



A Berkshire Hathaway Company

Forward-Looking Statements

This presentation contains statements that do not directly or exclusively relate to historical facts. These statements are "forward-looking statements" within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. Forward-looking statements can typically be identified by the use of forward-looking words, such as "will," "may," "could," "project," "believe," "anticipate," "expect," "estimate," "continue," "intend," "potential," "plan," "forecast" and similar terms. These statements are based upon the relevant Registrant's current intentions, assumptions, expectations and beliefs and are subject to risks, uncertainties and other important factors. Many of these factors are outside the control of each Registrant and could cause actual results to differ materially from those expressed or implied by such forward-looking statements. These factors include, among others:

- general economic, political and business conditions, as well as changes in, and compliance with, laws and regulations, including income tax reform, initiatives regarding deregulation and restructuring of the utility industry, and reliability and safety standards, affecting the respective Registrant's operations or related industries;
- changes in, and compliance with, environmental laws, regulations, decisions and policies that could, among other items, increase operating and capital costs, reduce facility output, accelerate facility retirements or delay facility construction or acquisition;
- the outcome of regulatory rate reviews and other proceedings conducted by regulatory agencies or other governmental and legal bodies and the respective Registrant's ability to recover costs through rates in a timely manner;
- changes in economic, industry, competition or weather conditions, as well as demographic trends, new technologies and various conservation, energy efficiency and private generation measures and programs, that could affect customer growth and usage, electricity and natural gas supply or the respective Registrant's ability to obtain long-term contracts with customers and suppliers;
- performance, availability and ongoing operation of the respective Registrant's facilities, including facilities not operated by the Registrants, due to the impacts of market conditions, outages and repairs, transmission constraints, weather, including wind, solar and hydroelectric conditions, and operating conditions;
- the effects of catastrophic and other unforeseen events, which may be caused by factors beyond the control of each respective Registrant or by a breakdown or failure of the Registrants' operating assets, including severe storms, floods, fires, earthquakes, explosions, landslides, an electromagnetic pulse, mining incidents, litigation, wars, terrorism, pandemics (including potentially in relation to the coronavirus), embargoes, and cyber security attacks, data security breaches, disruptions, or other malicious acts;
- a high degree of variance between actual and forecasted load or generation that could impact a Registrant's hedging strategy and the cost of balancing its generation resources with its retail load obligations;
- changes in prices, availability and demand for wholesale electricity, coal, natural gas, other fuel sources and fuel transportation that could have a significant impact on generating capacity and energy costs;
- the financial condition, creditworthiness and operational stability of the respective Registrant's significant customers and suppliers;
- changes in business strategy or development plans;
- availability, terms and deployment of capital, including reductions in demand for investment-grade commercial paper, debt securities and other sources of debt financing and volatility in interest rates;
- changes in the respective Registrant's credit ratings;
- risks relating to nuclear generation, including unique operational, closure and decommissioning risks;
- hydroelectric conditions and the cost, feasibility and eventual outcome of hydroelectric relicensing proceedings;
- the impact of certain contracts used to mitigate or manage volume, price and interest rate risk, including increased collateral requirements, and changes in commodity prices, interest rates and other conditions that affect the fair value of certain contracts;

Forward-Looking Statements

- the impact of inflation on costs and the ability of the respective Registrants to recover such costs in regulated rates;
- fluctuations in foreign currency exchange rates, primarily the British pound and the Canadian dollar;
- increases in employee healthcare costs;
- the impact of investment performance and changes in interest rates, legislation, healthcare cost trends, mortality and morbidity on pension and other postretirement benefits expense and funding requirements;
- changes in the residential real estate brokerage, mortgage and franchising industries and regulations that could affect brokerage, mortgage and franchising transactions;
- the ability to successfully integrate future acquired operations into a Registrant's business;
- unanticipated construction delays, changes in costs, receipt of required permits and authorizations, ability to fund capital projects and other factors that could affect future facilities and infrastructure additions;
- the availability and price of natural gas in applicable geographic regions and demand for natural gas supply;
- the impact of new accounting guidance or changes in current accounting estimates and assumptions on the financial results of the respective Registrants; and
- other business or investment considerations that may be disclosed from time to time in the Registrants' filings with the SEC or in other publicly disseminated written documents.

The information provided in these slides (including the appendix hereto) have been prepared with respect to our fiscal year ended 2019, and to the extent there are forward looking statements contained herein, those statements are derived from our plans and strategies adopted prior to the current global coronavirus pandemic and include, among other things, capital expenditure needs which needs are reviewed regularly by management and may change significantly as a result of these reviews. Our businesses could be adversely affected by the recent outbreak of coronavirus in and across the U.S. and the markets in which we operate if our commercial and industrial utility customers experience decreases in demand for their products and services and thereby reduce their consumption of electricity or natural gas that we supply or if we experience material payment defaults by our customers. For example, if the tourism industry in Nevada experiences a significant and extended decrease as a result of such outbreak, or fears of such outbreak, demand for electricity which we sell through our subsidiaries, Nevada Power and Sierra Pacific, could decrease. Similarly, our residential real estate brokerage business, operated through HomeServices, could experience a decline (which could be significant) in residential property transactions if potential customers elect to defer purchases in reaction to any substantial outbreak, or fear of such outbreak, of the coronavirus or other pathogen, in some or all of the real estate markets in which we operate. Such declines in demand could significantly reduce our affected subsidiaries' revenue, thereby reducing the availability of distributions to us, which could adversely affect our consolidated financial results and our ability to service our debt. Further, the recent outbreak of the coronavirus, or another pathogen, could disrupt supply chains (including supply chains for energy generation, steel or transmission wire) relating to the markets we serve, which could adversely impact our ability to generate or supply power. In addition, such disruptions to the supply chain could delay certain of our construction and other capital expenditure projects, including construction and repowering of our wind generation projects which could delay our completion of such projects past the in-service dates required by the U.S. tax code in order to qualify for the maximum federal production tax credits for investments in such renewable power generation facilities.

The Company has significant future capital requirements. Capital expenditure needs are reviewed regularly by Management and may change significantly as a result of these reviews, which may consider, among other factors, changes in environmental and other rules and regulations; impacts to customers' rates; outcomes of regulatory proceedings; changes in income tax laws; general business conditions; load projections; system reliability standards; the cost and efficiency of construction labor; equipment and materials; commodity prices; and the cost and availability of capital. Expenditures for certain assets may ultimately include acquisitions of existing assets.

Forward-Looking Statements

Further details of the potential risks and uncertainties affecting the Registrants are described in the Registrants' filings with the SEC, including Item 1A and other discussions contained in their Form 10-K for the year ended December 31, 2019. Each Registrant undertakes no obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise. The foregoing factors should not be construed as exclusive.

This presentation includes certain non-Generally Accepted Accounting Principles (GAAP) financial measures as defined by the SEC's Regulation G. Refer to the BHE Appendix in this presentation for a reconciliation of those non-GAAP financial measures to the most directly comparable GAAP measures.



Calvin Haack

Senior Vice President and Chief Financial Officer
Berkshire Hathaway Energy

COVID-19 Response Update

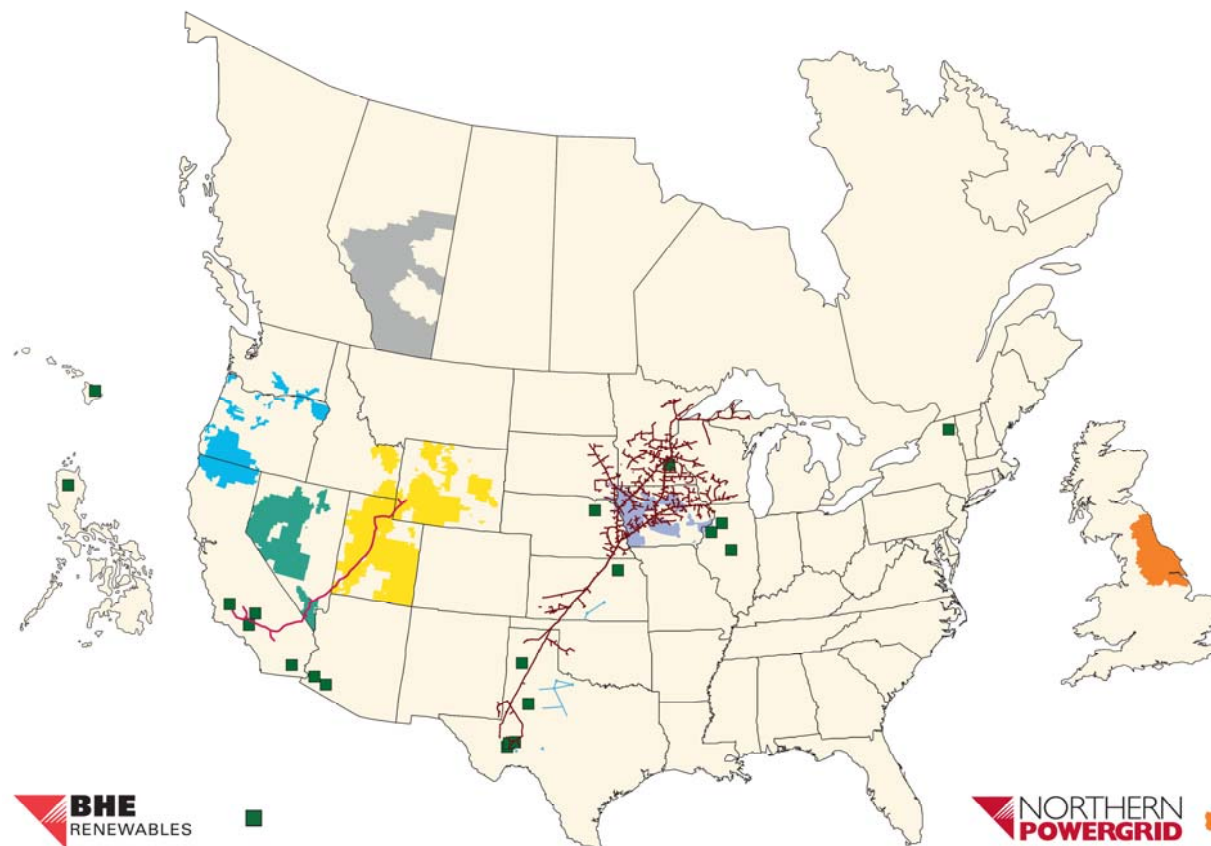
- Planning
 - We have robust business continuity and contagious disease/pandemic response plans
 - All of the business incident management teams have been activated
 - Regular, frequent and structured communication with executive management is occurring to ensure decisive and responsive leadership
 - We are engaged in promoting information exchange about best practices and response actions across our industry peers, and through engagement with national, state, local and provincial governments
- Operations
 - No material disruption in the delivery of energy services has been experienced to date
 - We have not experienced any significant supply disruptions to date that would have any material impact on our electric or gas operations or on our capital plans but we continue to closely monitor this situation
 - While it is early for us to know, other than the casino closures in Nevada, we have not experienced any material change in our loads
 - We continue to be in a position to supply essential energy and other services to our customers
 - We are following the U.S. Department of Homeland Security Cybersecurity and Infrastructure Security Agency's guidance to support critical infrastructure employee continuity of work while local governments begin to declare shelter-in-place orders
 - We are maintaining strong cyber and physical security controls, including monitoring emerging threats
- Health and Safety
 - The safety and well-being of our employees and their families remain our top priority
 - We are continuing to support our employees through regular communications and flexible working and pay continuity arrangements tailored to the local business and geographic needs
 - Enhanced hygiene and sanitation protocols have been deployed for use by our businesses
 - We continue to follow recommendations issued by the World Health Organization and Centers for Disease Control and Prevention with regards to COVID-19 with particular emphasis on social distancing, travel restrictions and other applicable health and safety protocols

COVID-19 Response Update

- Substantial liquidity is being maintained across our platforms
 - In March 2020, Berkshire Hathaway Energy issued \$3.25 billion of senior notes to support our liquidity. The proceeds were used to repay short-term borrowings and support ongoing cash needs
 - Following the debt offerings, as of March 27, 2020, Berkshire Hathaway Energy and subsidiaries had an aggregate of approximately \$8.6 billion of undrawn short-term credit facilities and cash and cash equivalents on hand

(\$ in millions)	BHE	PacifiCorp	MidAmerican Funding	NV Energy	Northern Powergrid	AltaLink	Other	Total
Cash and cash equivalents	\$ 1,492	\$ 2	\$ 47	\$ 136	\$ 18	\$ 80	\$ 184	\$ 1,959
Credit facilities	3,500	1,200	1,309	650	183	622	1,845	9,309
Less:								
Short-term debt	(415)	(41)	(50)	-	(5)	(276)	(1,303)	(2,090)
Tax-exempt bond support and letters of credit	-	(256)	(370)	-	-	(2)	-	(628)
Net credit facilities	3,085	903	889	650	178	344	542	6,591
Total net liquidity	\$ 4,577	\$ 905	\$ 936	\$ 786	\$ 196	\$ 424	\$ 726	\$ 8,550
Maturity Dates	2022	2022	2020, 2022	2022	2022	2024	2020, 2021, 2022	

Energy Assets



Assets	\$100 billion
Revenues	\$19.8 billion
Customers⁽¹⁾	9.0 million
Employees	23,000
Transmission Line Miles	34,000
Natural Gas Pipeline Miles	16,300
Power Capacity	33,611 MW ⁽²⁾
Renewables	41%
Natural Gas	32%
Coal	26%
Nuclear and Other	1%

PACIFICORP

PACIFIC POWER

ROCKY MOUNTAIN POWER

NV Energy

MIDAMERICAN ENERGY COMPANY

BHE PIPELINE GROUP

Northern Natural Gas

Kern River GAS TRANSMISSION COMPANY

NORTHERN POWERGRID

ALTALINK

BHE U.S. TRANSMISSION

(1) Includes both electric and natural gas customers and end-users worldwide. Additionally, AltaLink serves approximately 85% of Alberta, Canada's population

(2) Net MW owned in operation and under construction as of December 31, 2019

Berkshire Hathaway Energy

Vision

To be the **best** energy company in serving our customers, while delivering sustainable energy solutions

Culture

Personal responsibility to our customers

Strategy

Reinvest in our businesses

- Continue to invest in our employees and operations, maintenance and capital programs for property, plant and equipment
- Position our regulated businesses to meet changing customer expectations and retain customers (reduce bypass risk) by providing excellent service and competitive rates
- Reduce the carbon footprint of our operations by participating in energy policy development, resulting in the transformation of our businesses and assets
- Advance grid resilience, cybersecurity and physical security programs

Invest in internal growth

- Pursue the development of a value-enhancing energy grid and gas pipeline infrastructure
- Create customer solutions through innovative rate design and redesign
- Grow our portfolio of renewable energy
- Develop strong grid systems, including cybersecurity and physical resilience programs

Acquire companies

- Additive to business model

Competitive Advantage

Berkshire Hathaway ownership

Competitive Advantage

- **Diversified portfolio of regulated assets**
 - Weather, customer, regulatory, generation, economic and catastrophic risk diversification
- **Berkshire Hathaway ownership**
 - Access to capital from Berkshire Hathaway allows us to take advantage of market opportunities
 - Berkshire Hathaway is a long-term owner of assets which promotes stability and helps make Berkshire Hathaway Energy the buyer of choice in many circumstances
 - Tax appetite of Berkshire Hathaway has allowed us to receive significant cash tax benefits from our parent of \$942 million and \$884 million in 2019 and 2018, respectively
- **No dividend requirement**
 - Cash flow is retained in the business and used to help fund growth and strengthen our balance sheet

Diversity in Our Portfolio

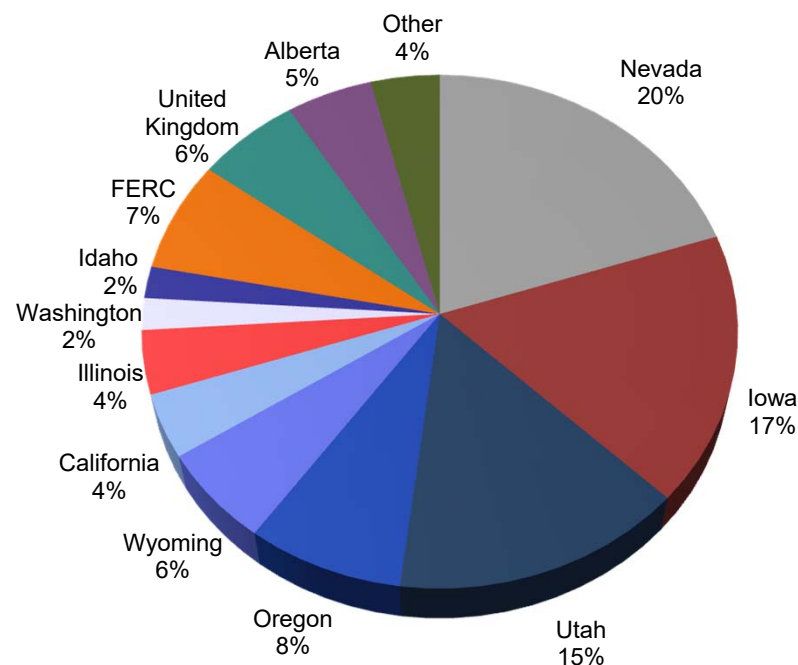
Berkshire Hathaway Energy's regulated energy businesses serve customers and end-users across 18 U.S. states in the West and Midwest, and in Great Britain and Canada

DISTRIBUTION	Our integrated utilities serve approximately 5.1 million customers; Northern Powergrid has 3.9 million end-users, making it the third-largest distribution company in Great Britain
TRANSMISSION	We own significant transmission infrastructure in 15 states and the province of Alberta; with our assets at PacifiCorp, NV Energy and AltaLink, we are the largest transmission owner in the Western Interconnection
PIPELINES	BHE Pipeline Group transported approximately 8% of the total natural gas consumed in the U.S. during 2019
GENERATION	We own 33,611 MW of power capacity in operation and under construction, with resource diversity and a growing renewable portfolio
RENEWABLES	As of December 31, 2019, we had invested \$29.3 billion in wind, solar, geothermal and biomass generation, and have commitments to spend an additional \$5.5 billion on wind generation by 2022

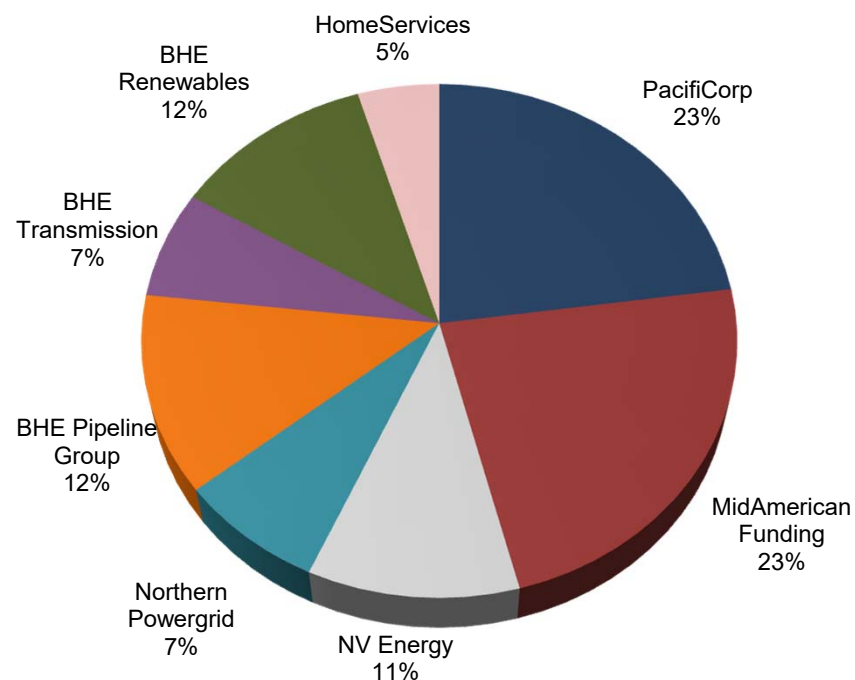
Revenue and Net Income Diversification

- Diversified revenue sources reduce regulatory concentrations
- In 2019, approximately 83% of adjusted net income was from investment-grade regulated subsidiaries. A significant portion of the remaining non-regulated adjusted net income is from contracted generation assets at BHE Renewables

2019 Energy Revenue⁽¹⁾
\$15 Billion



2019 Adjusted Net Income⁽²⁾
\$3.2 Billion



⁽¹⁾ Excludes HomeServices and equity income, which add further diversification

⁽²⁾ Percentages exclude Corporate/Other

Our Balanced Long-Term Approach Leads to a Culture of Sustainability

Berkshire Hathaway Energy recognizes the importance of reducing our environmental footprint by minimizing the impact of our operations on the environment. From reducing our air emissions and conserving water to protecting sensitive plant and animal species and their habitats, our Environmental RESPECT policy details our commitment in the areas of Responsibility, Efficiency, Stewardship, Performance, Evaluation, Communication and Training. Our core principles – customer service, employee commitment, environmental respect, regulatory integrity, operational excellence and financial strength – guide our decisions as we work to provide balanced outcomes for all stakeholders

- Sustainability is naturally a part of this balanced approach
- The approach addresses long-term issues, risks and opportunities aligned with our vision and core principles
- Aligns the objectives of providing safe, reliable and affordable clean energy
- Committed and supportive leadership and owners
- Committed and engaged employees

Environmental

- Renewables investments
- Environmental Respect Index
- Species protection
- Carbon reduction efforts
- Methane emissions reduction
- Green bonds

Social

- BHE CARES – global giving and volunteering
- Customer first
- Veterans Engagement and Retention Network
- Diversity and Inclusion Policy

Governance

- Our board of directors own or represent entities that own 100% of Berkshire Hathaway Energy's common stock
- Berkshire Hathaway Energy Code of Business Conduct
- Berkshire Hathaway Inc. Code of Business Conduct and Ethics

Advancing a Sustainable Energy Future

- Berkshire Hathaway Energy is a leader in renewable energy. As of December 31, 2019, approximately 42% of our businesses' owned generation capacity (operating and under construction) was from non-carbon resources
 - Through December 31, 2019, Berkshire Hathaway Energy had spent \$29.3 billion on renewable energy, and made commitments to spend an additional \$5.5 billion on wind generation by 2022
 - The American Wind Energy Association's Year-Ending 2018 Annual Market Report listed Berkshire Hathaway Energy as the largest investor-owned utility of owned regulated operating wind-power capacity
 - As we advance sustainable energy solutions, we are helping our customers achieve their sustainability goals and reduce environmental impact through increasing the amount of renewable energy we generate, empowering customers to conserve and manage their energy use, and partnering with them on unique projects
 - One example of these efforts is an innovative partnership at a newly constructed all-electric, net-zero residential multifamily community that will be partially powered by 5 MW of on-site solar panels with battery storage located in each of the 600 apartments, totaling 12.6 MWh of energy storage that is controlled by Rocky Mountain Power for the benefit of the community and the broader grid as a real-time dispatchable distributed energy solution
 - MidAmerican Energy is the largest owner in the U.S. of rate-regulated wind capacity, with 6,803 MW in operation or under construction. In 2019, MidAmerican Energy generated wind energy equivalent to approximately 61% of its Iowa customers' annual retail electric usage. Once Wind XII and other wind development projects are completed (expected late 2020) MidAmerican Energy is on pace to meet, by 2021, 100% of its Iowa and South Dakota customers' energy use on an annual basis with renewable, zero-carbon energy, becoming the first major utility in the U.S. to do so for its customers

