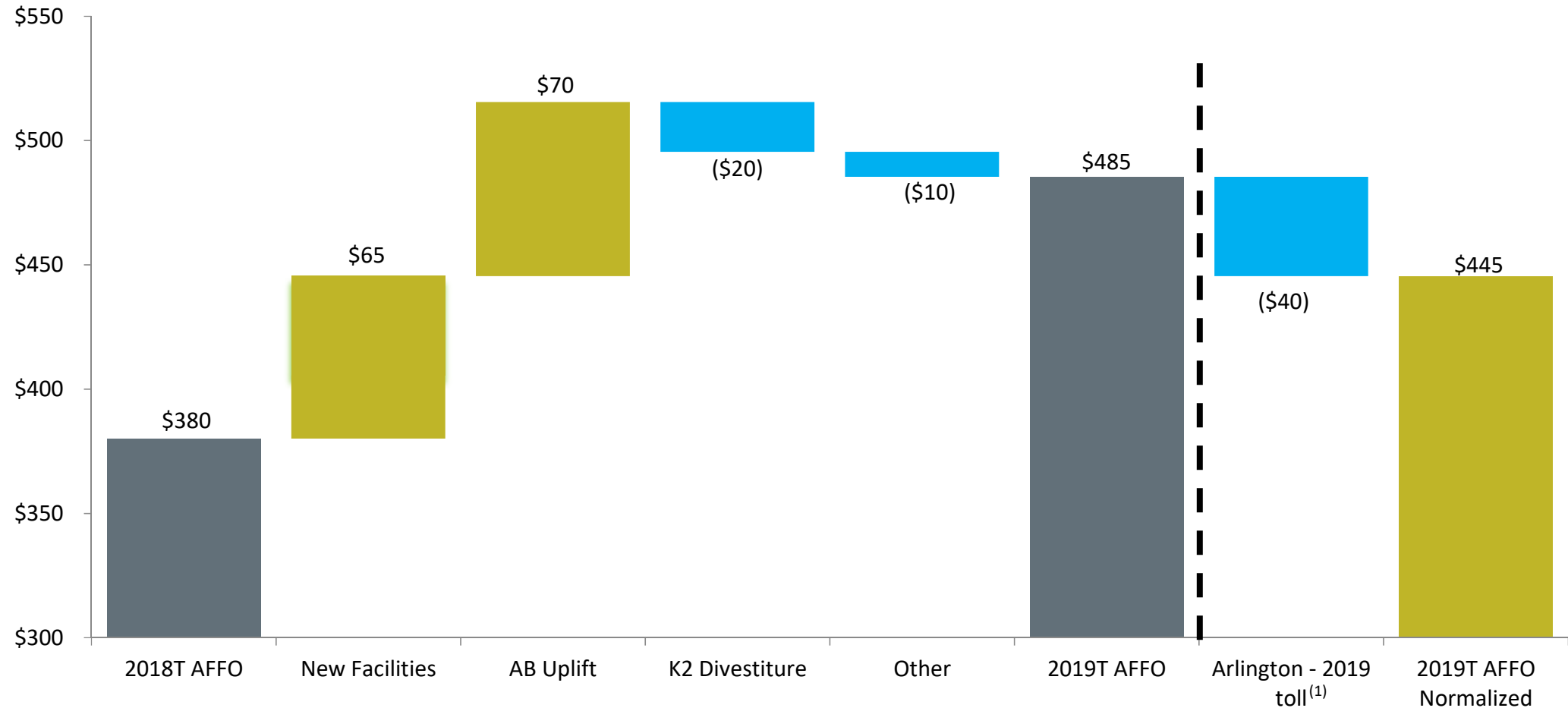


**Long-term AFFO payout ratio target of 45-55%**

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 for 2019

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



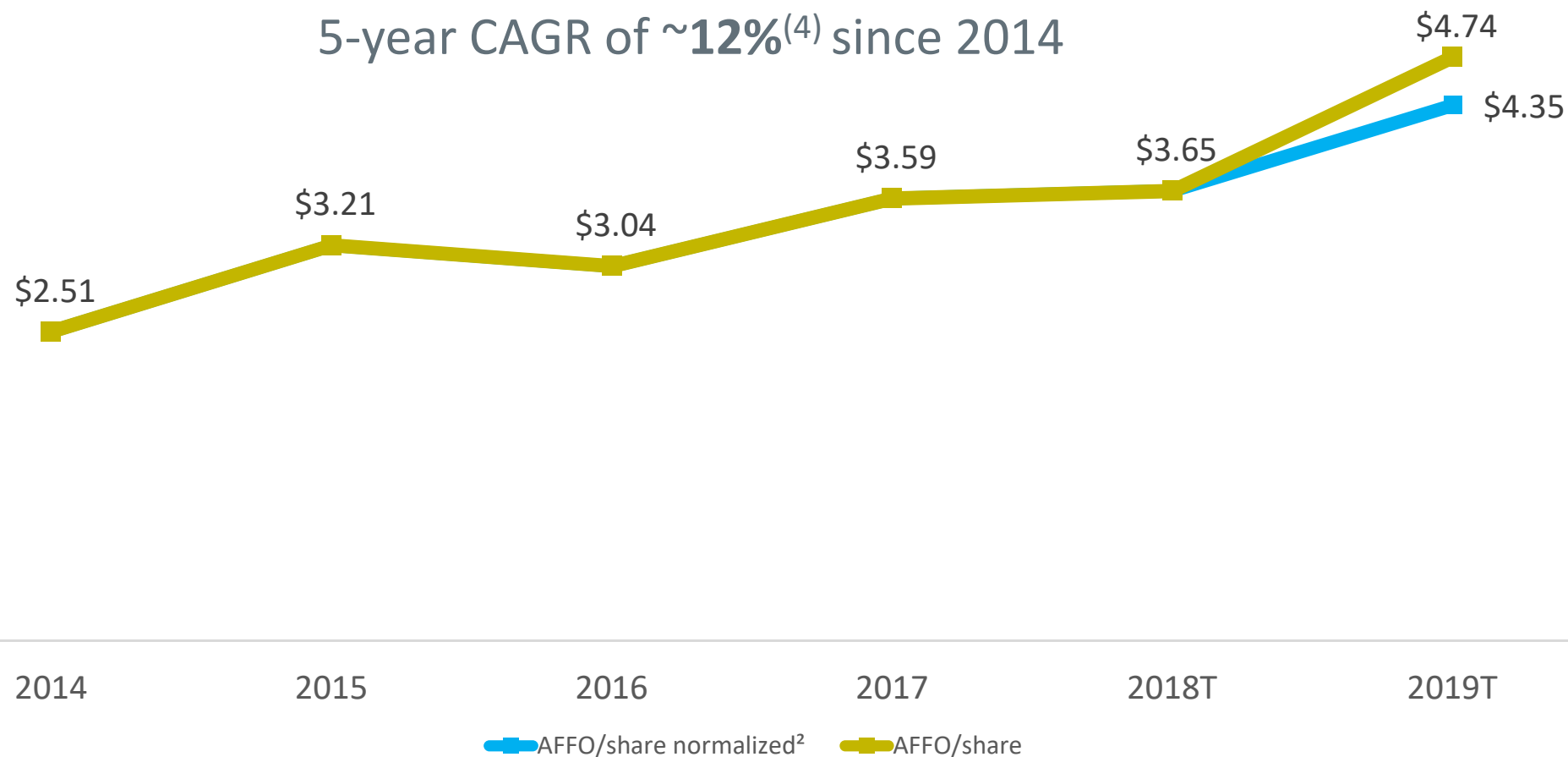
**17% year-over-year AFFO growth after normalizing for 2019 Arlington toll**

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



# Growing AFFO<sup>(1,3)</sup> per share

5-year CAGR of ~**12%**<sup>(4)</sup> since 2014



- 1) Represents Adjusted FFO (2018 method), less the portion allocated to the non-controlling interest (calculated consistent with the proportion of income and distributions allocated to the non-controlling interest in each period). Commencing in 2016, there is no longer a non-controlling interest, therefore, for 2016 onward this metric reflects adjusted FFO (2018 method).
- 2) 2019 normalized for non-recurring component of 2019 Arlington Valley toll payment.
- 3) 2019 is based on midpoint of \$460M - \$510M guidance range.
- 4) 5-year CAGR from 2014 to 2019 based on normalized AFFO per share for 2019.