Advancing a Sustainable Energy Future

- PacifiCorp's Energy Vision 2020 program will repower 1,041 MW of company-owned wind facilities, acquire 950 MW of new wind projects, add 200 MW of wind procured through a power purchase agreement and build a new 140-mile, 500-kV transmission line. The projects are on schedule to be placed in service by year-end 2020 to deliver benefits to customers and improve transmission transfer capacity and reliability. In October 2019, PacifiCorp filed its Integrated Resource Plan, which includes the addition of more than 4,600 MW of new wind generation, 6,300 MW of new solar generation, 2,800 MW of battery storage, and nearly 4,500 MW of coal plant retirements through 2038
- As part of its Integrated Resource Plan filed in 2018 and as amended in 2019, NV Energy announced plans to enter into power purchase agreements to procure generation from nearly 2,200 MW of solar generation and almost 700 MW of battery storage by 2024. Beyond 2024, the resource plan includes nearly 2,000 MW of additional solar generation and 100 MW of geothermal generation through 2038 which is consistent with Nevada's energy policy to increase the amount of renewable energy. Nevada Power retired its last coal units in November 2019
- Owned coal-fueled capacity has declined as a percentage of Berkshire Hathaway Energy's power capacity portfolio from 58% in 2006 to 26% as of December 31, 2019. Since 2013, Berkshire Hathaway Energy has retired or has announced plans to retire approximately 7,800 MW (74% reduction) of coal generation capacity by 2042
- Berkshire Hathaway Energy's natural gas transmission pipelines' operational practices and methane leak detection programs are designed to minimize the release of methane emissions. These leading practices resulted in the gas transmission pipelines' combined leak rates, measured as a percentage of throughput, of 0.040% in 2019, which is significantly less than the industry average and goal of the ONE Future Initiative of 1%
- Additional information regarding our sustainability and environmental outlook can be found at <https://www.brkenenergy.com/environment/>

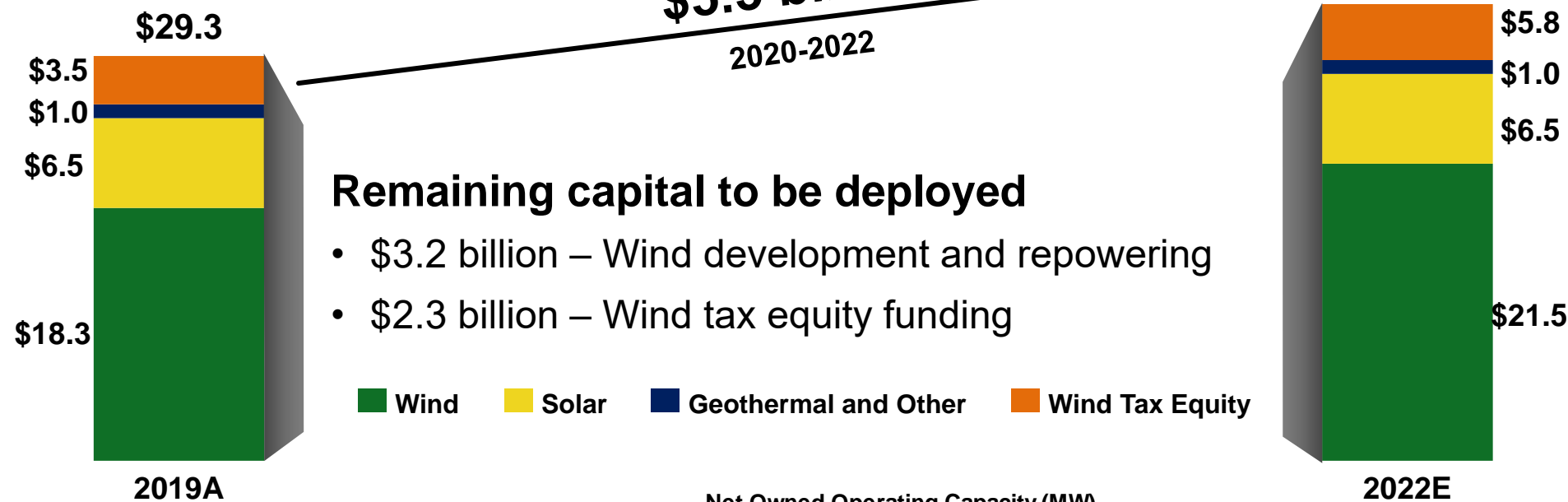
Support a Cleaner Energy Future

\$34.8 Billion Renewable Commitment

(\$ billions)

\$5.5 billion

2020-2022



Net Owned Operating Capacity (MW)

	December 2019			December 2022		
	Wind	Solar	Other	Wind	Solar	Other
PacifiCorp	1,041	-	32	2,231	-	32
MidAmerican Energy	6,177	-	-	6,995	10	-
NV Energy	-	15	5	-	15	5
BHE Renewables	1,665	1,536	345	1,665	1,536	345
	8,883	1,551	382	10,891	1,561	382

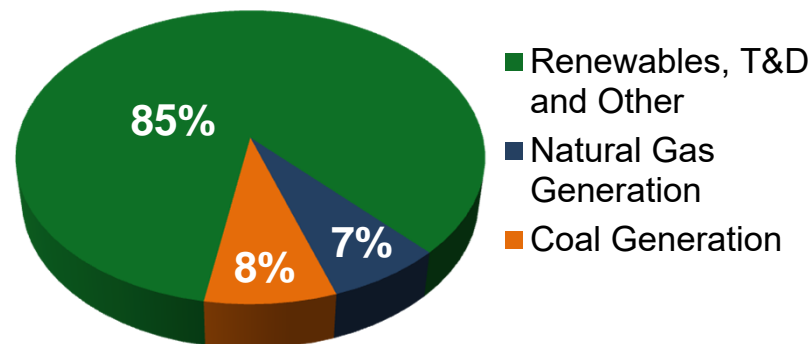
- In addition to owned renewable capacity and investments detailed above, Berkshire Hathaway Energy's regulated utilities have renewable energy power purchase agreements for more than 5,200 MW. NV Energy plans to purchase approximately 2,300 MW of additional solar energy and PacifiCorp plans to purchase approximately 200 MW of additional wind/solar energy

Decarbonization of the Balance Sheet

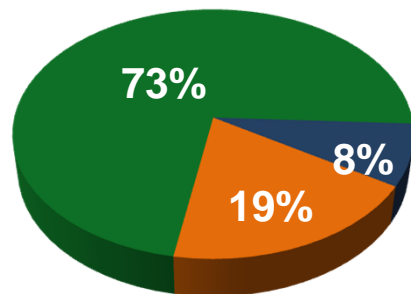
- Berkshire Hathaway Energy is growing its renewable energy portfolio and continues to de-risk its balance sheet as it relates to carbon-based generation assets. As of December 31, 2019, only 8% of our overall net investment in property, plant and equipment was invested in coal generation assets, while 7% was invested in natural gas generation assets

Net PP&E as of December 31, 2019

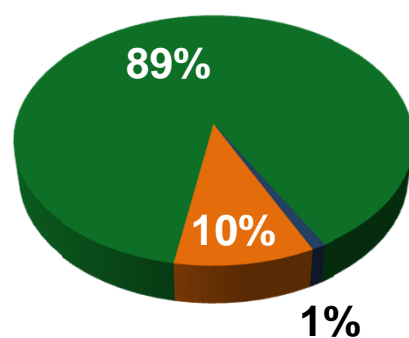
Berkshire Hathaway Energy



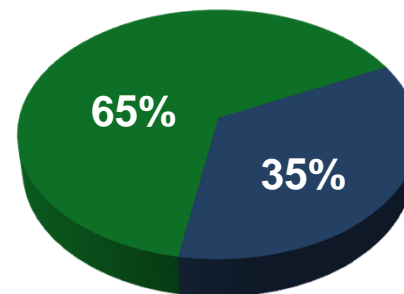
PacifiCorp



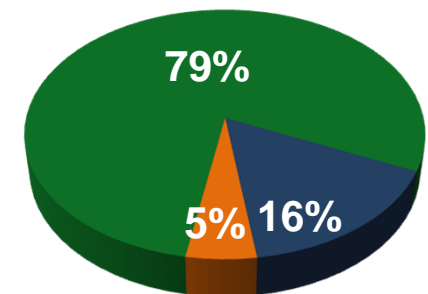
MidAmerican Energy



Nevada Power

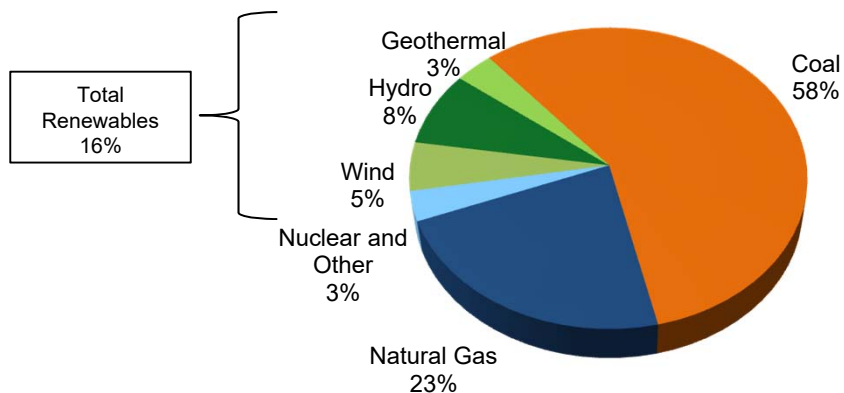


Sierra Pacific

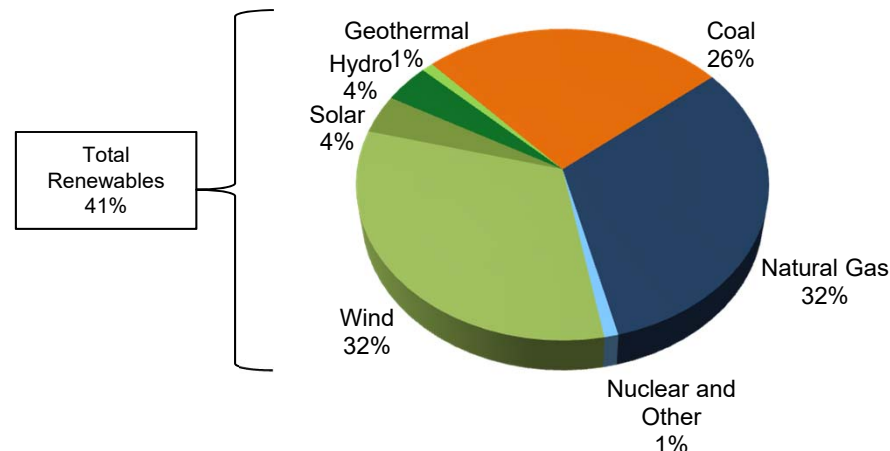


Generation Diversification

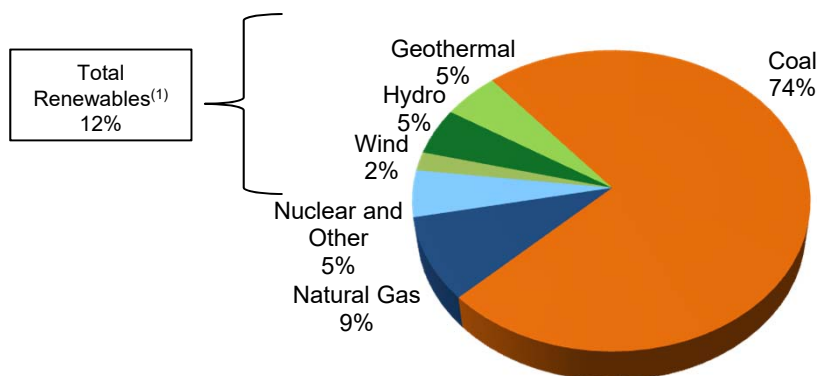
2006 BHE Power Capacity – 16,386 MW



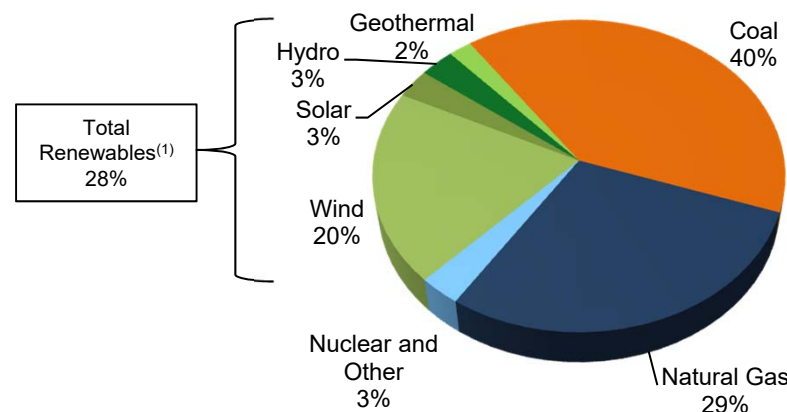
2019 BHE Power Capacity – 33,611 MW



2006 BHE Power Generation – 83 TWh



2019 BHE Power Generation – 122 TWh



- In 2006, Berkshire Hathaway Energy acquired PacifiCorp. Since this acquisition, we have significantly changed our generation mix by growing our renewable portfolio of assets

(1) All or some of the renewable energy attributes associated with generation from these generating facilities may be: (a) used in future years to comply with RPS or other regulatory requirements, or (b) sold to third parties in the form of RECs or other environmental commodities

Berkshire Hathaway Ownership is Unique to the Utility Industry

- Our support is explicit from our Aa2/AA rated parent
 - We are not like any other utility holding company. Our balance sheet and credit strength are supported by a strong owner with over \$120 billion of cash liquidity as of December 31, 2019⁽¹⁾
 - We do not pay dividends, which allows us to continue to grow the business and maintain credit quality
 - We retain more dollars of earnings than any other U.S. electric utility

As of December 31, 2019							
(\$ in millions)	Net Income to Common ⁽²⁾	Adjusted Earnings ⁽²⁾	Common Dividend ⁽²⁾	Adjusted Retained Earnings per day	Common Dividend as % of Adjusted Earnings	Market Cap ⁽³⁾	
Berkshire Hathaway Energy:							
2019 Actual	\$ 2,950	\$ 3,177	\$ -	\$8.7	0%	Privately Held	
Peer Group Comparison:							
NextEra Energy	\$ 3,769	\$ 4,062	\$ 2,408	\$4.5	59%	\$ 118,416	
Dominion Energy	1,358	3,447	2,983	1.3	87%	69,403	
Southern Company	4,739	3,250	2,570	1.9	79%	67,092	
Duke Energy	3,707	3,706	2,668	2.8	72%	66,857	
American Electric Power	1,921	2,095	1,350	2.0	64%	46,704	
Exelon Corporation	2,936	3,139	1,408	4.7	45%	44,359	
Sempra Energy	2,055	1,911	993	2.5	52%	44,189	
Xcel Energy Inc.	1,372	1,372	791	1.6	58%	33,303	
Consolidated Edison, Inc.	1,343	1,438	924	1.4	64%	30,093	
Public Service Enterprise	1,693	1,666	950	2.0	57%	29,761	
Peer Median	1,988	2,617	1,379	2.0	62%		

⁽¹⁾ Berkshire Hathaway does not guarantee any debt, borrowings or lines of credit of Berkshire Hathaway Energy

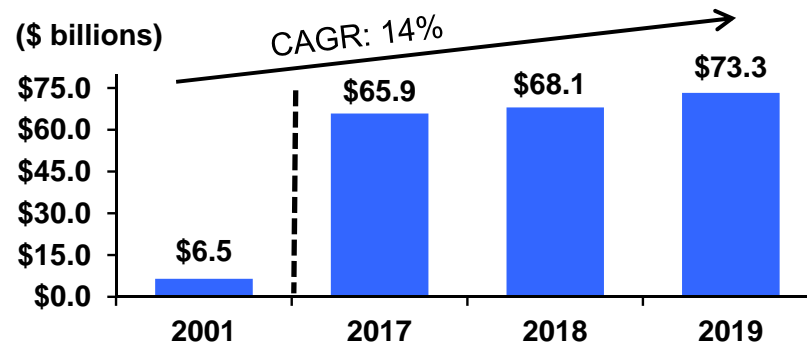
⁽²⁾ As reported by company public filings

⁽³⁾ Calculated using reported shares outstanding on each respective balance sheet for the period ending December 31, 2019, per S&P Capital IQ

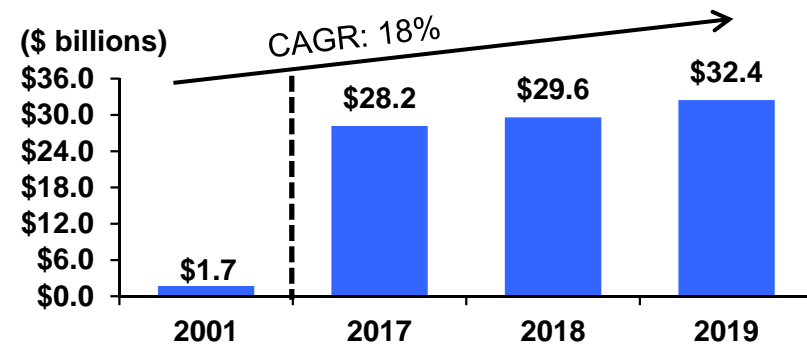
Berkshire Hathaway Energy Financial Summary

- Since being acquired by Berkshire Hathaway in March 2000, Berkshire Hathaway Energy has realized significant growth in its assets, shareholders' equity, net income and cash flows

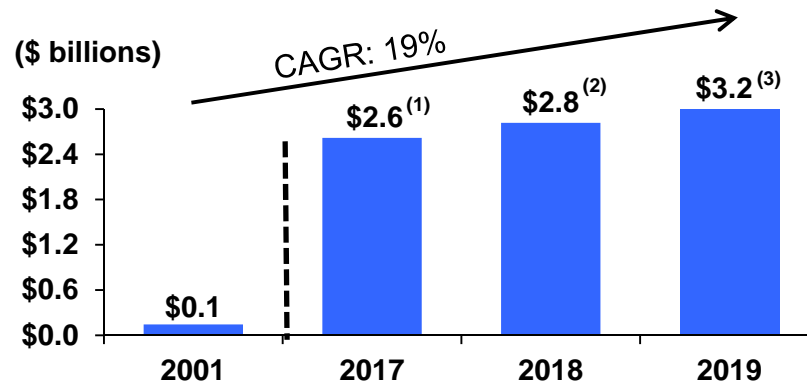
Property, Plant and Equipment (Net)



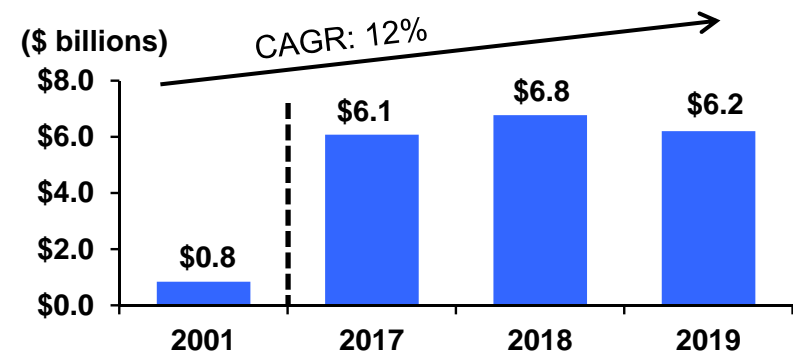
BHE Shareholders' Equity



Net Income Attributable to BHE



Cash Flows From Operations

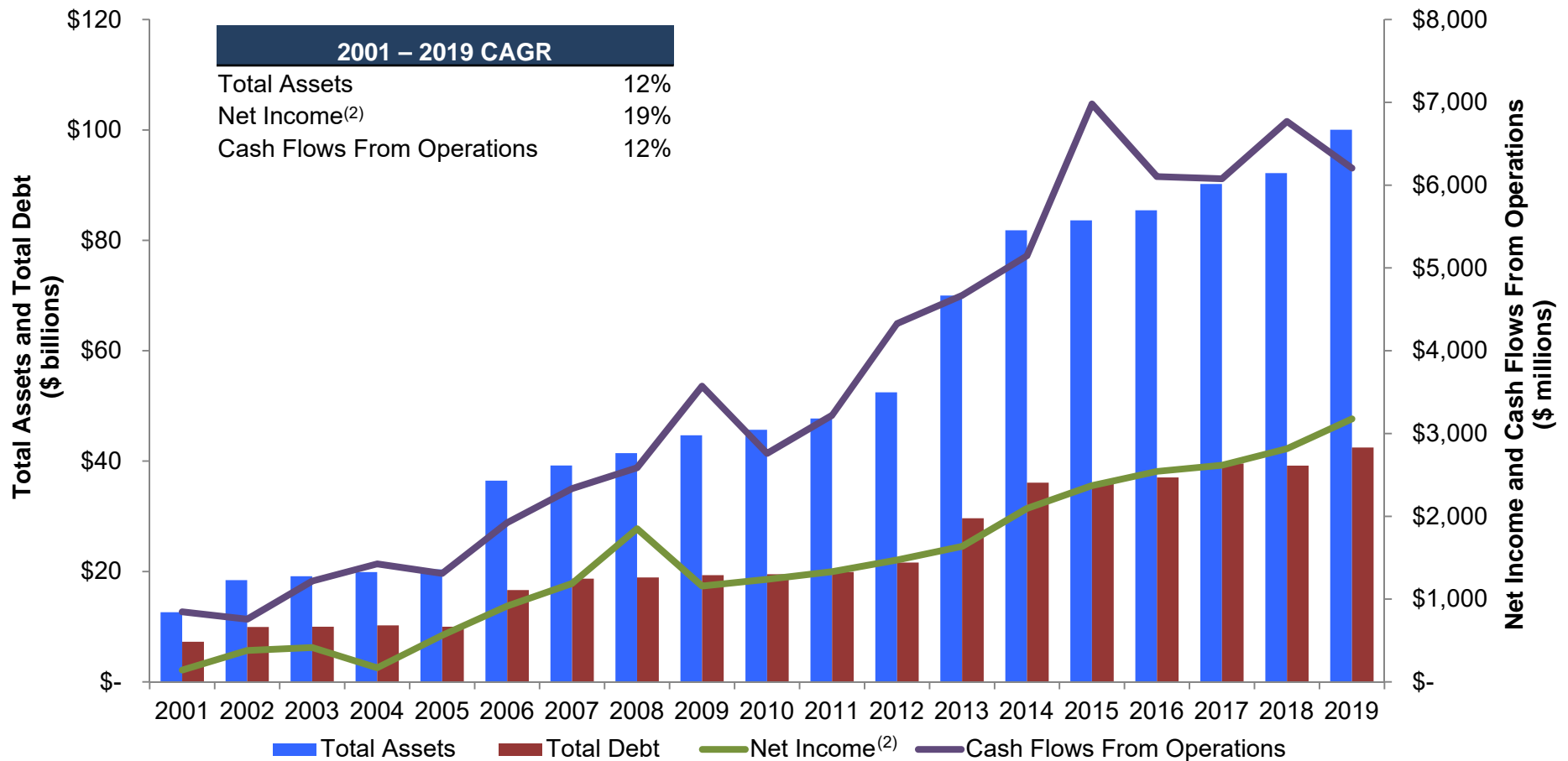


- (1) Adjusted net income in 2017 of \$2.6 billion excludes a \$516 million benefit as a result of 2017 Tax Reform, and a charge of \$263 million from tender offers for certain long-term debt completed in December 2017. Including the impact of these adjustments, 2017 reported net income was \$2.9 billion
- (2) Adjusted net income in 2018 of \$2.8 billion excludes a \$134 million benefit as a result of 2017 Tax Reform, and an after-tax unrealized loss of \$383 million related to our investment in BYD. Including the impact of these adjustments, 2018 reported net income was \$2.6 billion
- (3) Adjusted net income in 2019 of \$3.2 billion excludes an after-tax unrealized loss of \$227 million related to our investment in BYD. Including the impact of this adjustment, 2019 reported net income was \$3.0 billion

Berkshire Hathaway Energy

Growing the Business

- We have significantly grown our assets while de-risking the business since being acquired by Berkshire Hathaway in 2000, reducing total debt⁽¹⁾ / total assets from 58% to 42% and improving our credit ratings



⁽¹⁾ Total Debt excludes Junior Subordinated Debentures and Berkshire Hathaway Energy trust preferred securities. As of December 31, 2019, \$100 million of junior subordinated debentures remained outstanding

⁽²⁾ Starting in 2017, net income reflects adjusted net income

2019 Net Income

(\$ millions)

Net Income Attributable to BHE	Years Ended December 31		
	2019	2018	2017
PacifiCorp	\$ 773	\$ 739	\$ 763
MidAmerican Funding	781	669	601
NV Energy	365	317	365
Northern Powergrid	256	239	251
BHE Pipeline Group	422	387	270
BHE Transmission	229	210	224
BHE Renewables	431	329	236
HomeServices	160	145	118
BHE and Other	(240)	(218)	(211)
Adjusted Net income attributable to BHE ⁽¹⁾	3,177	2,817	2,617
Unrealized Loss on BYD, net of Income Taxes	(227)	(383)	-
Debt Tender Offer Premium	-	-	(263)
2017 Tax Reform	-	134	516
Net income attributable to BHE	\$ 2,950	\$ 2,568	\$ 2,870