# Cash flow and financing outlook

## Sufficient funding for current growth projects

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

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

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

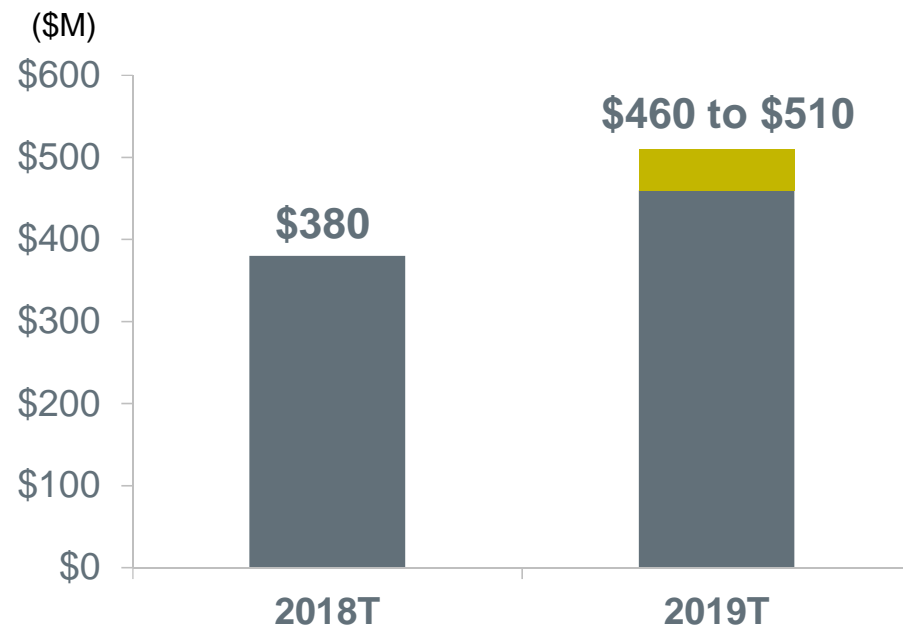
3) Funds from operations (FFO) is a non-GAAP financial measure.

# Financial targets

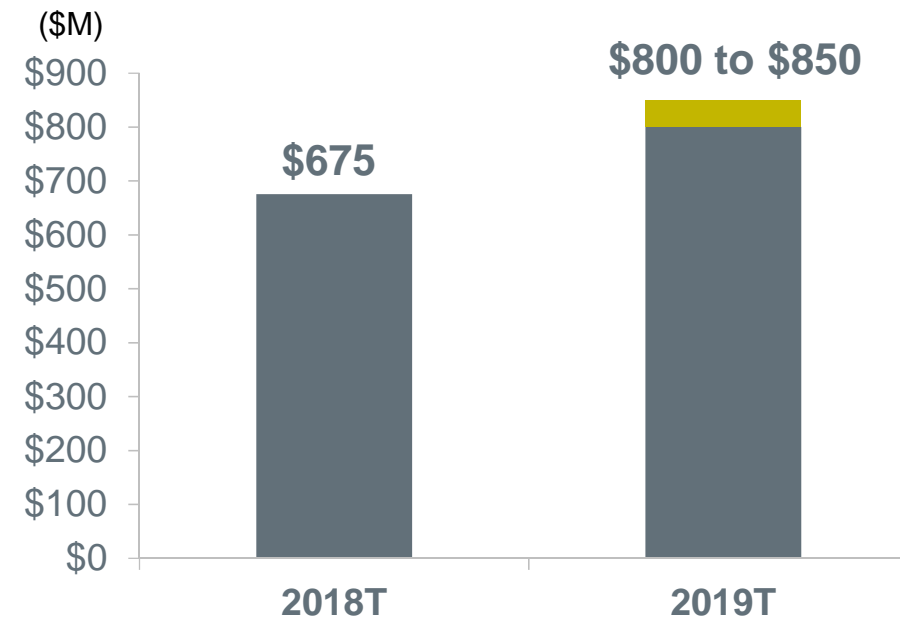
## 2019 key assumptions

- Based on 70% of the Alberta Commercial baseload generation sold forward at an average contracted price in the low-\$50/MWh range
- Excludes any impacts from \$500M of committed capital for growth