(1) See appendix for a detailed reconciliation of net income adjustments

U.S. Regulatory Overview

Adjustment Mechanisms

	Fuel Recovery Mechanism	Capital Recovery Mechanism	Renewable Rider (REC/PTC)	Transmission Rider	Energy Efficiency Rider	Decoupling	Forward Test Year
PacifiCorp							
Utah	✓	✓	✓		✓		✓ ⁽¹⁾
Wyoming	✓		✓		✓		✓ ⁽¹⁾
Idaho	✓		✓		✓		
Oregon	✓	✓	✓		✓		✓
Washington	✓	✓	✓		✓	✓	
California	✓	✓	✓		✓		✓
MidAmerican Energy							
Iowa – Electric	✓		✓	✓	✓		✓
Illinois – Electric	✓		✓	✓	✓		✓
South Dakota – Electric	✓		✓	✓	✓		
Iowa – Gas	✓	✓			✓		✓
Illinois – Gas	✓				✓		✓
South Dakota - Gas	✓				✓		
NV Energy							
Nevada Power	✓		✓		✓		
Sierra Pacific Power – Electric	✓		✓		✓		
Sierra Pacific Power – Gas	✓		✓				

(1) PacifiCorp has relied on both historical test periods with known and measurable adjustments, as well as forecast test periods

Return on Equity

Entity	Net Income Divided by Average Equity ⁽¹⁾		Allowed ROE
	2019	2018	
PacifiCorp	9.5%	9.7%	9.7%
MidAmerican Energy	11.6%	11.2%	10.5% ⁽²⁾
Nevada Power	9.1%	8.1%	9.4% ⁽³⁾
Sierra Pacific	8.0%	7.5%	9.5% ⁽⁴⁾
Northern Natural Gas	14.2%	13.4%	12.0%
Kern River	16.2%	17.7%	11.55%

(1) Based on 13-point average equity, including as reported net income and equity

(2) Effective January 1, 2018, revenue sharing will be triggered each year by MidAmerican Energy's actual returns above a threshold calculated annually. Effective January 1, 2019, the threshold is capped at 11% with customer sharing set at 90%

(3) Nevada Power is permitted to earn up to 9.7% before 50% revenue sharing commences

(4) Effective January 1, 2020, Sierra Pacific is permitted to earn up to 9.7% before 50% revenue sharing commences

Low Cost Competitive Rates

Company	Weighted Average Retail Rate (\$/kWh)	
U.S. National Average⁽¹⁾	\$0.1081	
Pacific Power	\$0.0941	13% lower than the U.S. National Average
Rocky Mountain Power	\$0.0774	28% lower than the U.S. National Average
MidAmerican Energy	\$0.0733	32% lower than the U.S. National Average
Nevada Power	\$0.1019	6% lower than the U.S. National Average
Sierra Pacific	\$0.0818	24% lower than the U.S. National Average
BHE Pipeline Group	Mastio No. 1 for the 15 th consecutive year	

Highest Average Rates (\$/kWh) by State⁽¹⁾: Hawaii – \$0.2974;
 Massachusetts – \$0.2098; Connecticut – \$0.2029; Rhode Island – \$0.1940;
 New Hampshire – \$0.1761

⁽¹⁾ Source: Edison Electric Institute (Summer 2019)

Credit Ratios Support Our Credit Ratings

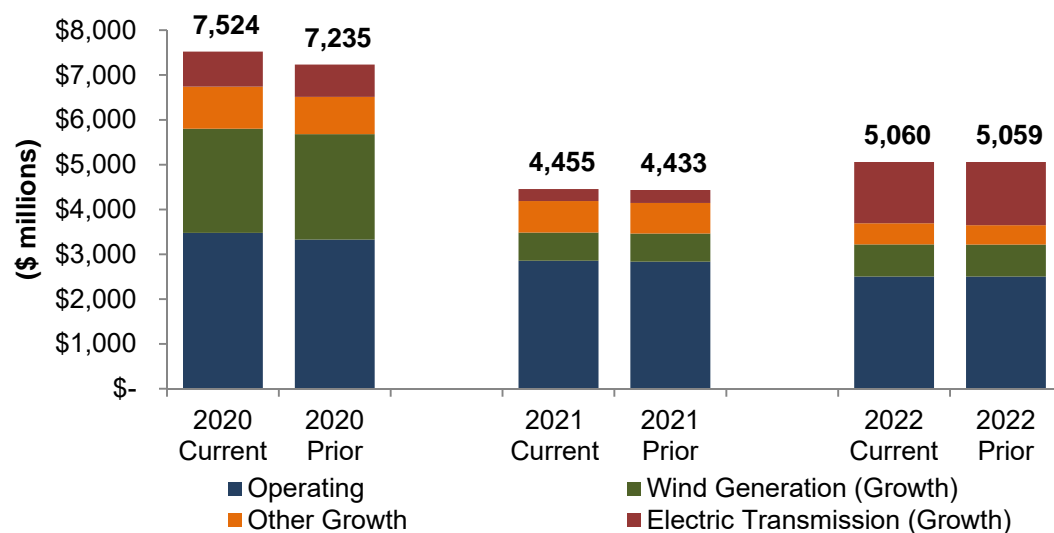
		Unadjusted Credit Metrics										
		FFO Interest Coverage				FFO / Debt				Debt / Total Capitalization		
	Credit Ratings ⁽¹⁾	Average	2019	2018	2017	Average	2019	2018	2017	2019	2018	2017
Berkshire Hathaway Energy ⁽²⁾	A3 / A- / -	4.5x	4.5x	4.5x	4.4x	15.9%	15.8%	16.3%	15.8%	57%	57%	58%
Regulated U.S. Utilities												
PacifiCorp ^{(2) (3)}	A1 / A+ / -	5.0x	4.7x	5.1x	5.3x	21.5%	19.1%	22.3%	23.1%	48%	47%	48%
MidAmerican Energy ^{(2) (3)}	Aa2 / A+ / -	7.0x	6.5x	6.8x	7.6x	24.3%	21.3%	23.4%	28.1%	50%	47%	47%
Nevada Power ^{(2) (3)}	A2 / A+ / -	4.9x	5.1x	4.8x	4.9x	25.2%	29.8%	23.0%	22.8%	46%	49%	53%
Sierra Pacific ^{(2) (3)}	A2 / A+ / -	6.5x	6.7x	6.8x	6.1x	21.7%	24.0%	22.0%	19.1%	46%	48%	50%
Regulated Pipelines and Electric Distribution												
Northern Natural Gas	A2 / A / -	8.9x	8.9x	8.6x	9.2x	35.1%	32.8%	31.5%	41.1%	38%	37%	34%
AltaLink, L.P. ⁽³⁾	- / A / A	2.9x	2.7x	2.9x	3.1x	11.4%	10.6%	11.3%	12.2%	60%	60%	60%
Northern Powergrid Holdings	Baa1 / A- / -	4.5x	4.7x	4.4x	4.5x	17.2%	16.6%	17.2%	17.7%	44%	42%	43%
Northern Powergrid (Northeast)	A3 / A / -											
Northern Powergrid (Yorkshire)	A3 / A / -											

(1) Moody's / S&P / DBRS. Ratings are issuer or senior unsecured ratings unless otherwise noted

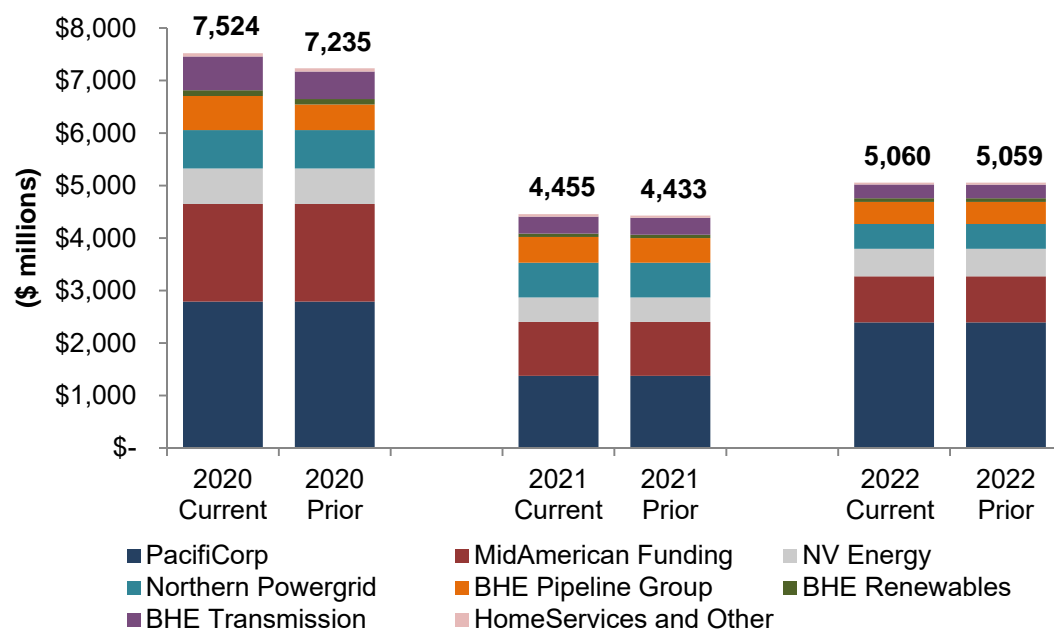
(2) Refer to the Appendix for the calculations of key ratios

(3) Ratings are senior secured ratings

Capital Investment Plan



Capex by Type	Current Plan 2020-2022	Prior Plan 2020-2022	Variance
Operating	\$ 8,837	\$ 8,663	\$ 174
Wind Generation (Growth)	3,670	3,699	(29)
Other Growth	2,112	1,945	167
Electric Transmission (Growth)	2,420	2,420	0
Total	\$ 17,039	\$ 16,727	\$ 312



Capex by Business	Current Plan 2020-2022	Prior Plan 2020-2022	Variance
PacifiCorp	\$ 6,555	\$ 6,555	\$ 0
MidAmerican Funding	3,764	3,764	0
NV Energy	1,669	1,669	0
Northern Powergrid	1,865	1,863	2
BHE Pipeline Group	1,559	1,380	179
BHE Renewables	244	239	5
BHE Transmission	1,227	1,103	124
HomeServices and Other	156	154	2
Total	\$ 17,039	\$ 16,727	\$ 312

2020 Financing Plan

Completed Debt Offerings and Refinancings

- Nevada Power
 - In January 2020, issued \$425 million of 10-year First Mortgage bonds at 2.40% coupon and \$300 million of 30-year First Mortgage bonds at 3.125% coupon
 - In February 2020, redeemed early \$575 million of its 2.75% First Mortgage bonds
- Berkshire Hathaway Energy
 - On March 24, 2020, issued \$1.25 billion of 5-year senior notes at 4.05% coupon
 - On March 27, 2020, issued \$1.1 billion of 10-year senior notes at 3.70% coupon and \$900 million of 30-year senior notes at 4.25% coupon
 - In February 2020, repaid \$350 million of its 2.40% senior notes

Anticipated Debt Offerings

- PacifiCorp
 - Anticipate up to \$850 million debt financing
- Nevada Power and Sierra Pacific Power
 - Anticipate up to \$133 million of tax-exempt debt financing
- Northern Powergrid – Northeast
 - Anticipate up to £250 million debt financing
- AltaLink, L.P. & AILP
 - Anticipate up to C\$625 million debt financing



Questions

Berkshire Hathaway Energy Appendix

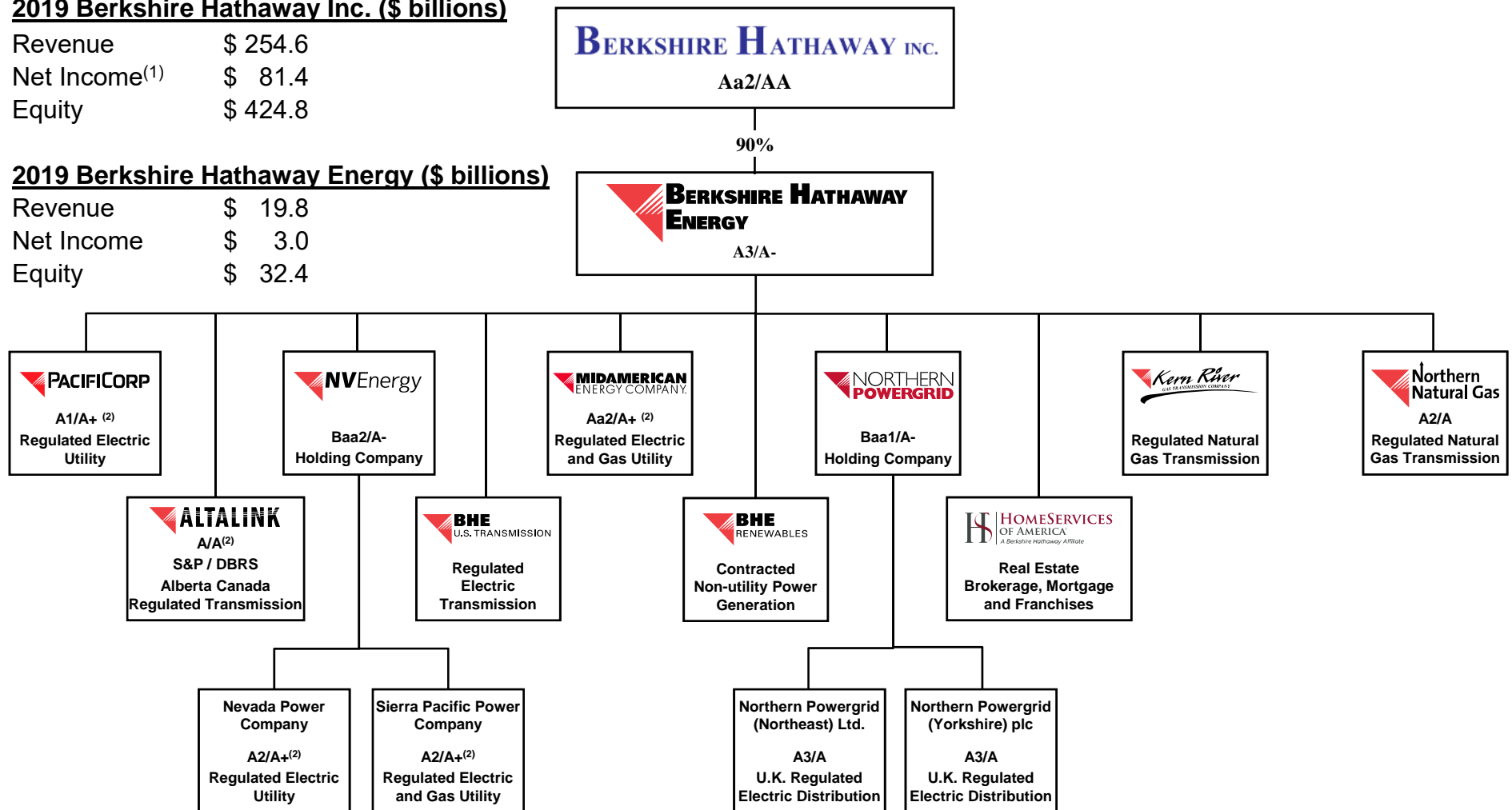
Organizational Structure

2019 Berkshire Hathaway Inc. (\$ billions)

Revenue	\$ 254.6
Net Income ⁽¹⁾	\$ 81.4
Equity	\$ 424.8

2019 Berkshire Hathaway Energy (\$ billions)

Revenue	\$ 19.8
Net Income	\$ 3.0
Equity	\$ 32.4



(1) Warren Buffett's 2019 Berkshire Hathaway Shareholder Letter states – "The components of that figure are \$24 billion of operating earnings, \$3.7 billion of realized capital gains and a \$53.7 billion gain from an increase in the amount of net unrealized capital gains that exist in the stocks we hold."

(2) Ratings for PacifiCorp, MidAmerican Energy Company, Nevada Power Company, Sierra Pacific Power Company and AltaLink L.P. are senior secured ratings

Reportable Segment Information

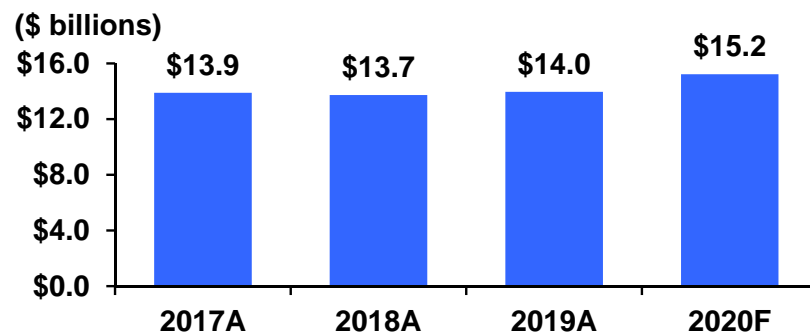
(\$ millions)

Operating Income:

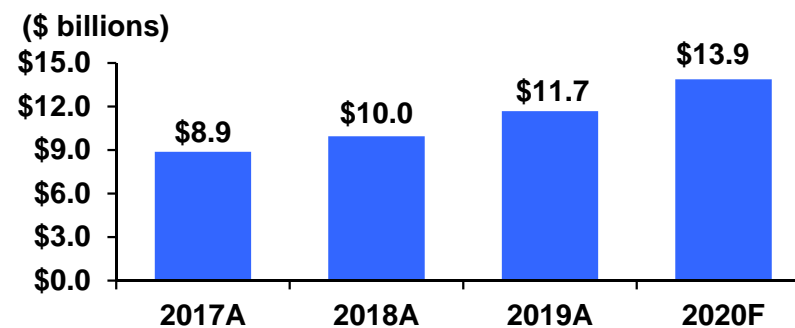
	Years Ended December 31		
	2019	2018	2017
PacifiCorp	\$ 1,072	\$ 1,051	\$ 1,440
MidAmerican Funding	549	550	531
NV Energy	655	607	766
Northern Powergrid	472	486	488
BHE Pipeline Group	572	525	473
BHE Transmission	323	313	322
BHE Renewables	336	325	316
HomeServices	222	214	214
BHE and Other	(51)	1	(41)
Total operating income	4,150	4,072	4,509
Interest expense - senior & subsidiary	(1,907)	(1,833)	(1,822)
Interest expense - junior subordinated debentures	(5)	(5)	(19)
Capitalized interest and other, net	489	269	265
Income before income tax expense and equity income (loss)	2,727	2,503	2,933
Income tax expense (benefit)	(512)	(294)	353
Equity income (loss)	(44)	43	77
Net income	3,195	2,840	2,657
Net income attributable to noncontrolling interests	18	23	40
Adjusted Net income attributable to BHE	3,177	2,817	2,617
Unrealized Loss on BYD, net of Income Taxes	(227)	(383)	-
Debt Tender Offer Premium	-	-	(263)
2017 Tax Reform	-	134	516
Net income attributable to BHE	\$ 2,950	\$ 2,568	\$ 2,870

Rate Base

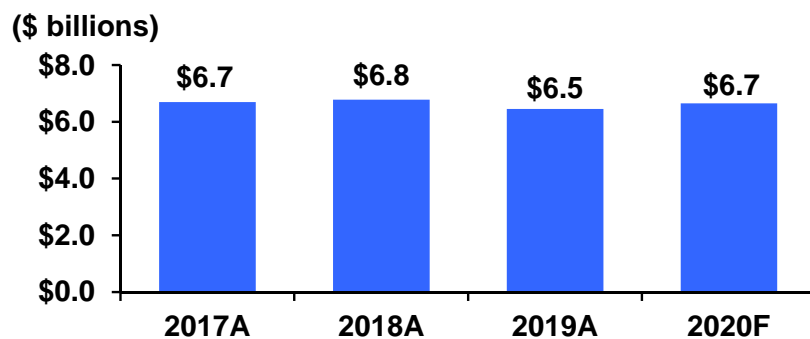
PacifiCorp



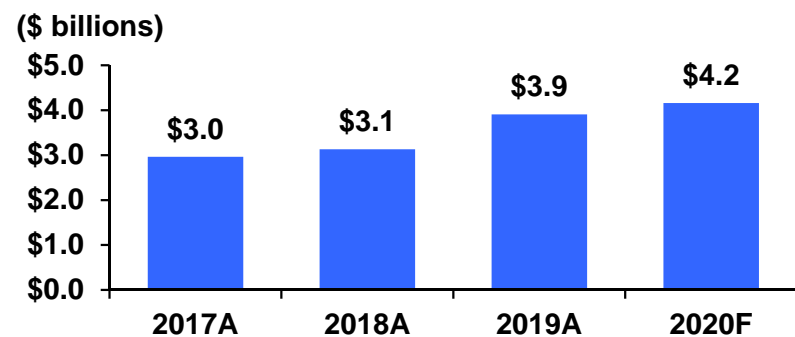
MidAmerican Energy



NV Energy



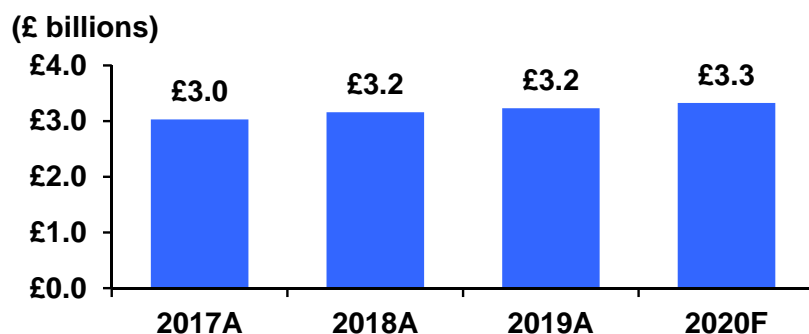
BHE Pipeline Group



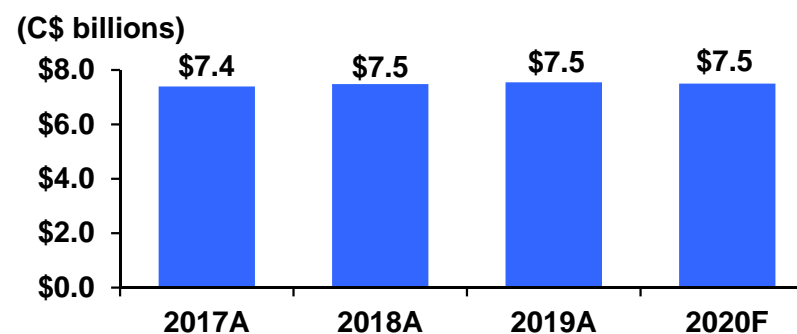
Note: Rate base represents mid-year averages

Rate Base

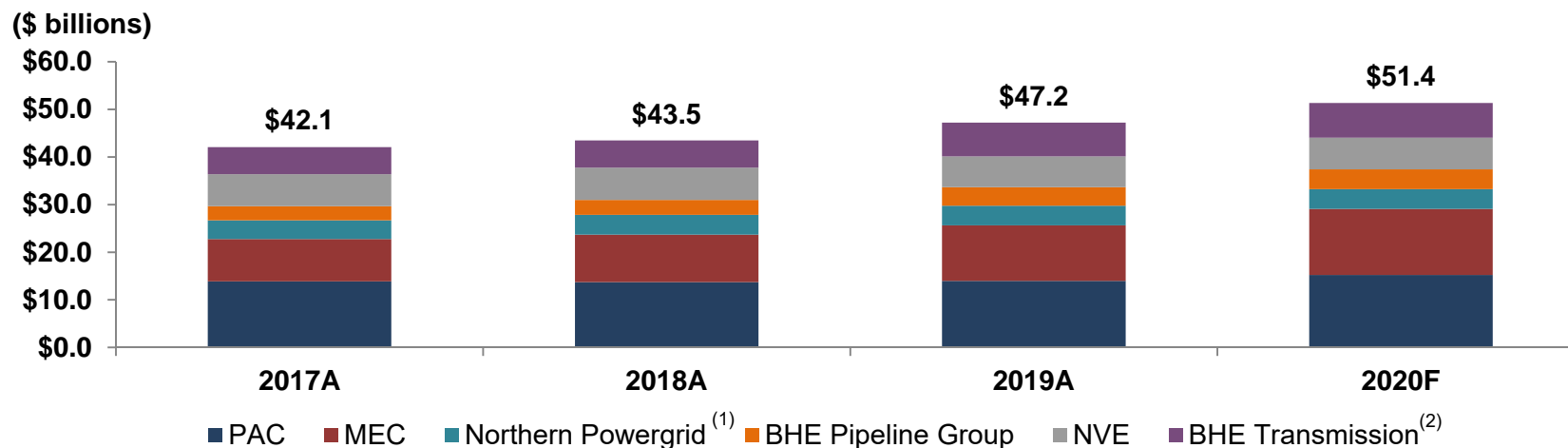
Northern Powergrid



AltaLink, L.P.