Adjusted funds from operations<sup>(1)</sup>



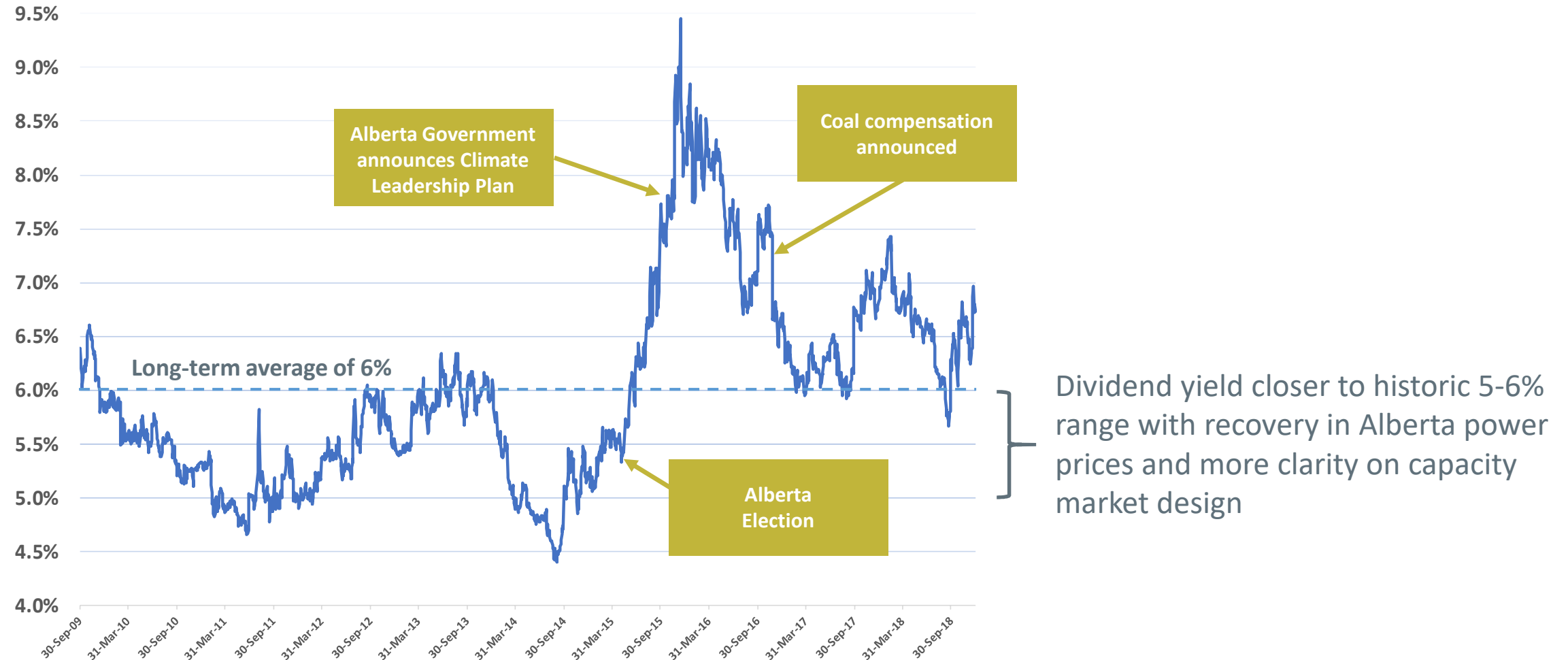
Adjusted EBITDA



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

# Sustainability and dividend growth

## Dividend yield



# Strategically evolving our portfolio

2014



2019



Generation  
technology<sup>(1)</sup>

**33%** Gas and  
renewables

**64%** Gas and  
renewables

Renewables and  
gas growth



Contracted  
capacity<sup>(1)</sup>

**58%** Contracted

**77%** Contracted

Greater visibility



North American  
footprint<sup>(1)</sup>

**76%** Alberta

**55%** Alberta

Geographic  
diversification



AFFO per share<sup>(2)</sup>

**\$2.51**

**\$4.74<sup>(3)</sup>**

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) AFFO per share is a non-GAAP financial measure