Berkshire Hathaway Energy



Note: Rate base represents mid-year averages

(1) Northern Powergrid rate base converted into USD at the June 30 USD/GBP FX rate each year including 1.30 (2017), 1.32 (2018), 1.27 (2019), and 1.25 (2020 estimate)

(2) AltaLink, L.P. rate base converted into USD at the June 30 CAD/USD FX rate each year including 1.30 (2017), 1.31 (2018), 1.31 (2019), and 1.30 (2020 estimate)

Long-Term Debt Summary as of December 31, 2019

Consolidated Berkshire Hathaway Energy

	\$ (millions)	Wt. Avg. Coupon	Wt. Avg. Life (Years) ⁽¹⁾
Berkshire Hathaway Energy - Parent	8,581	4.62%	16.3
PacifiCorp	7,658	4.87%	14.3
MidAmerican Funding	7,427	4.15%	19.5
NV Energy	3,821	4.48%	10.6
Northern Powergrid ⁽²⁾	3,221	4.69%	12.3
Northern Natural Gas	1,247	4.43%	21.9
BHE Canada ⁽³⁾	3,879	3.88%	16.6
BHE Renewables	3,206	4.85%	8.1
HomeServices	213	3.30%	2.3
Total Berkshire Hathaway Energy Long-Term Debt	39,253	4.50%	15.1
Berkshire Hathaway Energy - Parent Junior Subordinated Debentures	100	5.00%	37.5
Northern Electric Preferred Stock - Perpetual	56	8.06%	30.0
PacifiCorp Preferred Stock - Perpetual	2	6.75%	30.0
Total Berkshire Hathaway Energy Preferred Stock and Jr. Sub. Debentures	158	6.11%	34.7
Total Berkshire Hathaway Energy Long-Term Securities	39,411	4.51%	15.2

⁽¹⁾ Weighted average life assumes perpetual preferred stock has an average life of 30 years

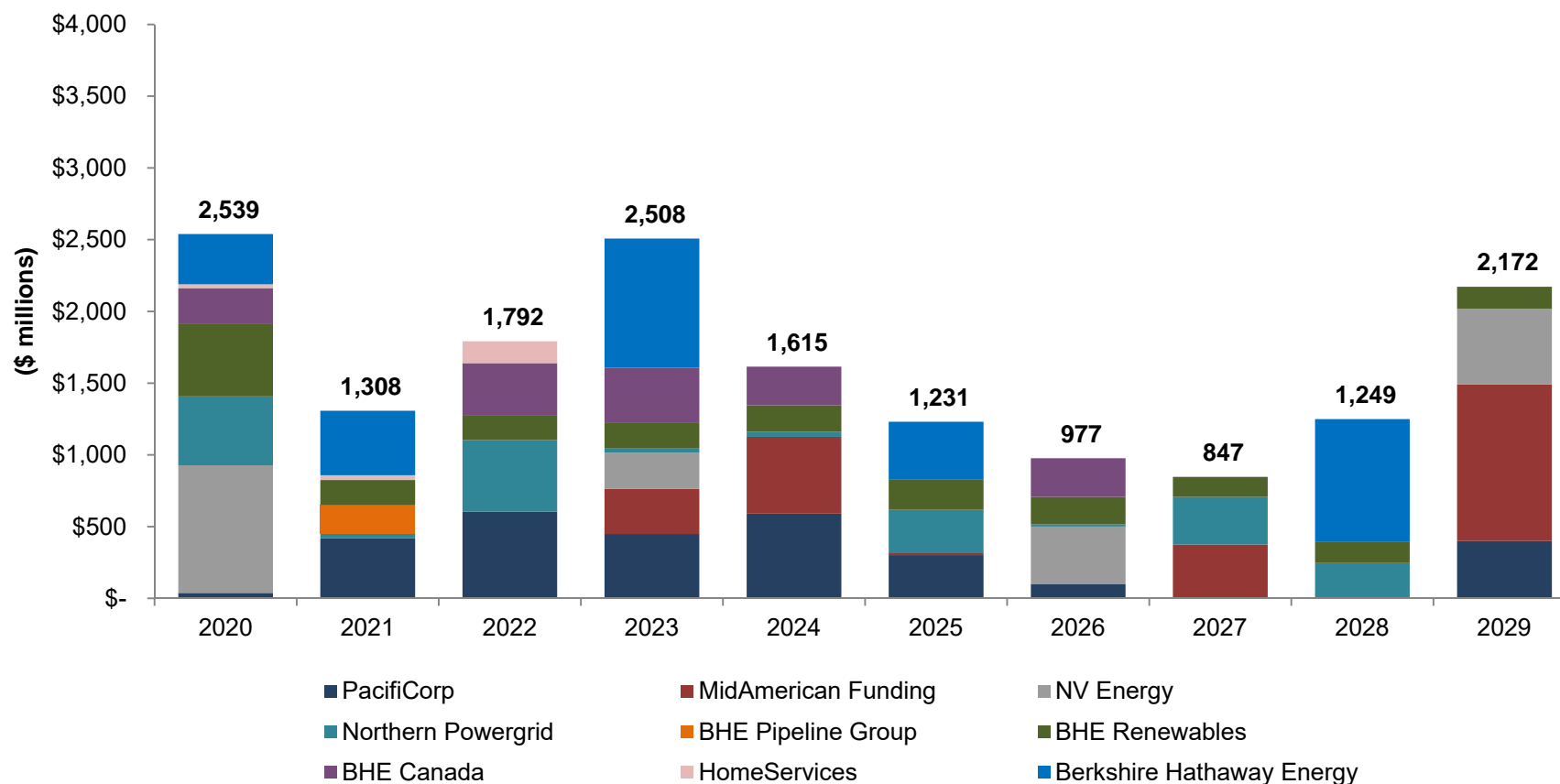
⁽²⁾ USD to GBP exchange rate at \$1.33/pound

⁽³⁾ CAD to USD exchange rate at \$1.30/USD

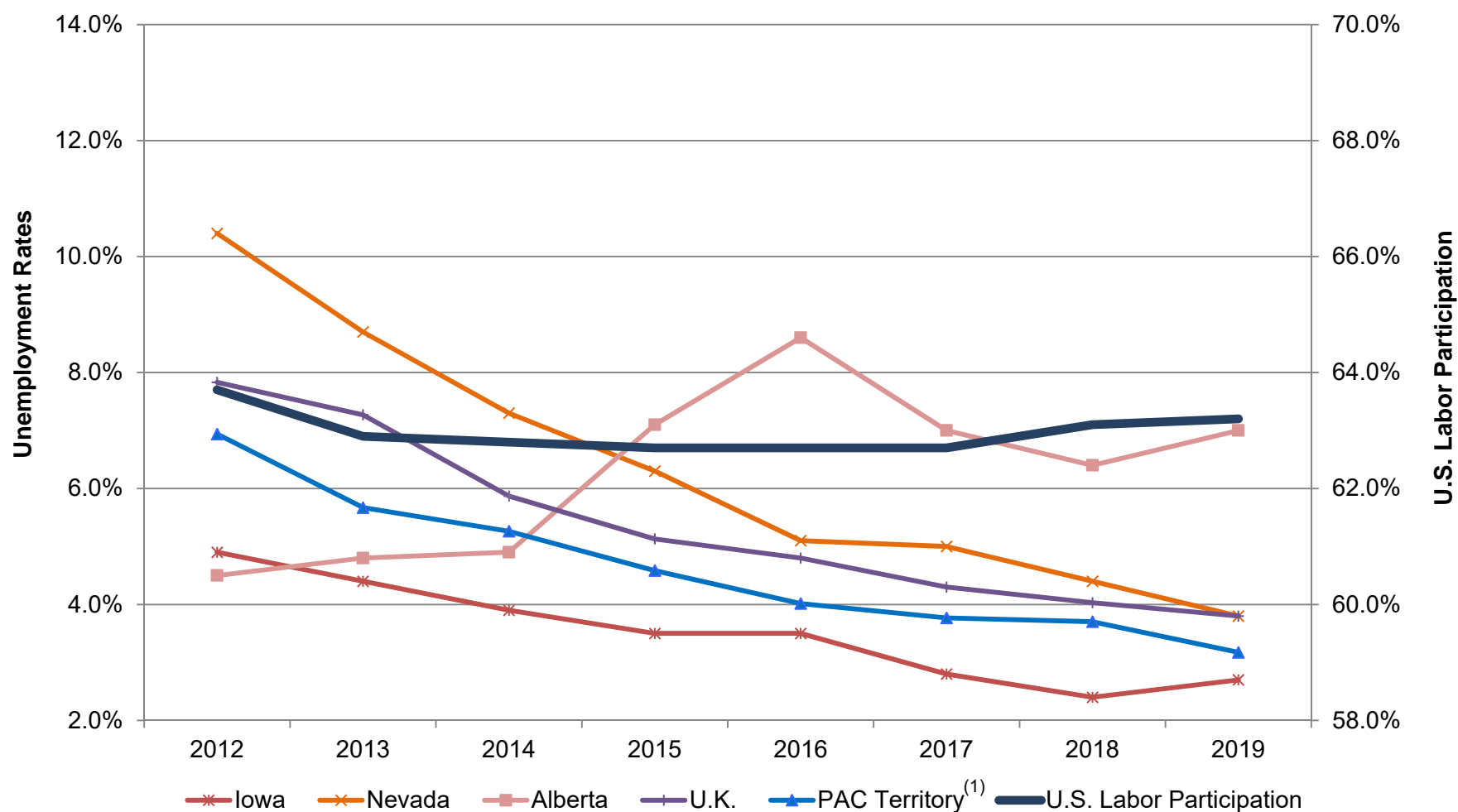
- In January 2020, Nevada Power issued \$725 million First Mortgage bonds primarily to repay maturing debt of \$575 million in February 2020
- In March 2020, Berkshire Hathaway Energy issued \$3.25 billion of senior notes. A portion of the proceeds were used to repay outstanding short-term indebtedness incurred when \$350 million senior bonds were repaid in February 2020

Debt Maturities as of December 31, 2019

Long-Term Debt Maturities



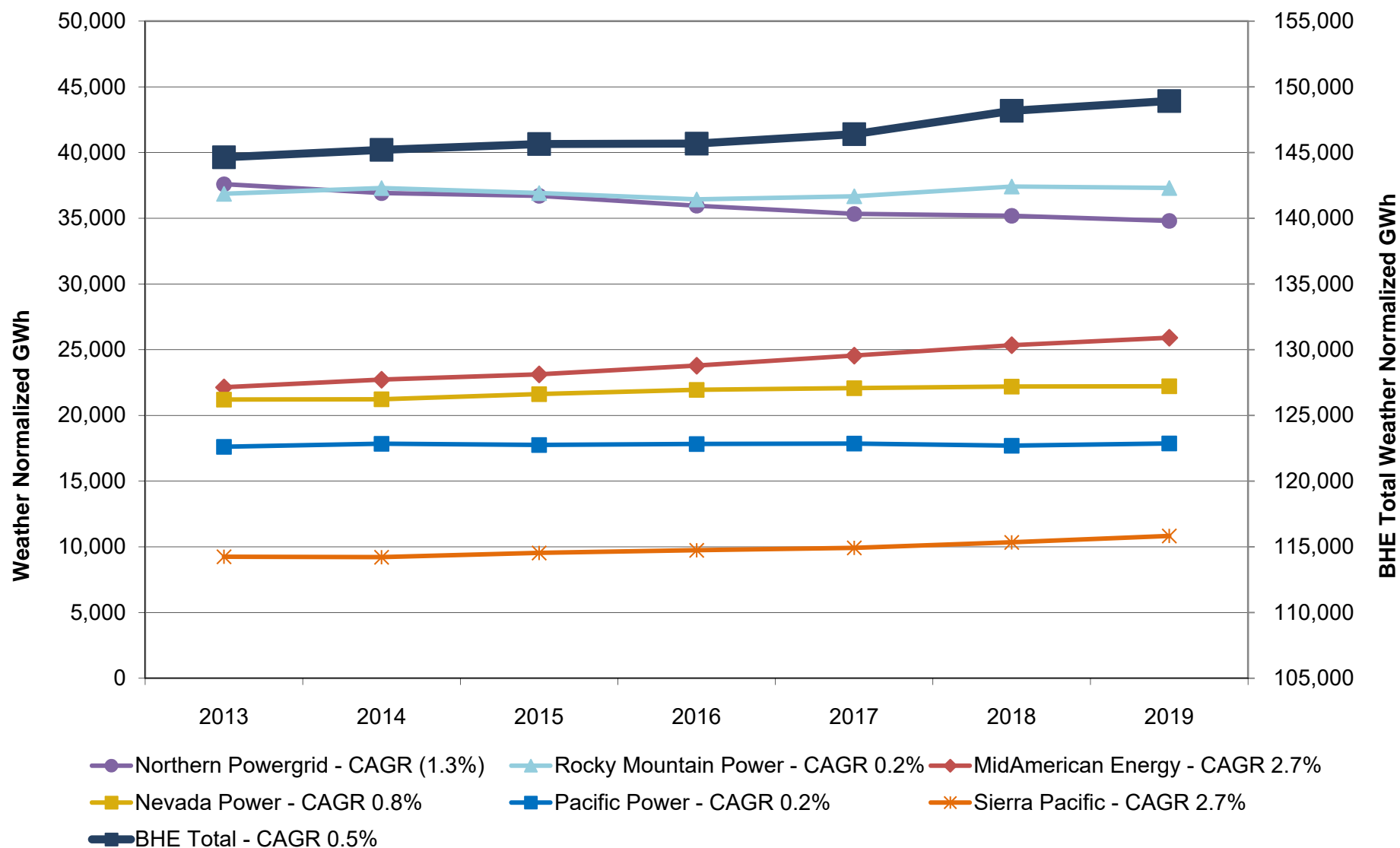
Jurisdictional Strength – Unemployment Rates



Source: Bloomberg, Bureau of Labor and Statistics

(1) Weighted average of Oregon, Utah and Wyoming

Retail Electric Sales – Weather Normalized



Retail Electric Sales – Weather Normalized

(GWh)	December 31		Variance	
	2019	2018	Actual	Percent
PacifiCorp				
Residential	16,489	16,312	177	1.1%
Commercial	18,134	18,023	111	0.6%
Industrial and Other	20,549	20,776	(227)	-1.1%
Total	55,172	55,111	61	0.1%
MidAmerican Energy				
Residential	6,352	6,359	(7)	-0.1%
Commercial	3,856	3,797	59	1.6%
Industrial and Other	15,705	15,191	514	3.4%
Total	25,913	25,347	566	2.2%
Nevada Power				
Residential	9,364	9,373	(9)	-0.1%
Commercial	4,685	4,689	(4)	-0.1%
Industrial and Other	5,547	5,651	(104)	-1.8%
Distribution Only Service	2,620	2,479	141	5.7%
Total	22,216	22,192	24	0.1%
Sierra Pacific				
Residential	2,487	2,437	50	2.1%
Commercial	2,977	2,993	(16)	-0.5%
Industrial and Other	3,733	3,397	336	9.9%
Distribution Only Service	1,629	1,515	114	7.5%
Total	10,826	10,342	484	4.7%
Northern Powergrid				
Residential	12,482	12,493	(11)	-0.1%
Commercial	4,106	4,186	(80)	-1.9%
Industrial and Other	18,211	18,513	(302)	-1.6%
Total	34,799	35,192	(393)	-1.1%

Retail Electric Sales – Actual

(GWh)	December 31		Variance	
	2019	2018	Actual	Percent
PacifiCorp				
Residential	16,668	16,227	441	2.7%
Commercial	18,151	18,078	73	0.4%
Industrial and Other	20,524	20,810	(286)	-1.4%
Total	55,343	55,115	228	0.4%
MidAmerican Energy				
Residential	6,575	6,763	(188)	-2.8%
Commercial	3,921	3,897	24	0.6%
Industrial and Other	15,705	15,191	514	3.4%
Total	26,201	25,851	350	1.4%
Nevada Power				
Residential	9,311	9,970	(659)	-6.6%
Commercial	4,657	4,778	(121)	-2.5%
Industrial and Other	5,537	5,748	(211)	-3.7%
Distribution Only Service	2,613	2,521	92	3.6%
Total	22,118	23,017	(899)	-3.9%
Sierra Pacific				
Residential	2,491	2,483	8	0.3%
Commercial	2,973	2,998	(25)	-0.8%
Industrial and Other	3,732	3,403	329	9.7%
Distribution Only Service	1,629	1,516	113	7.5%
Total	10,825	10,400	425	4.1%
Northern Powergrid				
Residential	12,293	12,538	(245)	-2.0%
Commercial	4,035	4,258	(223)	-5.2%
Industrial and Other	18,211	18,618	(407)	-2.2%
Total	34,539	35,414	(875)	-2.5%

Private Generation Penetration Rate

Berkshire Hathaway Energy – Impact of Private Generation

	Private Generation Customers as of December 2019	Total Electric Customers as of December 2019	Private Generation Portion of Total Customers
MidAmerican Energy			
Iowa	1,038	700,088	0.15%
Illinois	135	85,569	0.16%
South Dakota	0	5,145	0.00%
PacifiCorp			
Utah	38,499	946,324	4.07%
Oregon	7,509	600,183	1.25%
Wyoming	347	141,877	0.24%
Washington	1,356	132,756	1.02%
Idaho	1,161	82,254	1.41%
California	540	45,590	1.18%
NV Energy			
Nevada	50,590	1,316,007	3.84%
Total Customers	101,175	4,055,793	2.49%

Berkshire Hathaway Energy

2019 Adjusted Net Income Reconciliation

<i>(\$ millions)</i>	Net Income adjusted	Unrealized Loss on BYD	Net Income as reported
PacifiCorp	\$ 773	\$ -	\$ 773
MidAmerican Funding	781	-	781
NV Energy	365	-	365
Northern Powergrid	256	-	256
BHE Pipeline Group	422	-	422
BHE Transmission	229	-	229
BHE Renewables	431	-	431
HomeServices	160	-	160
BHE and Other	(240)	(227)	(467)
Net Income	3,177	(227)	2,950
Operating Revenue	19,844	-	19,844
Total Operating Costs and Expenses	15,694	-	15,694
Operating Income	4,150	-	4,150
Interest Expense - Senior & Subsidiary	(1,907)	-	(1,907)
Interest Expense - Junior Subordinated Debentures	(5)	-	(5)
Capitalized interest and other, net	489	(313)	176
Income Tax (Benefit) Expense	(512)	(86)	(598)
Equity (Loss) Income	(44)	-	(44)
Net Income Attributable to Noncontrolling Interests	18	-	18
Net Income	\$ 3,177	\$ (227)	\$ 2,950

Berkshire Hathaway Energy

2018 Adjusted Net Income Reconciliation

(\$ millions)

	Net Income adjusted	Tax Reform	Unrealized Loss on BYD	Net Income as reported
PacifiCorp	\$ 739	\$ -	\$ -	\$ 739
MidAmerican Funding	669	-	-	669
NV Energy	317	-	-	317
Northern Powergrid	239	-	-	239
BHE Pipeline Group	387	-	-	387
BHE Transmission	210	-	-	210
BHE Renewables	329	-	-	329
HomeServices	145	-	-	145
BHE and Other	(218)	134	(383)	(467)
Net Income	2,817	134	(383)	2,568
Operating Revenue	19,787	-	-	19,787
Total Operating Costs and Expenses	15,715	-	-	15,715
Operating Income	4,072	-	-	4,072
Interest Expense - Senior & Subsidiary	(1,833)	-	-	(1,833)
Interest Expense - Junior Subordinated Debentures	(5)	-	-	(5)
Capitalized interest and other, net	269	-	(538)	(269)
Income Tax (Benefit) Expense	(294)	(134)	(155)	(583)
Equity (Loss) Income	43	-	-	43
Net Income Attributable to Noncontrolling Interests	23	-	-	23
Net Income	\$ 2,817	\$ 134	\$ (383)	\$ 2,568

Berkshire Hathaway Energy

2017 Adjusted Net Income Reconciliation

(\$ millions)

	Net Income adjusted	Tax Reform	Debt Tender Offer Premium	Net Income as reported
PacifiCorp	\$ 763	\$ 6	\$ -	\$ 769
MidAmerican Funding	601	(10)	(17)	574
NV Energy	365	(19)	-	346
Northern Powergrid	251	-	-	251
BHE Pipeline Group	270	7	-	277
BHE Transmission	224	-	-	224
BHE Renewables	236	628	-	864
HomeServices	118	31	-	149
BHE and Other	(211)	(127)	(246)	(584)
Net Income	2,617	516	(263)	2,870
Operating Revenue	18,614	-	-	18,614
Total Operating Costs and Expenses	14,105	(13)	-	14,092
Operating Income	4,509	13	-	4,522
Interest Expense - Senior & Subsidiary	(1,822)	-	-	(1,822)
Interest Expense - Junior Subordinated Debentures	(19)	-	-	(19)
Capitalized interest and other, net	265	-	(439)	(174)
Income Tax (Benefit) Expense	353	(731)	(176)	(554)
Equity (Loss) Income	77	(228)	-	(151)
Net Income Attributable to Noncontrolling Interests	40	-	-	40
Net Income	\$ 2,617	\$ 516	\$ (263)	\$ 2,870

Berkshire Hathaway Energy

Non-GAAP Financial Measures

(\$ millions)

FFO	2019	2018	2017
Net cash flows from operating activities	\$ 6,206	\$ 6,770	\$ 6,078
+/- Changes in other operating assets and liabilities	490	(389)	165
FFO	\$ 6,696	\$ 6,381	\$ 6,243
Adjusted Interest			
Interest expense	\$ 1,912	\$ 1,838	\$ 1,841
Interest expense on subordinated debt	(5)	(5)	(19)
Adjusted Interest	\$ 1,907	\$ 1,833	\$ 1,822
FFO Interest Coverage⁽¹⁾	4.5x	4.5x	4.4x
Adjusted Debt			
Debt ⁽²⁾	\$ 42,567	\$ 39,290	\$ 39,681
Subordinated debt	(100)	(100)	(100)
Adjusted Debt	\$ 42,467	\$ 39,190	\$ 39,581
FFO to Adjusted Debt⁽³⁾	15.8%	16.3%	15.8%
Capitalization			
Berkshire Hathaway Energy shareholders' equity	\$ 32,449	\$ 29,593	\$ 28,176
Adjusted debt	42,467	39,190	39,581
Subordinated debt	100	100	100
Noncontrolling interests	129	130	132
Capitalization	\$ 75,145	\$ 69,013	\$ 67,989
Adjusted Debt to Total Capitalization⁽⁴⁾	56.5%	56.8%	58.2%

⁽¹⁾ FFO Interest Coverage equals the sum of FFO and Adjusted Interest divided by Adjusted Interest

⁽²⁾ Debt includes short-term debt, Berkshire Hathaway Energy senior debt, Berkshire Hathaway Energy subordinated debt and subsidiary debt (including current maturities). Excludes capital leases starting in 2019

⁽³⁾ FFO to Adjusted Debt equals FFO divided by Adjusted Debt

⁽⁴⁾ Adjusted Debt to Total Capitalization equals Adjusted Debt divided by Capitalization

PacifiCorp

Non-GAAP Financial Measures

(\$ millions)

<u>FFO</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Net cash flows from operating activities	\$ 1,547	\$ 1,811	\$ 1,602
+/- Changes in other operating assets and liabilities	(60)	(236)	39
FFO	\$ 1,487	\$ 1,575	\$ 1,641
Interest expense	\$ 401	\$ 384	\$ 381
FFO Interest Coverage⁽¹⁾	4.7x	5.1x	5.3x
Debt⁽²⁾	\$ 7,788	\$ 7,066	\$ 7,105
FFO to Debt⁽³⁾	19.1%	22.3%	23.1%
<u>Capitalization</u>			
PacifiCorp shareholders' equity	\$ 8,437	\$ 7,845	\$ 7,555
Debt	7,788	7,066	7,105
Capitalization	\$ 16,225	\$ 14,911	\$ 14,660
Debt to Total Capitalization⁽⁴⁾	48.0%	47.4%	48.5%

⁽¹⁾ FFO Interest Coverage equals the sum of FFO and Interest divided by Interest

⁽²⁾ Debt includes short-term debt and current maturities. Excludes capital leases starting in 2019

⁽³⁾ FFO to Debt equals FFO divided by Debt

⁽⁴⁾ Debt to Total Capitalization equals Debt divided by Capitalization

MidAmerican Energy

Non-GAAP Financial Measures

(\$ millions)

<u>FFO</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Net cash flows from operating activities	\$ 1,490	\$ 1,508	\$ 1,396
+/- Changes in other operating assets and liabilities	42	(190)	19
FFO	\$ 1,532	\$ 1,318	\$ 1,415
Interest expense	\$ 281	\$ 227	\$ 214
FFO Interest Coverage⁽¹⁾	6.5x	6.8x	7.6x
Debt⁽²⁾	\$ 7,208	\$ 5,621	\$ 5,042
FFO to Debt⁽³⁾	21.3%	23.4%	28.1%
<u>Capitalization</u>			
MidAmerican Energy shareholder's equity	\$ 7,240	\$ 6,446	\$ 5,764
Debt	7,208	5,621	5,042
Capitalization	\$ 14,448	\$ 12,067	\$ 10,806
Debt to Total Capitalization⁽⁴⁾	49.9%	46.6%	46.7%

⁽¹⁾ FFO Interest Coverage equals the sum of FFO and Interest divided by Interest

⁽²⁾ Debt includes short-term debt and current maturities. Excludes capital leases starting in 2019

⁽³⁾ FFO to Debt equals FFO divided by Debt

⁽⁴⁾ Debt to Total Capitalization equals Debt divided by Capitalization

Nevada Power

Non-GAAP Financial Measures

(\$ millions)

FFO	2019	2018	2017
Net cash flows from operating activities	\$ 701	\$ 619	\$ 665
+/- Changes in other operating assets and liabilities	(1)	30	37
FFO	\$ 700	\$ 649	\$ 702
Interest expense	\$ 171	\$ 170	\$ 179
FFO Interest Coverage⁽¹⁾	5.1x	4.8x	4.9x
Debt⁽²⁾	\$ 2,351	\$ 2,816	\$ 3,075
FFO to Debt⁽³⁾	29.8%	23.0%	22.8%
Capitalization			
Nevada Power shareholder's equity	\$ 2,797	\$ 2,904	\$ 2,678
Debt	2,351	2,816	3,075
Capitalization	\$ 5,148	\$ 5,720	\$ 5,753
Debt to Total Capitalization⁽⁴⁾	45.7%	49.2%	53.5%

⁽¹⁾ FFO Interest Coverage equals the sum of FFO and Interest divided by Interest

⁽²⁾ Debt includes short-term debt and current maturities. Excludes capital leases starting in 2019

⁽³⁾ FFO to Debt equals FFO divided by Debt

⁽⁴⁾ Debt to Total Capitalization equals Debt divided by Capitalization

Sierra Pacific

Non-GAAP Financial Measures

(\$ millions)

<u>FFO</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Net cash flows from operating activities	\$ 237	\$ 275	\$ 181
+/- Changes in other operating assets and liabilities	35	(20)	39
FFO	\$ 272	\$ 255	\$ 220
Interest expense	\$ 48	\$ 44	\$ 43
FFO Interest Coverage⁽¹⁾	6.7x	6.8x	6.1x
Debt⁽²⁾	\$ 1,135	\$ 1,158	\$ 1,154
FFO to Debt⁽³⁾	24.0%	22.0%	19.1%
<u>Capitalization</u>			
Sierra Pacific Power shareholder's equity	\$ 1,320	\$ 1,264	\$ 1,172
Debt	1,135	1,158	1,154
Capitalization	\$ 2,455	\$ 2,422	\$ 2,326
Debt to Total Capitalization⁽⁴⁾	46.2%	47.8%	49.6%

⁽¹⁾ FFO Interest Coverage equals the sum of FFO and Interest divided by Interest

⁽²⁾ Debt includes short-term debt and current maturities. Excludes capital leases starting in 2019

⁽³⁾ FFO to Debt equals FFO divided by Debt

⁽⁴⁾ Debt to Total Capitalization equals Debt divided by Capitalization



Gary Hoogeveen

President and CEO
Rocky Mountain Power

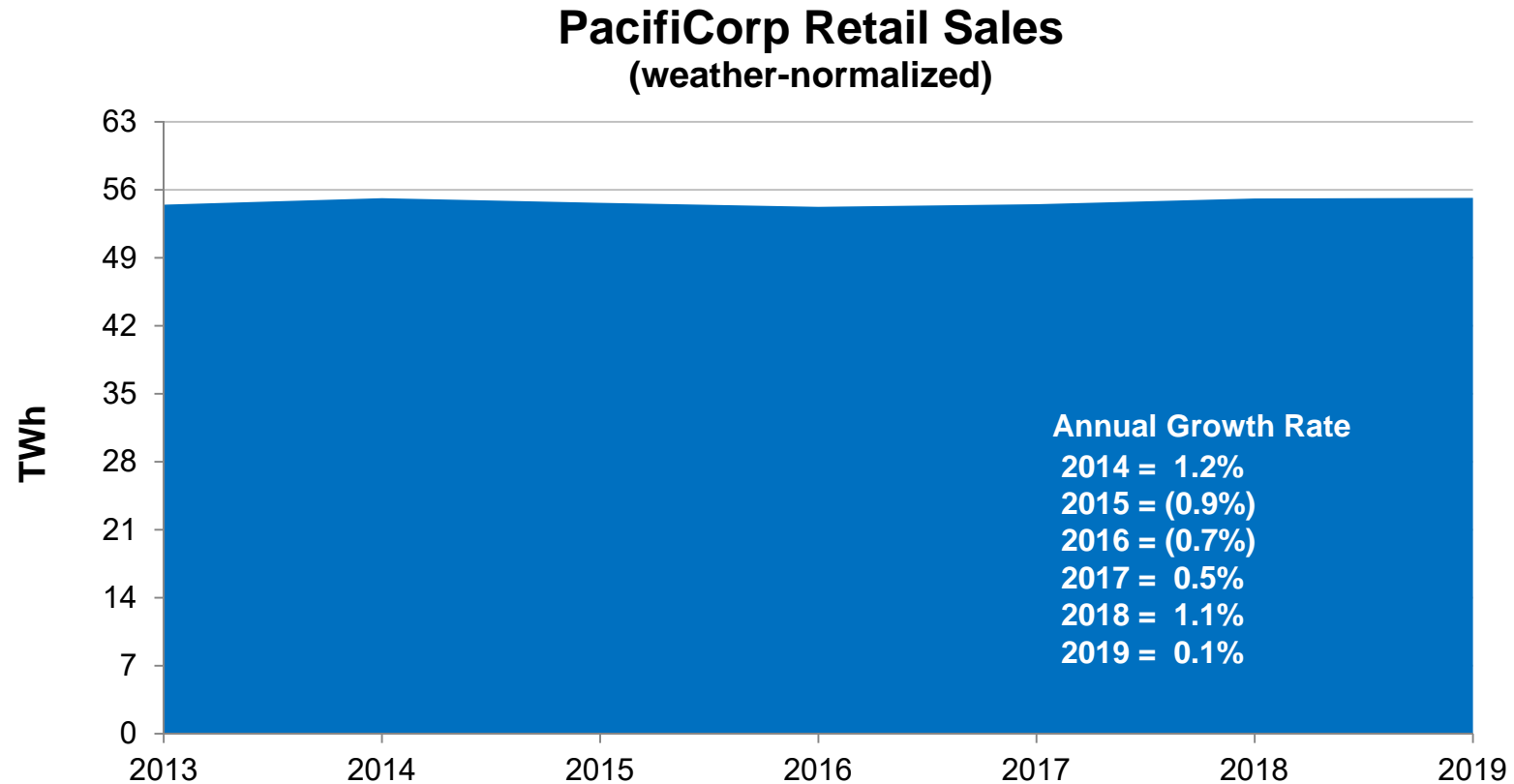
Stefan Bird

President and CEO
Pacific Power

PacifiCorp Retail Sales

2019 compared to 2018 up 0.1%

- Residential sales up 1.1%
- Industrial sales down 0.8%
- Commercial sales up 0.6%



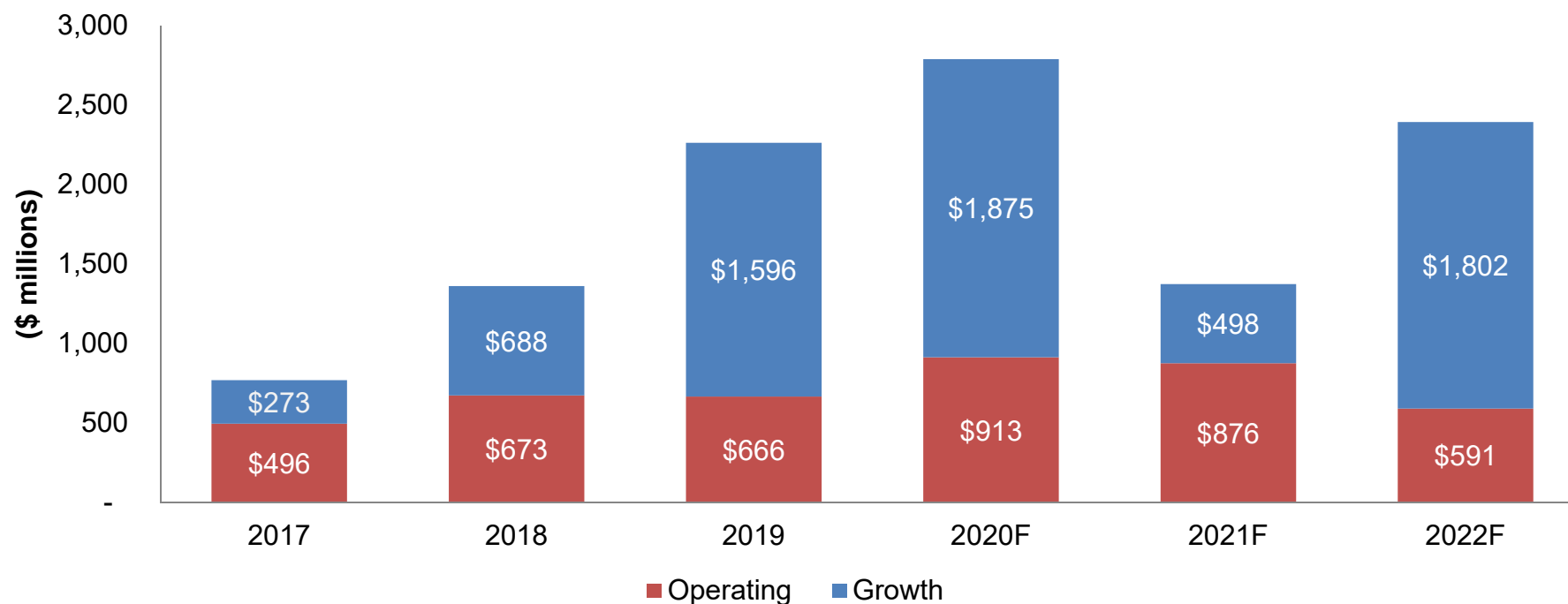
PacifiCorp

Capital Investment Plan

2020-2022 Investment Forecast

- Growth projects of more than \$4 billion include continued investments in new wind projects, wind repowering, plus additional transmission and network investments related to additional transfer capability from eastern Wyoming to central Utah
- Operating investments are being driven by wildfire mitigation spending plus additional investments in distribution and transmission facilities with reductions occurring in thermal operations

(\$ millions) 2020-2022	Current Plan	Prior Plan
Growth	\$ 4,175	\$ 4,175
Operating	2,380	2,380
Total	\$ 6,555	\$ 6,555



Energy Vision 2020 Overview

- Investment of approximately \$3 billion for Energy Vision 2020 initiative to:
 - Repower approximately 1,000 MW of existing wind resources
 - Add 1,150 MW of new wind with 200 MW through a power purchase agreement
 - Add a new 140-mile 500-kV transmission segment to deliver the new wind and relieve congestion of existing capacity
 - Provides approximately \$447 million of present-value benefits for customers (2017-2050)
- Investment of approximately \$500 million for additional resources added in 2020:
 - Repower 41 MW Foote Creek project after acquisition of third-party ownership share
 - 240 MW Pryor Mountain Wind, located in Montana
- Project timeline:
 - Repowering projects complete first quarter 2020
 - Begin delivery of wind turbine generators (new wind projects) April 2020
 - Foote Creek repowering to be completed by December 2020
 - New wind and transmission in-service December 2020



Portfolio Transformation

- PacifiCorp's generation portfolio transformation plan is reflected in the 2019 IRP and reflects a significant reduction in coal generation while adding renewables and storage

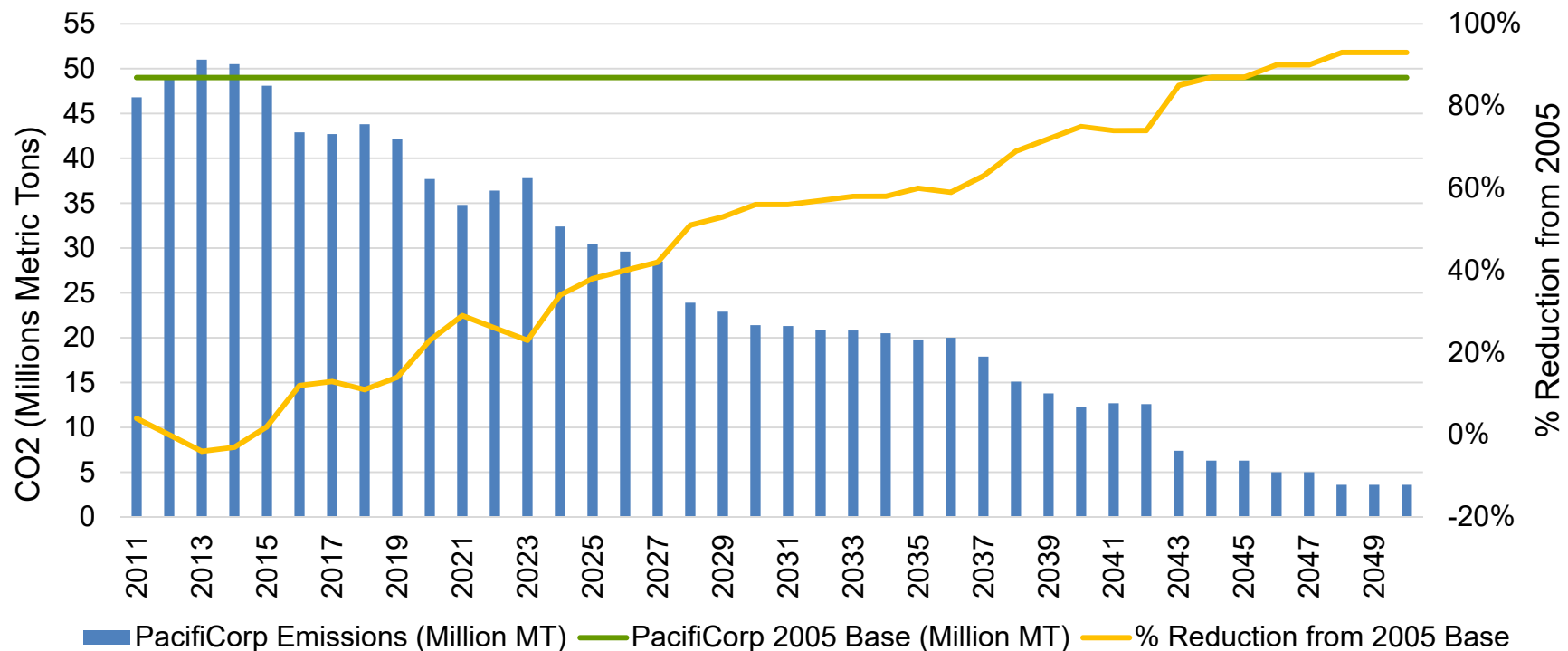
2019 IRP Cumulative (Retirements) and Additions				
Retirements	2020	2023	2030	2038
Coal Generation	(395) MW	(749) MW	(2,596) MW	(4,207) MW
Additions	2020	2023	2030	2038
Solar Generation	559 MW	2,939 MW	3,798 MW	6,303 MW
Wind Generation	1,565 MW	3,531 MW	4,571 MW	4,651 MW
Total	2,124 MW	6,470 MW	8,369 MW	10,954 MW
Storage Resources	0 MW	596 MW	1,427 MW	2,821 MW

Owned and contracted resources acquired through customer partnerships, used for renewable portfolio standards compliance, or for third-party sales of renewable attributes are included in the total capacity figures quoted



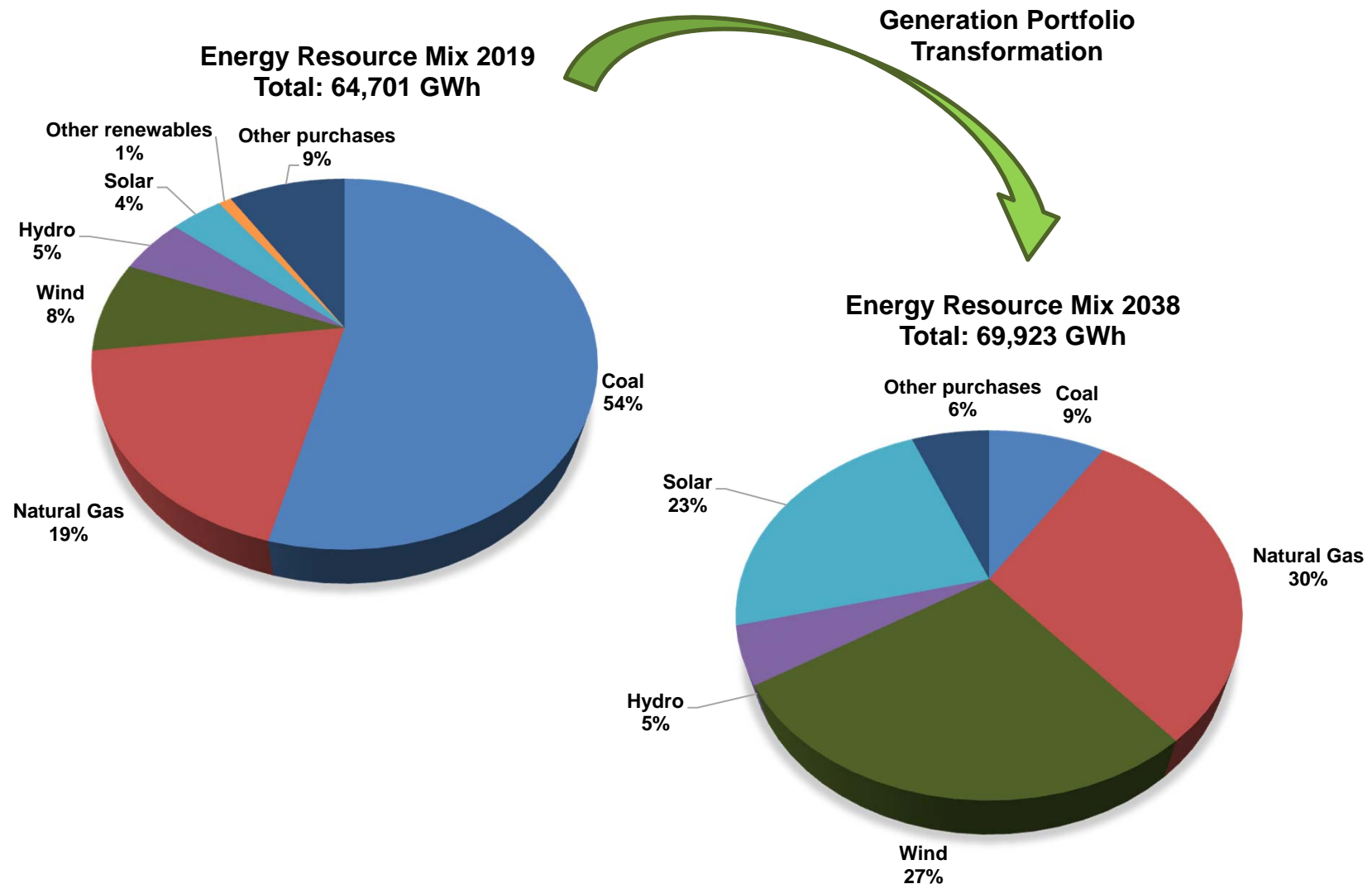
Emission Reduction Levels

PacifiCorp CO2 Emissions Trajectory



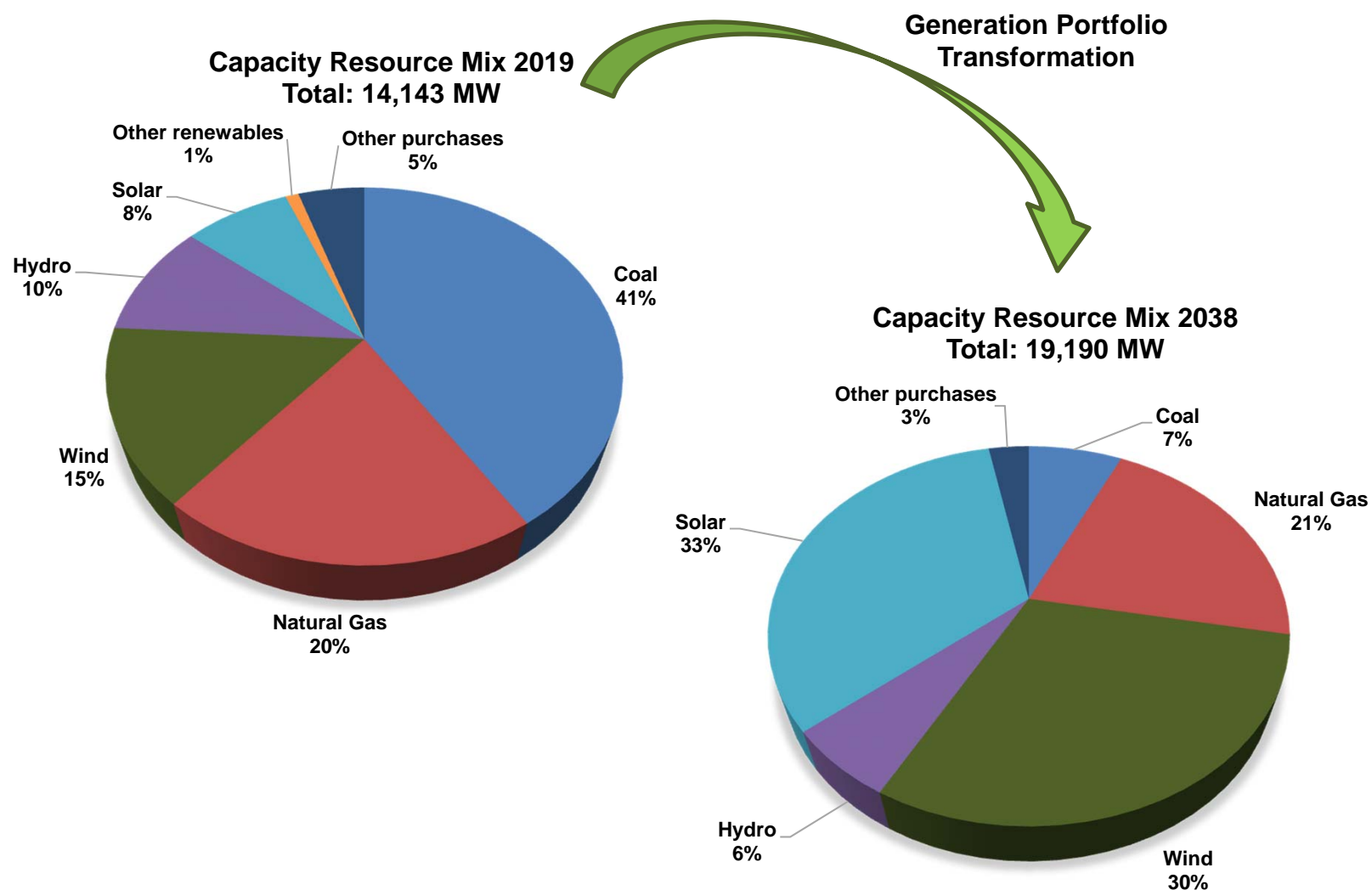
- PacifiCorp's CO₂ emissions are significantly reduced as its portfolio transformation continues with coal plant shutdowns and expansion of renewable resources
- In December 2019, PacifiCorp took steps to shutdown Cholla Unit 4 by year-end 2020 (versus April 2025 as required by the Arizona State Implementation Plan)