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) <sup>(1)</sup>	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 Apr/18 (up to 2 yrs)	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 Apr/18 (up to 1 yr)	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
<b>Genesee 2</b>	<b>400</b>	<b>30</b>	<b>2030</b>	Online		<b>Balancing Pool; Dec/20 expiry</b>
Sheerness 2	390	29	2030	Online	AUC applied CtG 2019-22	Balancing Pool; Dec/20 expiry
<b>Genesee 1</b>	<b>400</b>	<b>25</b>	<b>2030</b>	Online		<b>Balancing Pool; Dec/20 expiry</b>
<b>Genesee 3<sup>(2)</sup></b>	<b>466</b>	<b>14</b>	<b>2030</b>	Online		Merchant
<b>Keephills 3<sup>(2)</sup></b>	<b>463</b>	<b>8</b>	<b>2030</b>	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<sup>(1)</sup>



**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.

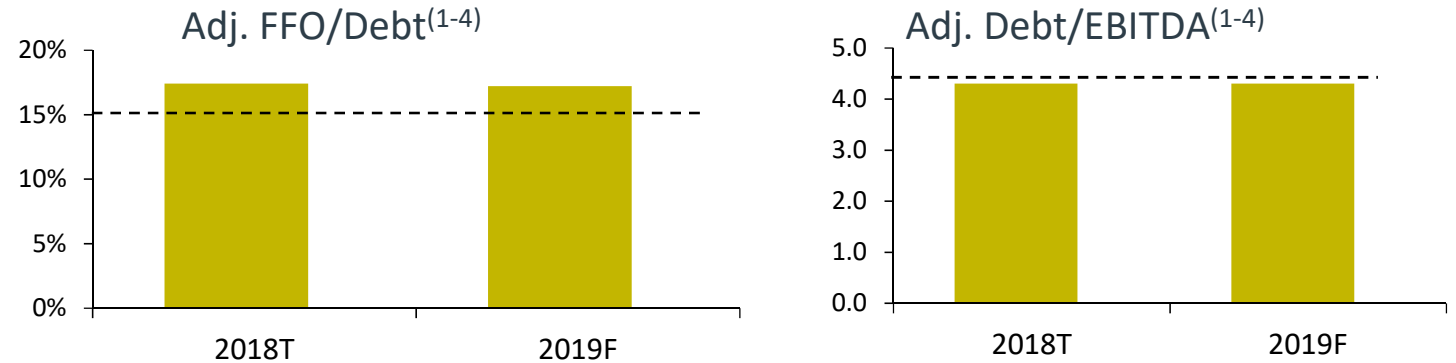
# Financial strength

## Strong balance sheet and commitment to investment grade credit ratings

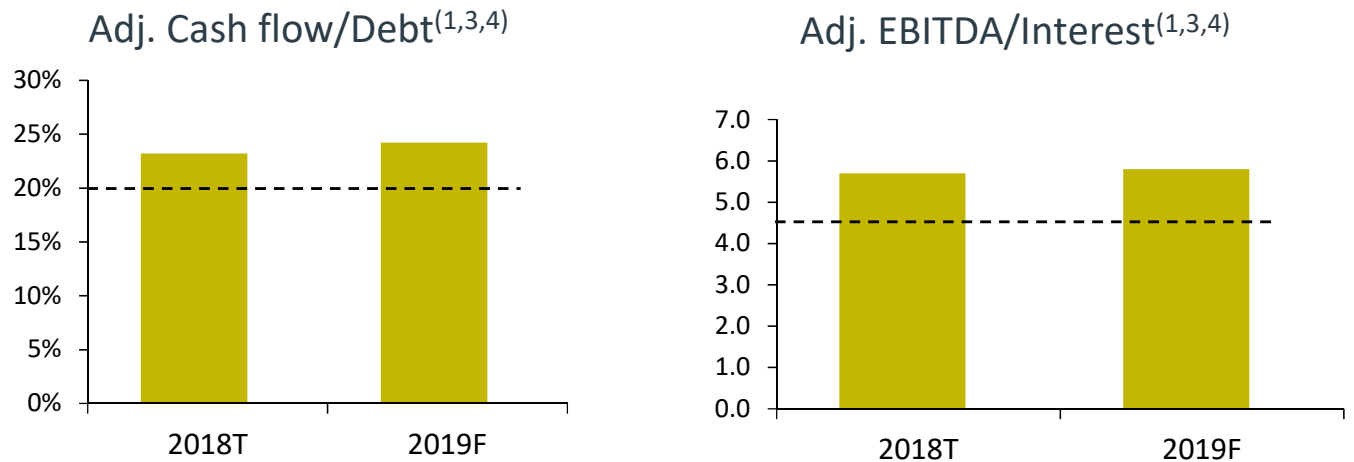
Agency	Ratings	Outlook
S&P	BBB- / P-3	Stable
DBRS	BBB(low) / Pfd-3 (low)	Stable

- 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.