Owned and Contracted Energy Resource Mix



Resources acquired through purchased power agreements, customer partnerships, used for renewable portfolio standard compliance, or for third-party sales of renewable attributes are included in the figures reported

Owned and Contracted Capacity Resource Mix



Resources acquired through purchased power agreements, customer partnerships, used for renewable portfolio standard compliance, or for third-party sales of renewable attributes are included in the figures reported

Gateway South and Wyoming Renewables

- Investment of \$1.8 billion for Gateway South segment, plus \$500 million for network upgrades (including Segment D1 – Windstar to Aeolus):
 - Adds 400 miles of 500-kV transmission
 - Adds approximately 1,700 MW of transfer capability from eastern Wyoming (Aeolus) to the central Utah energy hub (Mona/Clover)
 - Allows interconnection of an additional 1,920 MW of renewable generation resources in eastern Wyoming deliverable across PacifiCorp's system
- Project timeline:
 - 2019 Integrated Resource Plan was filed October 2019
 - Full notice to proceed by June 2021
 - Construction complete by December 2023

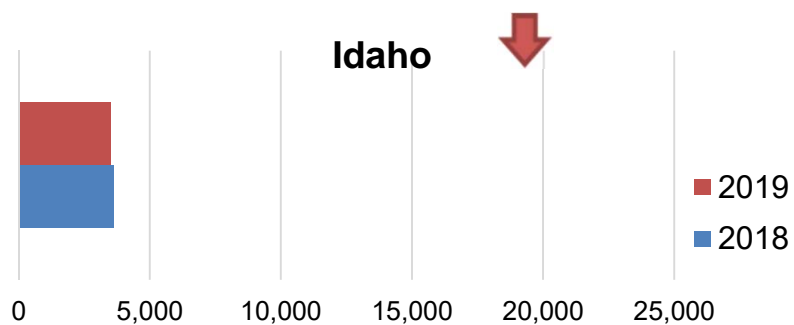
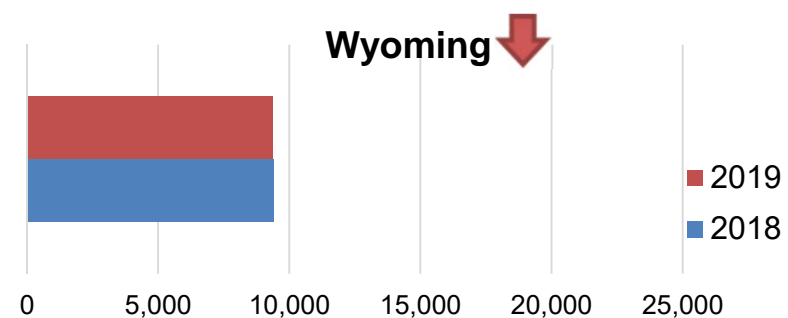
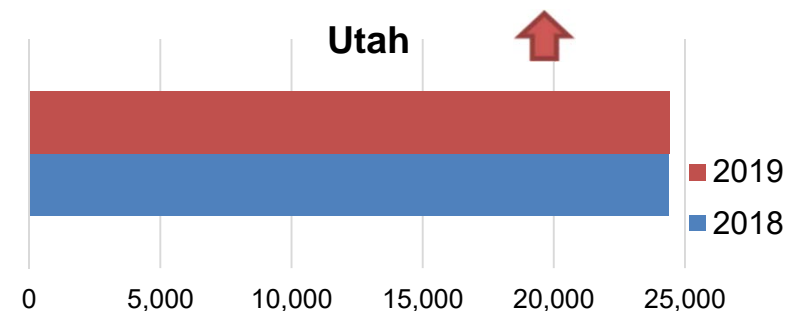
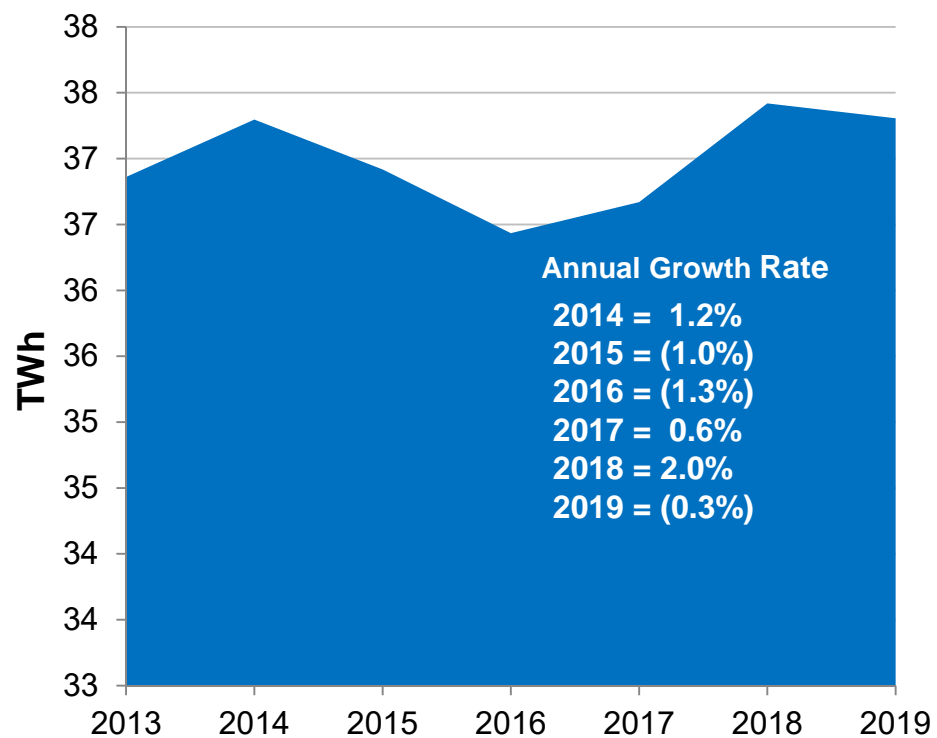




Rocky Mountain Power

Rocky Mountain Power Retail Sales

**Rocky Mountain Power
Retail Sales
(weather-normalized)**



Rocky Mountain Power Regulatory Update

PacifiCorp

- In September 2018, PacifiCorp filed applications in Utah, Wyoming, Idaho, Oregon and Washington for depreciation rate changes that would increase depreciation expense by approximately \$300 million, effective January 1, 2021. A settlement agreement was filed in Utah, Idaho and Wyoming in March 2020 that makes adjustments to specific accounts. The study continues to be evaluated by parties in Oregon and Washington for approval in 2020

Utah (authorized ROE 9.8%)

- Last general rate case filed in 2014. Rocky Mountain Power made a customer pledge in 2017 to not increase base rates prior to 2021. A rate case is anticipated to be filed in May 2020, with a January 1, 2021, rate effective date
 - In April 2018, the Utah Public Service Commission ordered a rate reduction of \$61 million, or 3.1%, effective May 1, 2018, related to the impact of Tax Cut and Jobs Act of 2017 (2017 Tax Reform), which remains in effect until the next general rate case; other benefits provided through acceleration of depreciation and deferral to offset costs in the next general rate case
- Energy Balancing Account filing to recover \$24 million in excess deferred net power costs from 2018 was filed in March 2019. A hearing was held by the UPSC in February 2020, the final decision is pending

Wyoming (authorized ROE 9.5%)

- Last general rate case filed in 2015. Rocky Mountain Power made a customer pledge in 2017 to not increase base rates prior to 2021. A rate case was filed March 2, 2020, requesting an overall rate increase of \$7 million, or 1.1%, with a January 1, 2021, rate effective date
 - Beginning July 1, 2018, Rocky Mountain Power implemented a \$23 million rate credit to customers to pass back 2017 Tax Reform savings, with a portion of the savings deferred to offset other costs. In November 2019, Rocky Mountain Power filed and the Wyoming Public Service Commission approved a settlement agreement which provides an additional rate reduction of \$9 million effective December 1, 2019 through the end of calendar year 2020
- A compliance filing to the WPSC regarding bonus tax depreciation resulting in a \$2 million rate reduction for the period June 15, 2019 through June 14, 2020

Rocky Mountain Power Regulatory Update

Wyoming Cont.

- In April 2019, PacifiCorp filed its annual Energy Cost Adjustment Mechanism and Renewable Energy Credit and Sulfur Dioxide Revenue Adjustment Mechanism application with the WPSC. The filing requested approval to recover from customers \$7 million in deferred net power costs for the period January 1, 2018, through December 31, 2018. The rate change went into effect on an interim basis June 15, 2019, and was approved by the WPSC in November 2019. PacifiCorp offset this increase with other rate credits that went into effect June 15, 2019

Idaho (authorized ROE 9.9%)

- Last general rate case filed in 2011. A rate case is anticipated to be filed in June 2020, with a requested rate effective date of January 1, 2021
 - In May 2018, the Idaho Public Utilities Commission approved a rate reduction of \$6 million, effective June 1, 2018 through May 31, 2019, to pass back a portion of the current tax benefits associated with 2017 Tax Reform. In May 2019, the IPUC approved an all-party settlement resolving the treatment of the remaining tax savings increasing the rate reduction for current tax savings from \$6 million to \$8 million per year, effective June 1, 2019, with an additional \$3 million related to amortization of excess deferred income taxes being applied as an offset to the 2019 ECAM
- In March 2019, PacifiCorp filed an ECAM application with the IPUC requesting recovery of \$15 million for deferred costs in 2018. The deferral included recovery of the difference in actual net power costs to the base level in rates, an adder for recovery of the Lake Side 2 resource, recovery of Deer Creek Mine investment and changes in Production Tax Credits and Renewable Energy Credits. In May 2019, the IPUC approved recovery of the \$15 million deferral, effective June 1, 2019, to be offset by the \$3 million related to amortization of excess deferred income taxes stemming from the all-party settlement related to 2017 Tax Reform

Solar Opportunities

- Utah Senate Bill 115 allowed for the creation of a renewable energy tariff, under which PacifiCorp can acquire renewable energy on behalf of eligible customers
- Utah House Bill 261 enables PacifiCorp to own solar generating facilities without requirements to normalize the investment tax credit. Resources must be competitively procured resulting in market-based returns and not regulated ROE. Resource must be used for Utah



	Customer Contracts 2020	Customer Contracts 2021	Customer Contracts 2022	Customer Contracts 2023	2019 IRP Proposed Solar 2021-2029	2019 IRP Proposed Solar 2030-2038
Utah SB 115 Solar (Customer Schedule 34)	122 MW		235 MW	200 MW		
Utah SB 115 Solar (Cities and Customers Schedule 34)			80 MW			
Utah SB 12 Solar (Schedule 32)			40 MW			
Proposed IRP Customer Preference Utah Solar (Paired with Battery with Capacity at 25% of Solar)					159 MW (2021) 64 MW (2022) 3 MW (2023) 331 MW (2024)	
Proposed IRP Utah Solar (Paired with Battery with Capacity at 25% of Solar)					573 MW (2024)	500 MW (2030) 909 MW (2037)
Proposed IRP Wyoming Solar (Paired with Battery with Capacity at 25% of Solar)					354 MW (2024) 359 MW (2029)	702 MW (2038)

Note: Capacity additions are incremental to each calendar year

Rocky Mountain Power Customer Solutions

Renewable Energy Tariffs

- Renewable Energy Purchases for Qualified Customers ≥ 5 MW
 - Sleeved PPAs with requirement to not shift costs to other customers
- Subscriber Solar Program (< 5 MW)
 - 20 MW solar resource went into operation in 2017, and is fully subscribed by customers in 200 kW blocks; both residential and commercial
- 100% Renewables with Cities
 - Working cooperatively with Utah cities on state legislation, *Community Renewable Energy Act - Utah House Bill 411*, enabling cities to achieve their community goals to be 100% renewable by 2032
 - Rates approved for the program may not result in any shift of costs or benefits to nonparticipating customers. Approximately 29 communities in Utah, including Salt Lake City, signed the resolution

Electric Vehicle Charging

- Facilitated the installation of 62 DC Fast Chargers and 1,036 Level 2 chargers

Storage

- Deployed a smart grid solution in rural Utah, a 650-kW solar array coupled with a 5 MWh battery to provide voltage support and service during peak loading in the area
- 2019 Utility Dive Innovative Project of the Year
 - 660 unit all-electric building with onsite solar of 5 MW and batteries 5.2 MWh
 - Partnered with local developer where batteries are managed by PacifiCorp for grid stability and energy balance market participation



Wyoming-Utah Legislative Changes

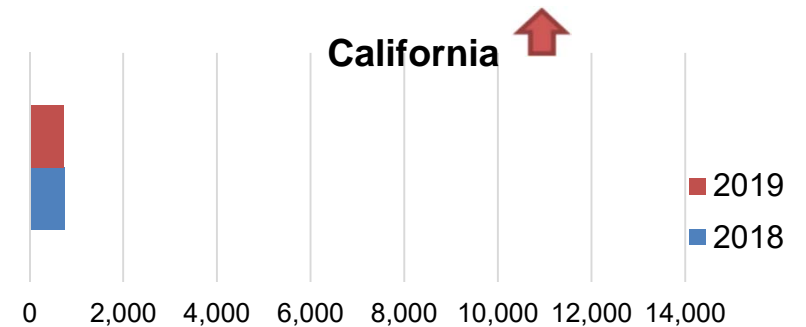
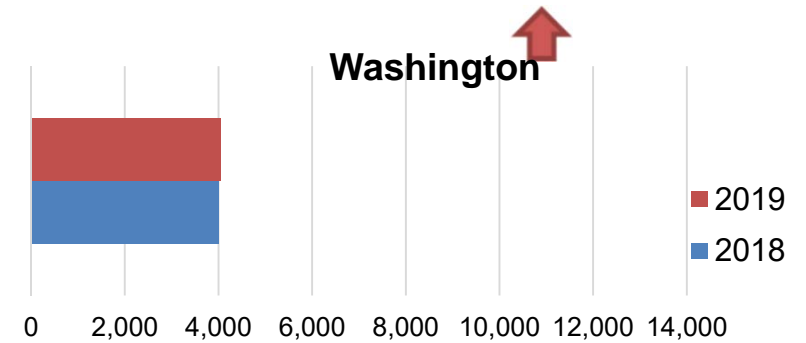
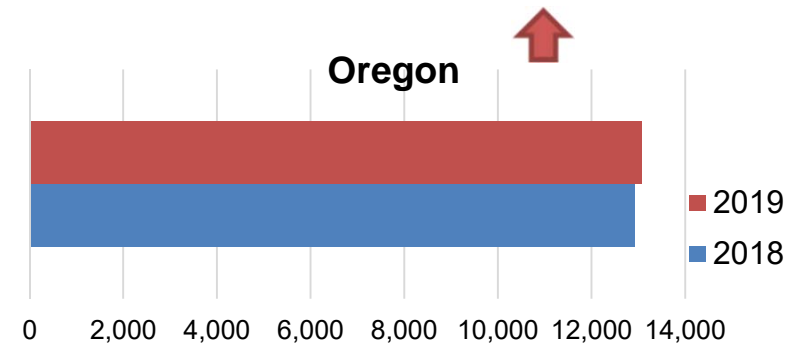
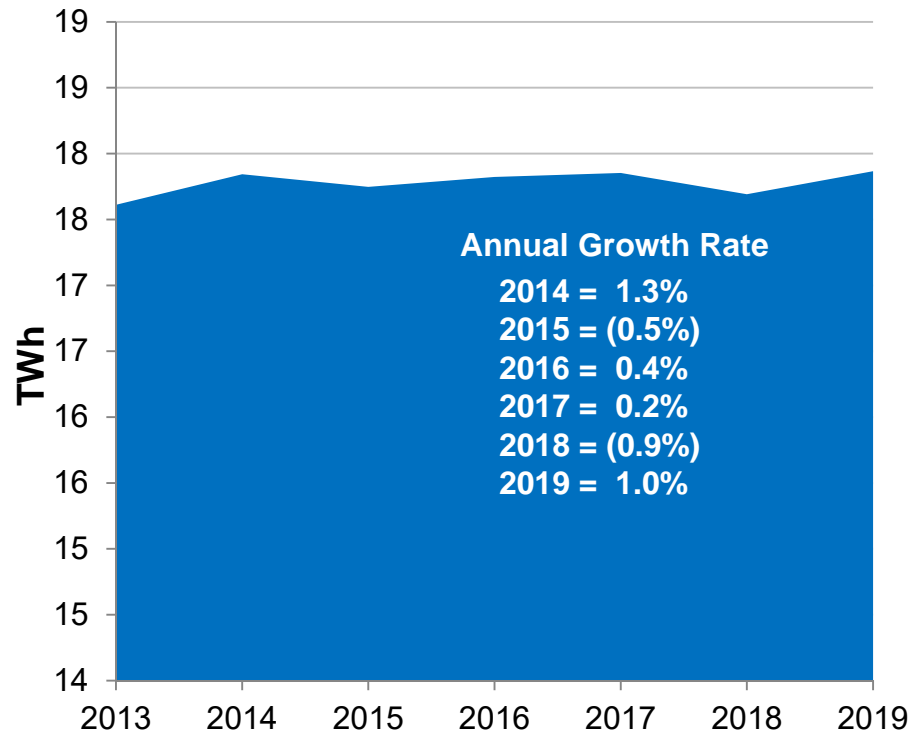
- **Wyoming House Bill 200, Reliable and Dispatchable Low-Carbon Energy Standards**
 - Under this bill, the WPSC is required to put in place a standard specifying a percentage of PacifiCorp's electricity to be generated from coal-fueled generation utilizing carbon capture technology
 - The bill has passed both the House of Representatives and Senate and now moves to the governor for approval
- **Wyoming Senate File 21, Coal Fired Electric Generation Facilities**
 - Upon sale of a retiring coal plant, the bill would enable the purchaser to sell the output to a Rocky Mountain Power customer(s) with load greater than 1 MW. The bill provides protections against cost-shifting to customers in other states
 - The bill has passed both the House of Representatives and Senate and now moves to the governor for approval
- **Utah House Bill 66, Wildland Fire Planning and Cost Recovery**
 - This bill requires the company to prepare a wildland fire protection plan to be approved by the UPSC. All investments, including the cost of capital, made to implement an approved plan are recoverable in rates. Some liability protections instituted, so long as the company is in compliance with its approved plan
 - The bill has passed both the House of Representatives and Senate and now moves to the governor for approval
- **Utah House Bill 396, Electric Transportation Funding Amendments**
 - This legislation would direct the UPSC to enable PacifiCorp to build and own up to \$50 million in electric vehicle infrastructure. This bill also prohibits a third party from generating electricity onsite and selling that electricity directly to Rocky Mountain Power customers through electric vehicle charging infrastructure
 - The bill has passed the House of Representatives and Senate and now moves to the governor for approval



Pacific Power

Pacific Power Retail Sales

**Pacific Power
Retail Sales
(weather-normalized)**



Pacific Power Regulatory Update

Oregon (authorized ROE 9.8%)

- On February 14, 2020, PacifiCorp filed applications in Oregon requesting a combined overall rate increase of \$22 million or 1.6%, effective January 1, 2021. The requests include a general rate case base revenue increase of approximately \$78 million, a \$25 million rate decrease associated with the amortization of the deferred tax benefits from 2017 Tax Reform, a \$17 million recovery of early closure costs associated with the Cholla Unit 4 coal plant, and a \$49 million rate decrease associated with the annual net power cost update. The last general rate case was filed in 2013

Washington (authorized ROE 9.5%)

- On December 13, 2019, PacifiCorp filed applications in Washington requesting a combined overall rate decrease of \$4 million or 1.1%, effective January 1, 2021. The requests include a general rate case base rate increase of approximately \$3 million, offset by a \$7 million rate decrease associated with the amortization of the deferred tax benefits from 2017 Tax Reform. The last general rate case was filed in 2015

California (authorized ROE 10.0%)

- On February 6, 2020, the California Public Utilities Commission issued the final order for the 2018 general rate case approving an overall rate decrease of \$6 million or 5.7%. The last general rate case was filed in 2009
- In March 2019, PacifiCorp received approval to establish a Fire Risk Mitigation Memorandum Account, effective January 1, 2019, to track a range of fire risk mitigation activities incremental to what is already included in PacifiCorp's rates. The CPUC also granted PacifiCorp the ability to track costs related to complying with the implementation of proactive safety power shut-off, or de-energization events, in the FRMMA
- In July 2019, California's governor signed California Assembly Bill 1054 (AB 1054) into law. AB 1054 is comprehensive legislation addressing wildfire risk in the state of California. The new law authorizes a wildfire fund which would operate as an insurance fund to support the creditworthiness of electrical utilities, if certain utilities participate by making the required contributions, among other things. In August 2019, PacifiCorp notified the CPUC that it will not participate in the wildfire fund

Oregon Clean Electricity and Coal Transition Plan Update

- Senate Bill 1547 was signed into law March 8, 2016
 - Increases renewable portfolio standard to 27% by 2025, 35% by 2030, 45% by 2035, 50% by 2040
 - With PacifiCorp's 2019 IRP, PacifiCorp is well-positioned to meet these targets. The IRP included 4,600 MW of new wind generation, 6,300 MW of new solar generation, 2,800 MW of battery storage and nearly 4,500 MW of coal plant retirements
 - Removes coal from Oregon rates by January 1, 2030
 - Incorporates production tax credits in annual power cost mechanism
 - Establishes community solar program
 - Development and implementation of the program is ongoing; third-party program administrator began accepting community solar project applications on January 21, 2020, with the first projects expected online later this year
 - Authorizes utilities to invest in electric vehicle charging
 - Electric utility transportation electrification proposals were approved in early March 2018 with pilot programs underway; initial Oregon transportation electrification plan filed in February 2020
 - Maintains level playing field for service territory acquisitions by requiring acquirer to meet renewable portfolio standard requirements and pay for any stranded costs

Washington Clean Energy Transformation Act

- Washington Senate Bill 5116 – Clean Energy Transformation Act
 - Signed into law May 7, 2019
 - Key provisions:
 - Coal out of rates by 2025
 - 80% renewable by 2030 with compliance options for remaining 20%
 - 2% cost cap measured over a four-year compliance period; if the cost cap is triggered, the utility is deemed to be in compliance
 - Compliance penalty = \$100/MWh with multiplier depending on type of fossil generation
 - Sets mandate of 100% carbon free electricity sector by 2045
 - PacifiCorp is participating in extensive rule-making activities and serves on a working group to align requirements of the new law with regional electricity markets
 - PacifiCorp has begun discussions with regulators and other Washington investor-owned utilities regarding compliance obligations and implementation

Pacific Power

State Carbon Policy Proposals

- **Oregon Senate Bill 1530 – Oregon Cap & Trade**

Status: Failed. The Oregon Legislative session ended March 8, 2020. Senate Bill 1530 never came up for a vote on the Senate Floor

- **Executive Order 20-04 – Oregon Climate Action**

Status: In response to cap and trade legislation failing, Oregon Gov. Kate Brown issued Executive Order 20-04 on March 10, 2020. The order directs several state agencies to prioritize actions that reduce greenhouse gas emissions in a cost effective manner and sets new greenhouse gas reduction goals by setting targets of a 45% reduction below 1990 levels by 2035, and an 80% reduction by 2050 (*same as the proposed cap and trade bill*). A lengthy rulemaking process at the agencies is anticipated

Key provisions:

- **Doubles the Clean Fuels Program:** To reduce climate pollution from cars and trucks by 20% by 2030, and 25% by 2035, the state will more than double the Clean Fuels Program. The EQC and DEQ are directed to advance methods accelerating the generation and aggregation of clean fuels credits by utilities that can advance the transportation electrification goals set forth in Senate Bill 1044 (2019)
- **Accelerates the transition to clean energy resources in the utility sector:** Directs the Public Utility Commission to help utilities achieve the new emission reduction goals, and directs the PUC to implement the recommendations of the Governor's Council on Wildfire Response. Directs the PUC to establish a public process to address and mitigate differential energy burdens and other inequities of affordability

Solar Opportunities

- Oregon Senate Bill 1547 was voted into law in 2016, establishing a community solar program that allows for utility-owned solar resources to participate in the program
- Pacific Power's Blue Sky Select program enables large customers to acquire renewable energy credits from a specified resource to support their renewable supply goals



Capacity (MW)	Customer Contracts 2020	Customer Contracts 2021	Customer Contracts 2022	Customer Contracts 2023	2019 IRP Proposed Solar 2021-2029	2019 IRP Proposed Solar 2030-2038
Prineville Oregon Solar/Invenergy (PPA, system resource, RECs contracted with Oregon Commercial Customer)	40 MW					
Millican Oregon Solar/Invenergy (PPA, system resource, RECs contracted with Oregon Commercial Customer)	60 MW					
Hunter Utah Solar/DESRI (PPA, system resource, RECs contracted with Oregon Commercial Customer)	100 MW					
Sigurd Utah Solar/DESRI (PPA, system resource, RECs contracted with Oregon Commercial Customer)		80 MW				
Cove Mountain Utah Solar I/FSLR (PPA, system resource, RECs contracted with Oregon Commercial Customer)	58 MW					
Milford Utah Solar I/Longroad (PPA, system resource, RECs contracted with Oregon Commercial Customer)	99 MW					
Proposed IRP Oregon Solar (Paired with Battery with Capacity at 25% of Solar)					500 MW (2024)	475 MW (2033)
Proposed IRP Washington Solar (Paired with Battery with Capacity at 25% of Solar)					395 MW (2024)	419 MW (2036)

Note: Capacity additions are incremental to each calendar year; Sigurd Solar moved to 2021 with force majeure claim

Pacific Power Electric Vehicle Pilot Programs

Electric Transportation Pilot Programs

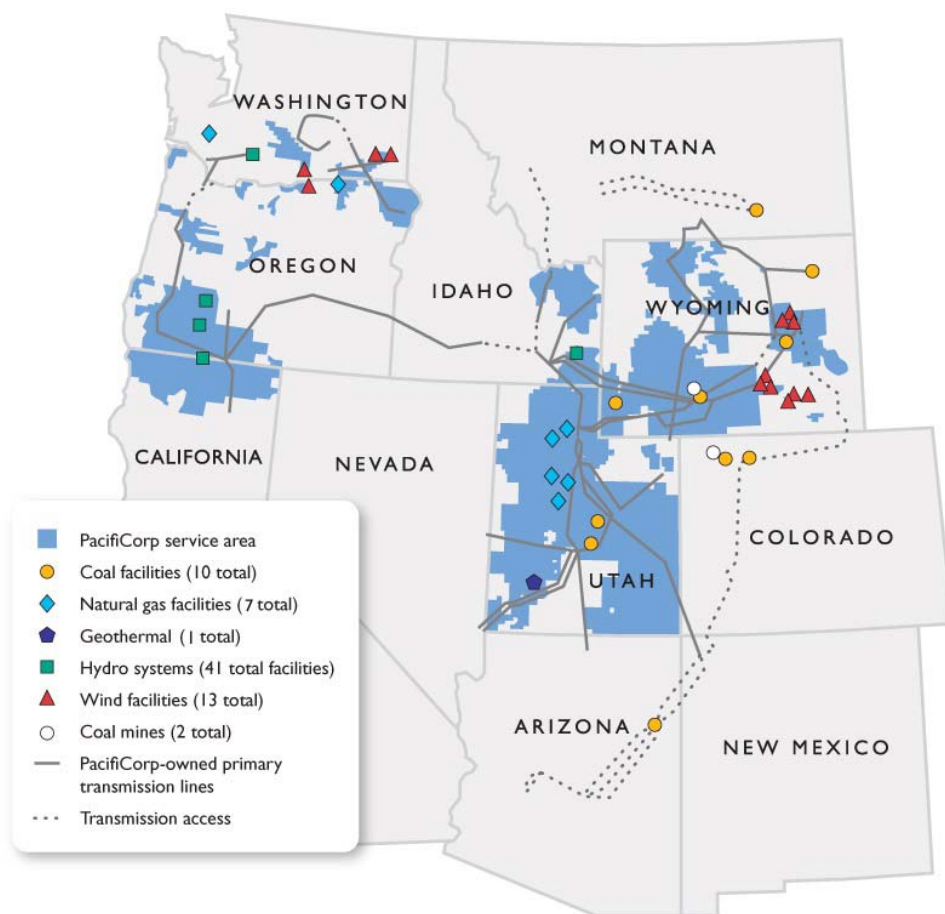
- Pacific Power is implementing pilot programs to increase awareness about electric transportation and to stimulate development of new charging stations in areas underserved by current charging infrastructure
- The three programs focus on:
 1. Education and outreach to customers
 2. Public fast-charging stations (currently Oregon only)
 3. Grants to business customers to install charging infrastructure
- \$6.7 million budgeted for electric transportation pilots across three states
- In addition to its pilot programs, Pacific Power also is implementing electric transportation programs funded through Oregon's Clean Fuels Program





PacifiCorp Appendix

PacifiCorp



- Six-state service territory
 - Utah
 - Oregon
 - Idaho
 - Washington
 - Wyoming
 - California
- 5,200 employees
- 1.9 million retail electricity customers
- 141,400 square miles of service territory
- 16,600 transmission line miles
- 64,600 miles of distribution lines and 900 substations
- 11,822 MW⁽¹⁾ owned capacity by fuel type:

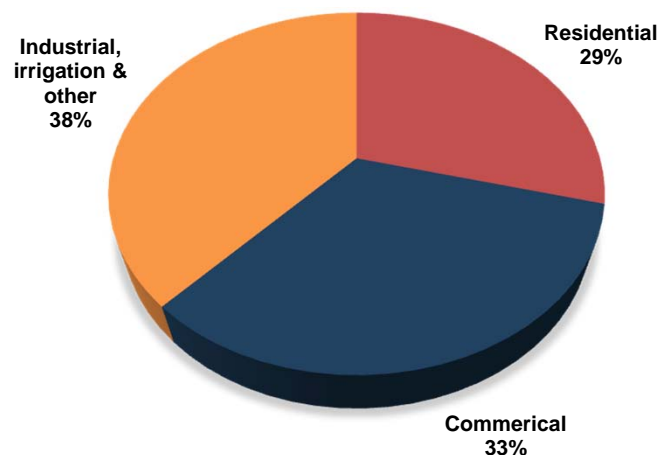
	12/31/19	3/31/06
Wind	19%	0%
Coal	48%	72%
Natural Gas	24%	13%
Hydro and other	9%	15%

(1) Net MW owned in operation and under construction as of December 31, 2019 75

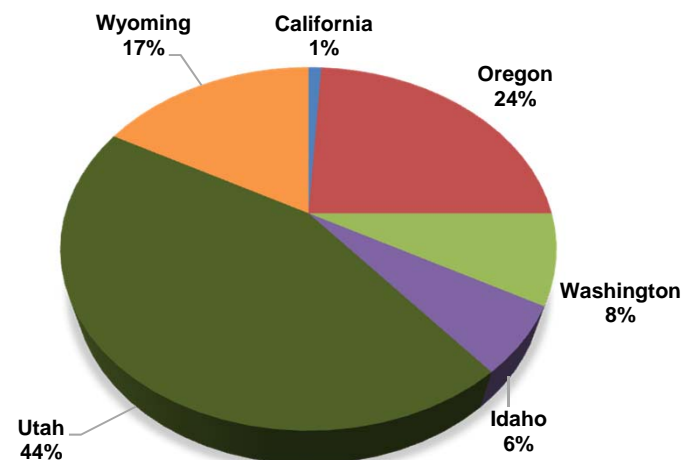
PacifiCorp

2019 Retail Electric Sales

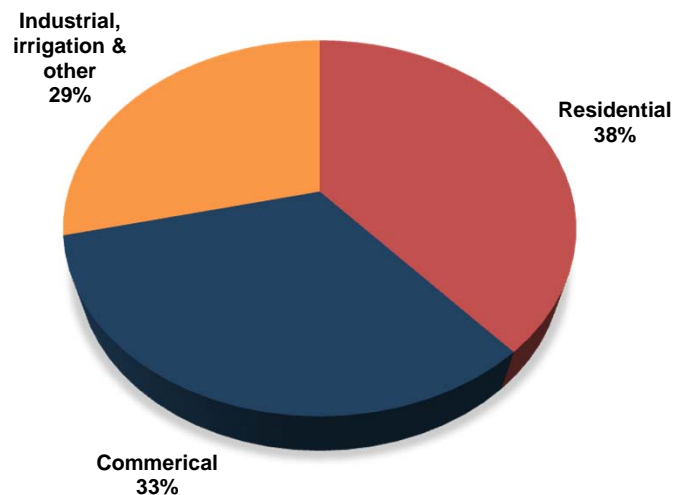
2019 Retail Electric Sales by Class – 55,343 GWh



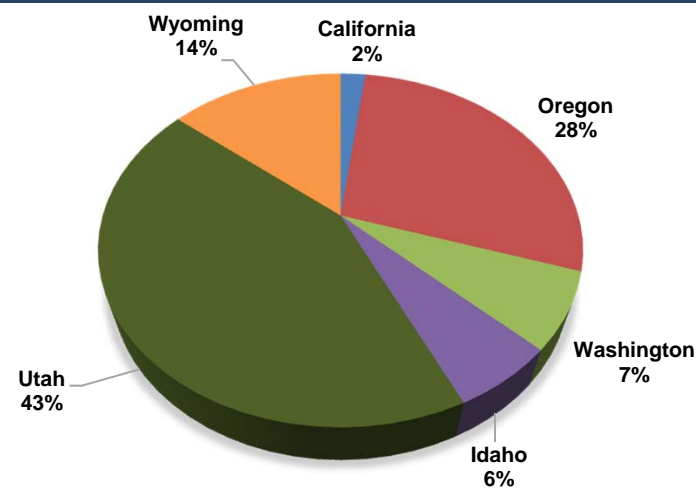
2019 Retail Electric Sales by State – 55,343 GWh



2019 Retail Electric Revenue by Class – \$4.7 billion



2019 Retail Electric Revenue by State \$4.7 billion



PacifiCorp Major Transmission Projects

Over \$6 billion total investment planned; \$1.6 billion placed in-service

- Gateway West
 - BLM record of decision on 8 of 10 segments November 2013
 - BLM record of decision on last two segments April 2018
 - Planned in-service 2023-2024 (earliest)
- Aeolus-to-Jim Bridger/Anticline
 - Segment D2 of Gateway West
 - Planned in-service Q4 2020
- Boardman-to-Hemingway
 - BLM record of decision December 2017
 - Oregon Energy Facility Siting Council site certificate target date June 2021
 - Planned in-service 2026
- Segments In-Service
 - Populus-to-Terminal November 2010
 - Mona-to-Oquirrh May 2013
 - Sigurd-to-Red Butte May 2015
 - Wallula-to-McNary January 2019



This map is for general reference only and reflects current plans. It may not reflect the final routes, construction sequence or exact line configuration.

Advanced Metering Infrastructure Projects

Scope

Pacific Power: \$124 million capital investment

- Oregon
 - 608,000 smart meters and field area network installed
 - Completed December 2019
- California
 - 45,000 smart meters and field area network installed
 - Completed December 2018

Rocky Mountain Power: \$111 million capital investment

- Idaho
 - 80,000 smart meters
 - In-service December 2021
- Utah
 - Implement a hybrid AMI/AMR system in Utah
 - Install 172,000 smart meters
 - Leverage the existing AMR meters (currently at 790,000) to capture interval energy usage
 - In-service December 2021
 - June 2019, PacifiCorp received approval from the Utah Public Service Commission to apply ~\$16.5m of Utah Sustainable Transportation and Energy Program funds towards resiliency management within the AMI project

Benefits

- Provides customers financial benefits over the life of the projects against a status quo alternative
- Customers gain access to near real-time consumption data and information to proactively manage their monthly usage
- Improved outage detection and response
- Enables remote connect/disconnect service
- Improved system monitoring for real-time operations and distribution system planning
- Provides a platform that can be leveraged for future grid modernization
- Enables collection of interval and outage management data leveraging existing Automated Meter Reading Meters in Utah



BHE Wildfire Mitigation Plans

Berkshire Hathaway Energy has developed and is implementing Wildfire Mitigation Plans (WMPs) across its Western utilities

WMP 2019 Overview

- Risk-based approach to identify FIRE High Consequence Area (FHCA)
- FHCAs are determined by population and structure density, fuel loading, accessibility and climatology
- Mitigation plans developed to minimize risk from electrical assets

Key Components

- Enhanced situational awareness through active monitoring of Red Flag warnings, public weather data and installation of local weather stations
- Yearly asset inspection frequency with accelerated correction time
- Implementing increased vegetation clearance standards on distribution circuits of at least a 12-foot pruning cycle, with an objective of maintaining a 4 foot clearance in FHCA
- Asset Hardening
 - Insulated conductor
 - Strategic pole replacement to increase loading capabilities and fire resiliency
 - Installation of additional Supervisory Control & Data Acquisition controls
 - Improved construction standards for new and retrofit applications to reduce potential ignition sources
- Enhanced Operational Practices
 - Modified reclosing procedures during fire season
 - Proactive de-energization in FHCA
 - Line inspections before re-energization
 - De-energization for all areas – real time potential damage or fire risk is assessed by emergency response or emergency action center
- Improved response through community outreach and coordination

BHE Wildfire Mitigation Plans

Western States Wildfire Mitigation

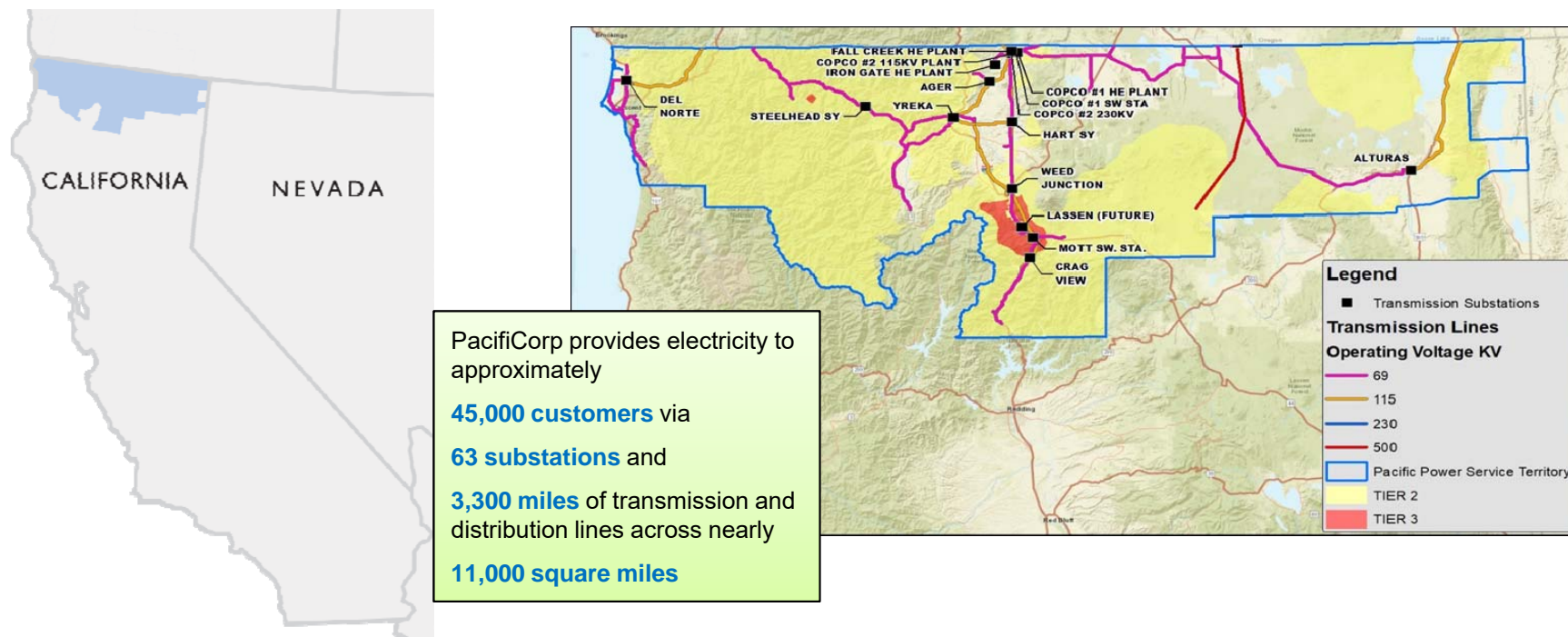
- Under California Senate Bill 901, electric utilities are required to develop annual wildfire mitigation plans to prevent, combat and respond to wildfires within their service territories. PacifiCorp filed its updated plan with the CPUC on February 7, 2020

Legislation – The Western Governors Association and key legislators have advanced legislation clearly signaling the priority they are placing on wildfire mitigation

- In California, Gov. Newsom signed into law Assembly Bill 1054 which outlined a broad set of requirements for the state focused on programs designed to address utility-caused wildfires. These reforms apply to both investor owned utilities and publicly owned utilities, including establishing a wildfire safety division
- In Oregon, legislators have proposed utility wildfire mitigation requirements in Senate Bill 1536 and House bill 4066, which the company supports. Both bills reflect recommendations from the Governor's Wildfire Response Council
- In Washington, public utilities commission staff members are beginning to look at the impacts of wildfires on electric reliability; legislation proposed appears to focus on taxing authority for suppression efforts
- In Utah, the legislation provides for the submission of a wildland fire mitigation plan to the Public Service Commission, with provisions for cost recovery of expenditures made in conjunction with an approved plan; it also includes provisions related to liability for damages due to a wildland fire. The bill passed both the House and Senate and now moves to the Governor for approval
- In Nevada, the Public Utilities Commission proposed final regulations to the Legislative Counsel Bureau on January 30, 2020, to demonstrate compliance with Senate Bill 329. NV Energy's plan was filed with the Commission on February 28, 2020

California Service Territory and Wildfire Plan Regulatory Review

California Senate Bill 901 requires electric utilities to develop annual wildfire mitigation plans to prevent, combat and respond to wildfires within their service territories



Regulatory Steps

Date

Updated wildfire mitigation plans filed	February 7, 2020
Public comment deadline	April 7, 2020
Concurrent opening & reply briefs/comments	April 16, 2020
California Public Utilities Wildfire Safety Division issues draft recommendation on wildfire mitigation plans	May 7, 2020
CPUC Commissioners' first opportunity to vote on WSD Draft Resolution	June 11, 2020

Rocky Mountain Power Utah Private Generation Update

- Net metering was closed to new applications November 15, 2017, and a new Transition Program was initiated December 1, 2017, for a limited number of installations
- Net metering interconnections grew in 2019 as interconnections were completed for applications received prior to program cut-off. Since the Transition Program was initiated, approximately 108 MW of a total eligible 240 MW of new customer private generation has either interconnected or is currently in the application process

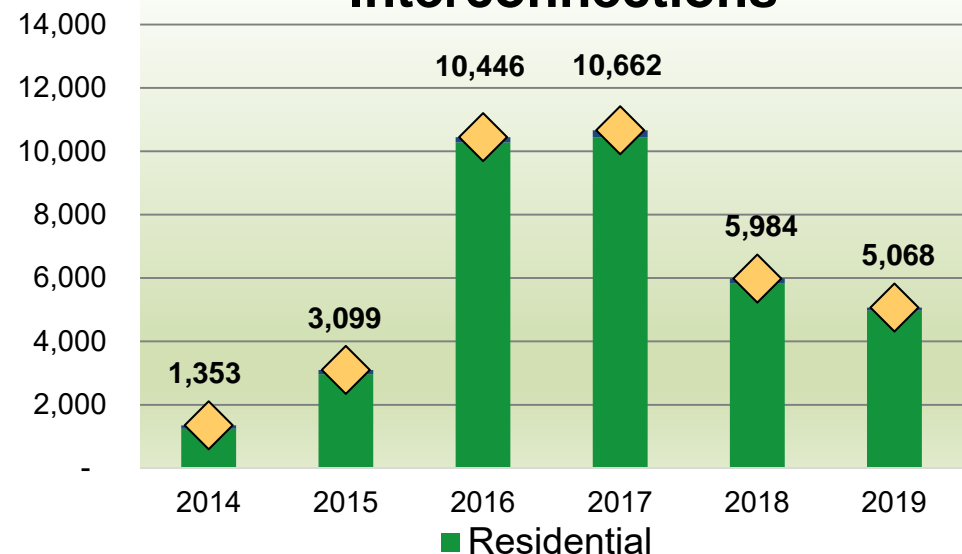
Customer Class (as of January 31, 2020)	Transition Cap	Cumulative Applied for (Pending)	Cumulative Interconnected (Completed)
Residential and Small Business	170 MW	32.98 MW	57.89 MW
Large Customers	70 MW	9.49 MW	7.59 MW

- Transition program applications are significantly up compared to prior year transition program applications

Applications Received	Totals
2018 (Transition Program)	4,294
2019 (Transition Program)	6,487

- On February 3, 2020, Rocky Mountain Power filed to establish the export credit for the post-Transition Program, to be implemented January 1, 2021. The filing proposes an average export credit rate of 1.5 cents/kWh. A hearing in the proceeding is scheduled for October 2020

Utah Net Metering Interconnections





Doug Cannon

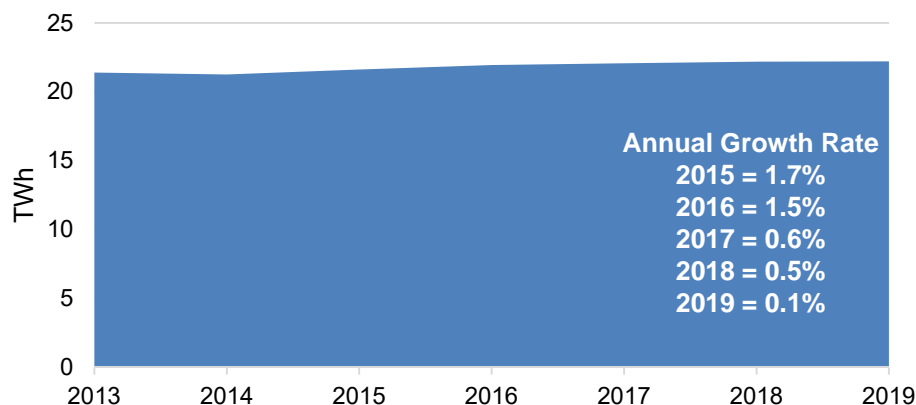
President and CEO

NV Energy

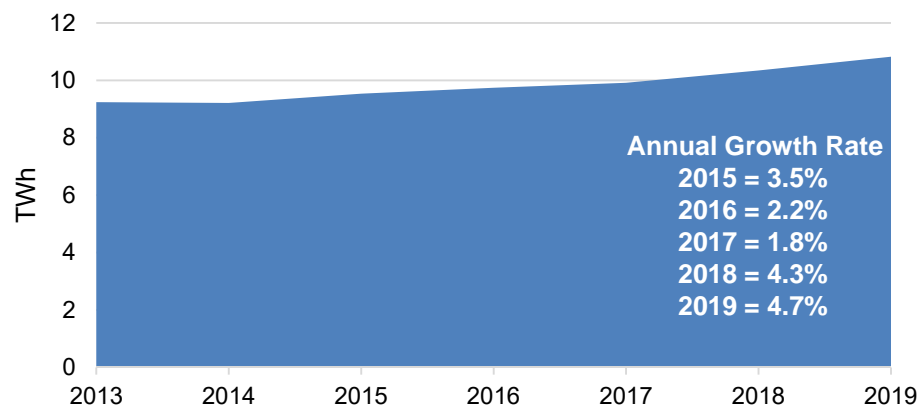
NV Energy

Electric Retail Sales

Nevada Power Electric Retail Sales Weather Normalized



Sierra Pacific Electric Retail Sales Weather Normalized



System Load Comparison 2019 vs. 2018

Nevada Power

- Residential down 0.1% with customer growth offset by energy efficiency and new private generation
- Commercial down 0.1% with energy efficiency offsetting customer growth
- Industrial (including distribution only service) up 0.7% due largely to new construction, specifically for data center, large hotels and Raiders Stadium coupled with retail and convention space increases, partially offset by energy efficiency programs