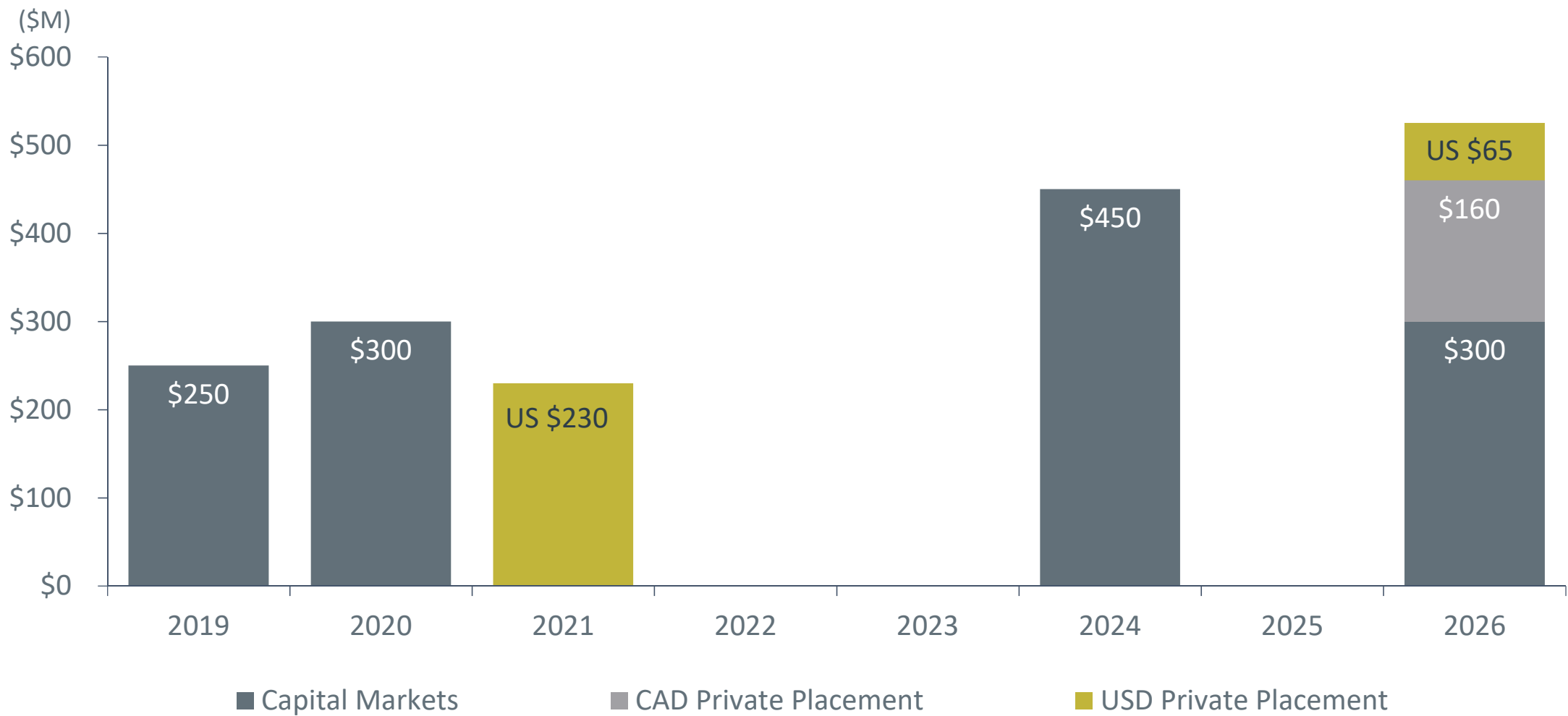
2) Based on S&P's weighted average ratings methodology.

3) 2018T means 2018 target and 2019F means 2019 forecast.

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

# Debt maturity schedule<sup>(1)</sup>

Well spread-out debt maturities supported by long asset lives



1) Debt amounts as of January 16, 2019 excludes non recourse debt, credit facility debt, and tax-equity financing.



# 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
<b>Capacity</b>	430 MW	430 MW	516 MW	516 MW	480 MW	243 MW	5 MW	150 MW	800 MW
<b>% owned / operated</b>	100 / 100	100 / 100	50 / 100	50 / 0	40 / 0	100 / 100	100 / 100	100 / 100	50% / 0%
<b>Location</b>	Warburg	Warburg	Warburg	Wabamun	Joffre	Edmonton	Edmonton	Halkirk	Calgary
<b>Fuel &amp; equipment</b>	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)
<b>Commercial Operations</b>	1994	1989	2005	2011	2000	Unit 1 in 2008; units 2&3 in 2009	2005	2012	2015
<b>PPA Expiry</b>	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
<b>Capacity</b>	275 MW	142 MW	5 MW	5 MW	105 MW	40 MW	400 MW	84 MW
<b>% owned / operated</b>	100 / 100	100 / 100	100 / 0	100 / 0	100 / 100	100 / 100	50 / 100	100 / 100
<b>Location</b>	Campbell River, BC	Tumbler Ridge, BC	BC	BC	Counties of Norfolk and Haldimand, Ontario	Goderich, Ontario	Township of King, Ontario	Windsor, Ontario
<b>Fuel &amp; equipment</b>	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)
<b>Commercial Operations</b>	2002	2012	2008	2008	2013	2006, 2001	2012	2009
<b>PPA Expiry</b>	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
<b>Capacity</b>	46 MW	88 MW	50 MW	15 MW	795 MW	178 MW	580 MW	99 MW
<b>% owned / operated</b>	100 / 100	100 / 100	100 / 100	100 (sale & leaseback) / 100	100 / 100	100 / 100	100 / 100	100 / 100
<b>Location</b>	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
<b>Fuel &amp; equipment</b>	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
<b>Commercial Operations</b>	1987	1987	2011	2015	2002	2017	2002	2018
<b>PPA Expiry</b>	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)
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, gains or losses on disposals and unrealized changes in fair value of commodity derivatives and emission credits (adjusted EBITDA), (ii) AFFO, (iii) AFFO 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.

Commencing with the Company's March 31, 2019 quarter-end, adjusted EBITDA will exclude unrealized changes in fair value of commodity derivatives and emission credits which were previously included in adjusted EBITDA. This change has been made to better align the Company's measure of adjusted EBITDA with its other non-GAAP measures, as both the AFFO and the normalized earnings per share measures exclude the impacts of unrealized changes in fair value of commodity derivatives and emission credits. This change will also result in period over period adjusted EBITDA being more comparable.



# Forward-looking information

Forward-looking information or statements in this presentation and in responses to questions 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 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 disclosures regarding: (i) 2019 plant availability, (ii) 2019 sustaining capital expenditures, (iii) securing of new development projects, (iv) future additional committed capital for growth, (v) expected completion dates and costs compared to budget for ongoing development projects, (vi) future AFFO, AFFO per share and expected increases in those metrics, (vii) 2019 adjusted EBITDA, and (viii) future dividend growth.

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: (i) electricity, other energy and carbon prices, (ii) anticipated facility performance, (iii) business prospects (including potential re-contracting opportunities) and opportunities including expected growth and capital projects, (iv) status of and impact of policy, legislation and regulations, and (v) effective tax rates.

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: (i) changes in electricity prices in markets in which the Company operates, (ii) changes in energy commodity market prices and use of derivatives, (iii) regulatory and political environments including changes to environmental, financial reporting, market structure and tax legislation, (iv) facility availability and performance including maintenance of equipment, (v) ability to fund current and future capital and working capital needs, (vi) developments including timing and costs of regulatory approvals and construction, (vii) changes in market prices and availability of fuel, and (viii) changes in general economic and competitive conditions. See Risks and Risk Management in the Company's Management's Discussion and Analysis for the year ended December 31, 2017, prepared as of February 15, 2018, 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.

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