Sierra Pacific

- Residential up 2.0% primarily due to customer growth
- Commercial down 0.5% primarily due to increases in energy efficiency
- Industrial up 10.0% primarily led by manufacturing sector

NV Energy Business Update

- **Successful 2019 Nevada Legislative Session**

- NV Energy utilized a broad-based stakeholder coalition to drive positive legislative outcomes
- Five key pieces of legislation passed that advance NV Energy's business (i.e., natural disaster mitigation, 704B modifications, renewable portfolio standard, alternative ratemaking legislation and community solar)

- **Positive 704B Developments**

- NV Energy executed on an aggressive customer retention plan that has resulted in no current pending 704B applications
- 704B applications can now only be filed in January and impact fees were set to protect all remaining bundled retail customers

- **Continued Advancement Towards Renewable Objectives**

- In December 2019, the Public Utilities Commission of Nevada issued an order approving power purchase agreements for 1,190 MW of solar photovoltaic generation and 590 MW of co-located battery energy storage systems. This is in addition to power purchase agreements for 1,001 MW of solar photovoltaic generation and 100 MW of battery energy storage approved by the commission in February 2019
- Nevada Power's last coal-fueled Navajo Generating Station, 11% ownership for 255 MW, retired in November 2019
- Sierra Pacific's sole coal-fueled North Valmy Generating Station, 50% ownership for 261 MW, is expected to retire in 2025
- Nevada's renewable portfolio standard increased from 25% by 2025 to 50% by 2030. NV Energy is on track to achieve compliance

- **Balanced Regulatory Outcomes**

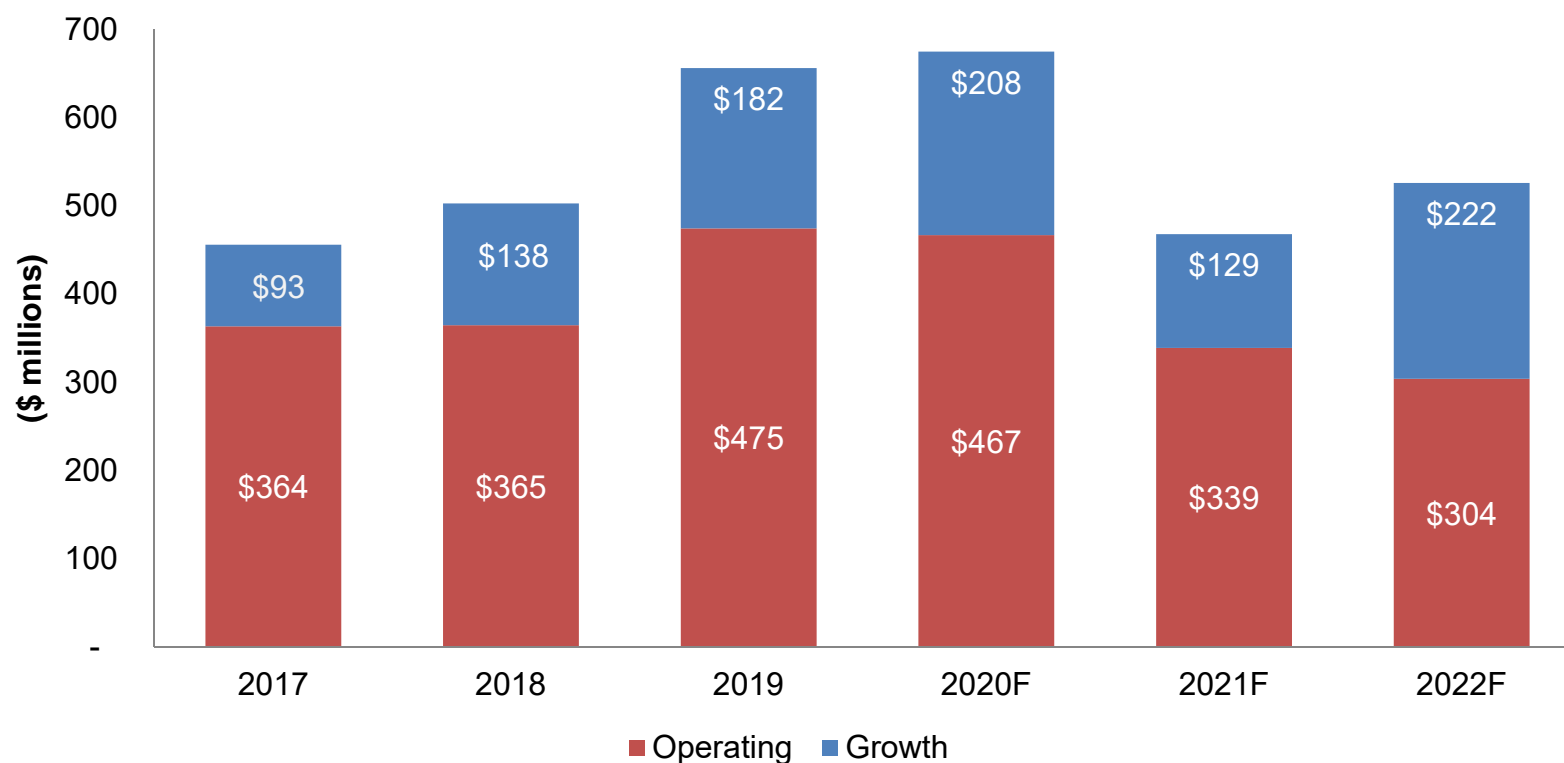
- Sierra Pacific reduced revenue requirement by \$7.7m
- Deferred energy accounting adjustment was approved as filed in 2019, and 2020 filings were made in February
- Nevada Power will file a statutorily required general rate review in June 2020 and will request a \$120m revenue requirement reduction

NV Energy

Capital Investment Plan

- Capital investment for 2020-2022 includes turbine upgrades of \$166 million and non-regulated solar construction of \$77 million

(\$ millions) 2020-2022	Current Plan	Prior Plan
Operating	\$ 1,110	\$ 1,110
Growth	\$ 559	\$ 559
Total	\$ 1,669	\$ 1,669



NV Energy

Natural Disaster Risk Mitigation

- **2019 Legislation**

- In compliance with Senate Bill 329, the Public Utilities Commission of Nevada finalized the regulations for natural disaster mitigation plan in January 2020. The natural disaster mitigation plan was submitted February 28, 2020

- **Natural disaster risk**

- Approximately 4% of NV Energy's service territory of circuit miles is in the Tier 3 (highest risk) and Tier 2 (high risk) wildfire risk areas. If Tier 1 (moderate risk) areas are included, approximately 12% of NV Energy's service territory is in a fire risk area
- The natural disaster mitigation plan also addresses high wind and thunderstorm monsoonal risk experienced in southern Nevada, as well as winter storm risk in northern Nevada

- **Actions taken**

- Vegetation management is being expedited to achieve a four-year vegetation management cycle
- Wildfire safety inspections have been completed in Tier 3 areas and are underway in Tier 2 and urban interface Tier 1 areas
- University of Nevada, Reno is deploying wildfire detection cameras in 2020
- Weather stations are being installed in Tier 3 and 2 areas to improve wildfire forecasting capability
- Public safety outage management procedures have been implemented. There were no events in 2019, and we will actively monitor for fire conditions that could trigger a public safety outage in 2020

- **Next Steps**

- Seek both natural disaster mitigation plan approval and regulatory cost recovery of plan expenses
- Continue to execute in seven key areas of risk mitigation – risk-based approach and analytics, operational practices, inspections and corrections, system hardening, vegetation management, situational awareness and public safety outage management

NV Energy

Nevada Revised Statute 704B

- **704B Status**
 - Since 2016, five customers transitioned to distribution-only service, with an estimated peak load of 400 MW. Two existing and four new customers (not currently on the system) received 704B approval but have not yet become distribution-only service customers
 - There are no pending applications before the Public Utilities Commission of Nevada for customers pursuing the use of an alternative energy provider
- **Summary of 2019 704B Reform Legislation**
 - The Public Utilities Commission of Nevada engaged in a rulemaking process to implement Senate Bill 547, which modifies requirements for a party seeking to utilize an alternative energy provider under Nevada Revised Statute 704B
 - Regulations address customer eligibility and fees associated with utilizing an alternative energy provider, as well as licensing requirements to be an alternative energy provider
- **Customer Specific Solutions**
 - In January 2020, a 25-year energy supply agreement between NV Energy and the Las Vegas Raiders was approved under the market price energy tariff. Under the agreement, the stadium and Raiders team facilities will be served with certified renewable energy
 - In February 2020, a nine-year energy supply agreement between NV Energy and Google for a data center facility in Henderson, Nevada, was approved. The energy supply agreement will consist of up to 350 MW of solar generation and 280 MW of energy storage
- **Commitment to Competitive Rates**
 - Nevada Power and Sierra Pacific are reducing customer rates and are developing customized pricing and service options to address individual customer needs

NV Energy

Upcoming Events

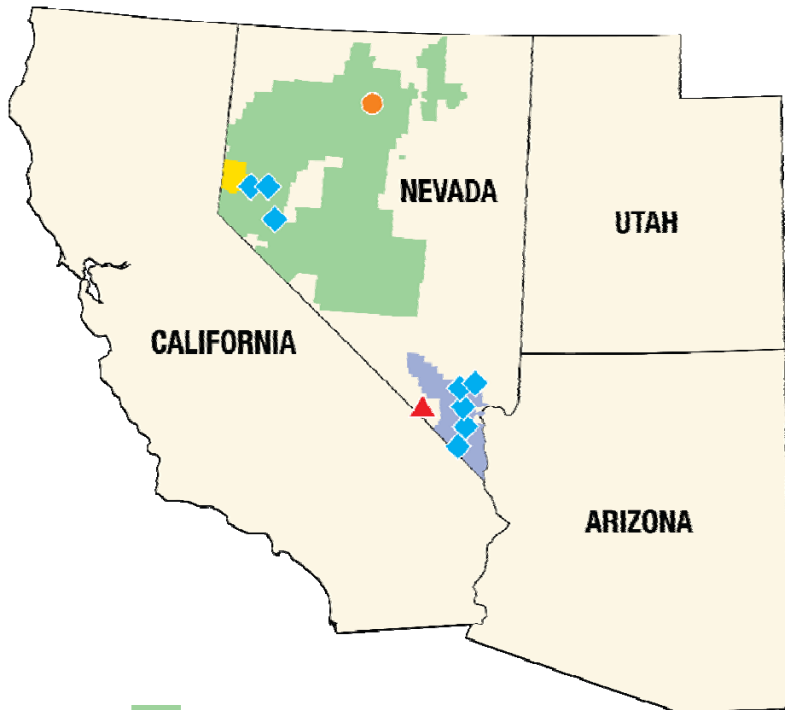
- **Nevada Power's General Rate Case Filing**

- In June 2020, Nevada Power will make its triennial general rate case filing, seeking a reduction in customer rates equal to at least \$120 million with an effective date of January 1, 2021
- The reduction is primarily driven by lower interest expense, lower tax expense and a return to customers of prior year earnings sharing
- The general rate review will include costs associated with the Reid Gardner generation station decommissioning, Navajo retirement and other rate base additions



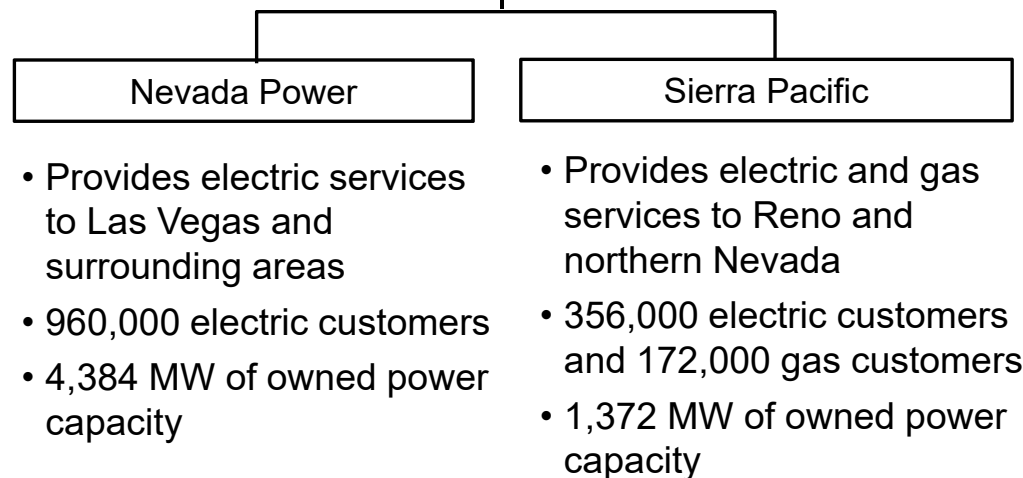
NV Energy Appendix

NV Energy Today



- **NVE SPPC Electric Service Territory**
- **NVE NPC Electric Service Territory**
- **NV Energy Gas Service Territory**
- **Coal Plants**
- ◆ **Natural Gas Plants**
- ▲ **Energy Recovery Plant**

- Headquartered in Las Vegas, Nevada, with territory throughout Nevada
- 2,460 employees
- 1.3 million electric and 172,000 gas customers
- Service to 90% of Nevada's population, along with tourist population in excess of 56 million
- 5,756 MW⁽¹⁾ of owned power generation (95% natural gas, 5% coal/renewable/other)

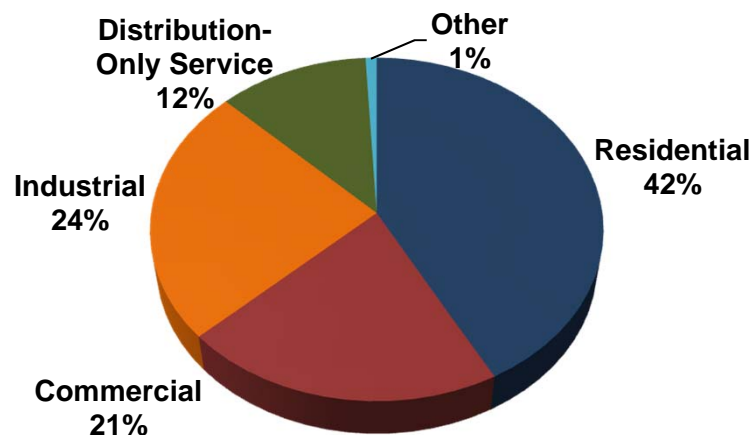


(1) Net MW owned in operation as of December 31, 2019

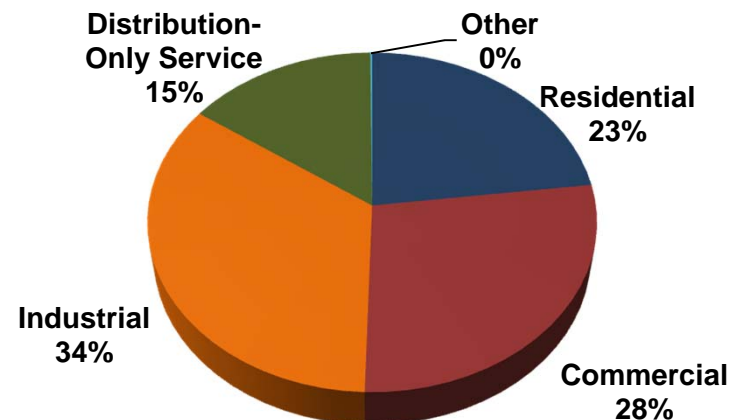
NV Energy

2019 Retail Electric Sales and Revenue by Class

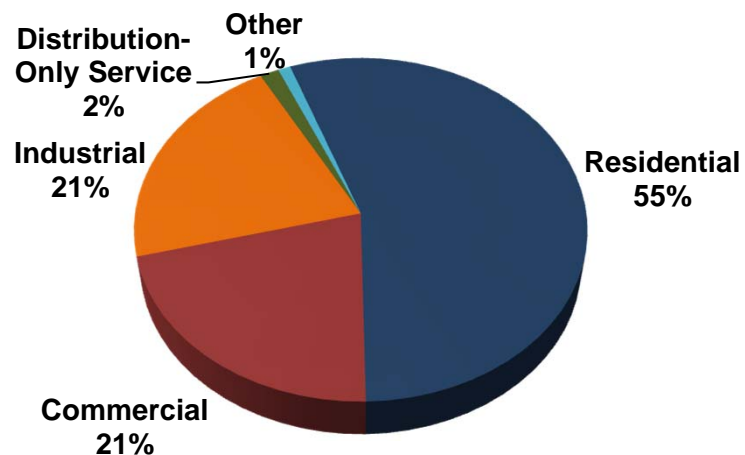
Nevada Power
2019 Retail Electric Sales – 22,118 GWh



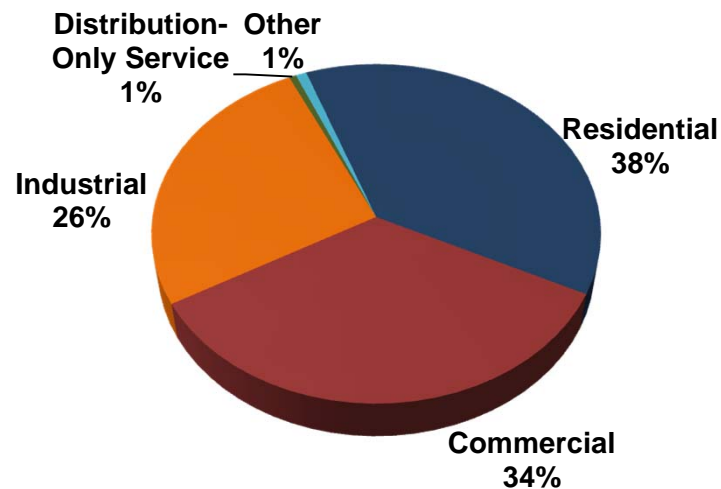
Sierra Pacific Power
2019 Retail Electric Sales – 10,825 GWh



Nevada Power
2019 Retail Electric Revenue – \$2.1 billion



Sierra Pacific Power
2019 Retail Electric Revenue – \$709 million



Reduction of Coal-Fueled Generating Stations

NV Energy continues to move toward the elimination of coal-fueled electric generating plants by 2025

- Reid Gardner Generating Station, 557 MW
 - Decommissioned in 2017; site remediation activities continue
- Navajo Generating Station, 2,250 MW coal plant (NVE's ownership is 255 MW)
 - Retired in 2019, with decommissioning underway
- North Valmy Generating Station, 522 MW coal plant (NVE's ownership is 261 MW)
 - Two units, co-owned equally with Idaho Power Company
 - The Public Utilities Commission of Nevada approved the 2018 Integrated Resource Plan with a conditional retirement of Unit 1 by December 31, 2021, and Unit 2 by December 31, 2025
 - Retirement of Unit 1 is conditional on maintaining reliable system operations for NV Energy's customers through a stable transmission grid

Private Generation

- Excess energy compensation is tiered in four 80 MW tranches at 95%, 88%, 81% and 75% of authorized rate for that customer class
 - Tier 1 at 95% credit reached 80 MW reservation capacity August 3, 2018
 - Tier 2 at 88% reached 80 MW reservation capacity June 21, 2019
 - Tier 3 at 81% is open for applications for 80 MW
 - Tier 4 at 75% forecast to open April 2020
- Private generation projected to reduce NV Energy load 218 GWh by 2021 (approximately 0.8% of 2019 total retail load for Nevada Power and Sierra Pacific Power combined)
 - Forecast variables include changes to rate of solar installations due to declining excess energy credit, reduced Federal Investment Tax Credit, changes in solar adoption of new construction market and reduced solar system costs, and continued favorable net metering rates

Private Generation Applications

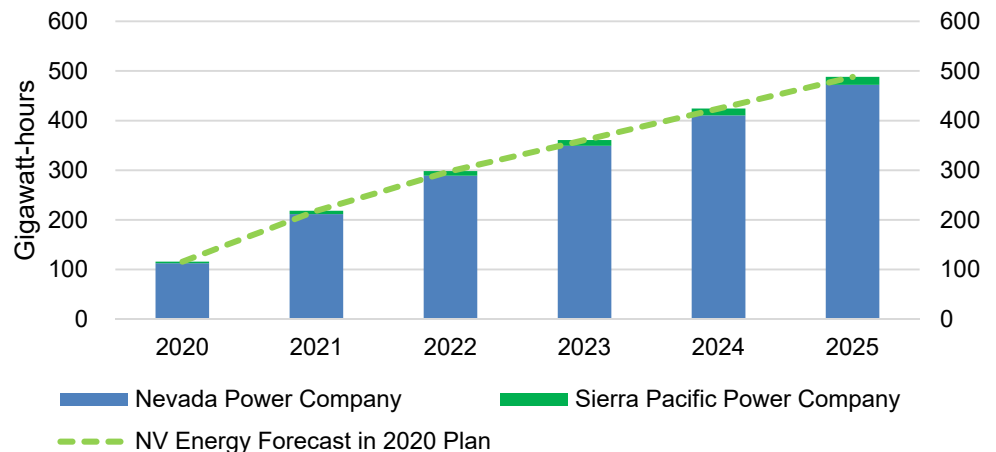
Last Updated: February 24, 2020

Tier 3		
Applied Capacity	Installed Capacity	Total Capacity
22.237 MW*	33.536 MW*	55.773 MW*
Tier 2		
Applied Capacity	Installed Capacity	Total Capacity
6.185 MW*	73.817 MW*	80.002 MW*
Tier 1		
Applied Capacity	Installed Capacity	Total Capacity
0.000 MW*	80.002 MW*	80.002 MW*

Source: www.puc.nv.gov, updated February 2020

*The numbers shown will fluctuate as customer-generator applications are submitted, withdrawn or expire.

Private Generation (Residential)



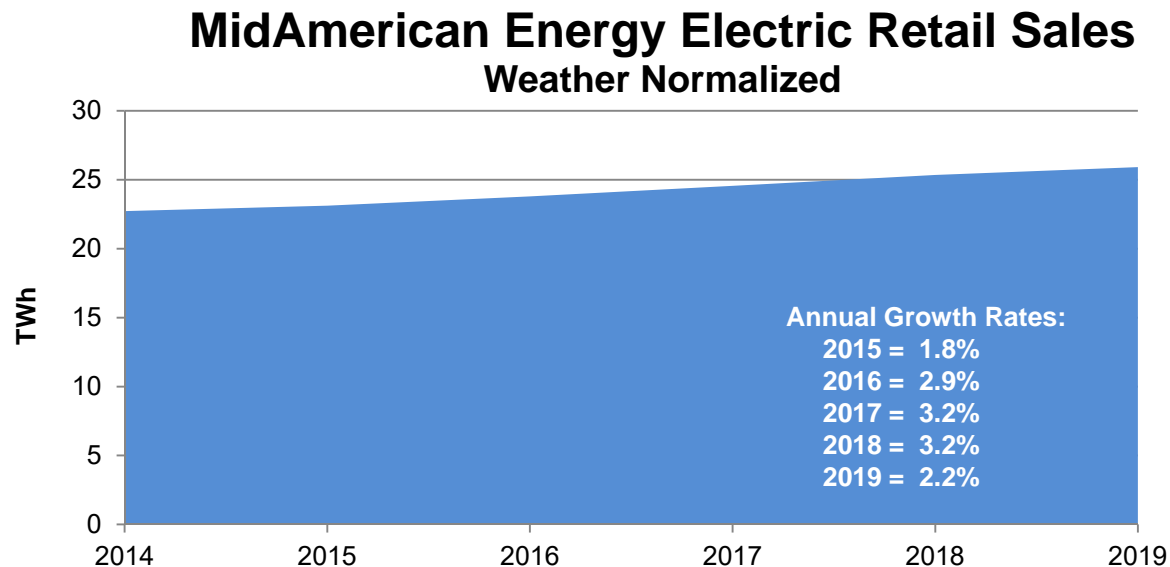


Adam Wright

President and CEO
MidAmerican Energy

MidAmerican Energy Electric Retail Sales

- Economic and Load Data
 - Service territory has experienced strong electric load growth
 - Data centers have contributed to our growth and are attracted to our service territory given our relatively low, predictable electric rates, high reliability of service and MidAmerican Energy's wind portfolio



MidAmerican Energy Wind Development Update

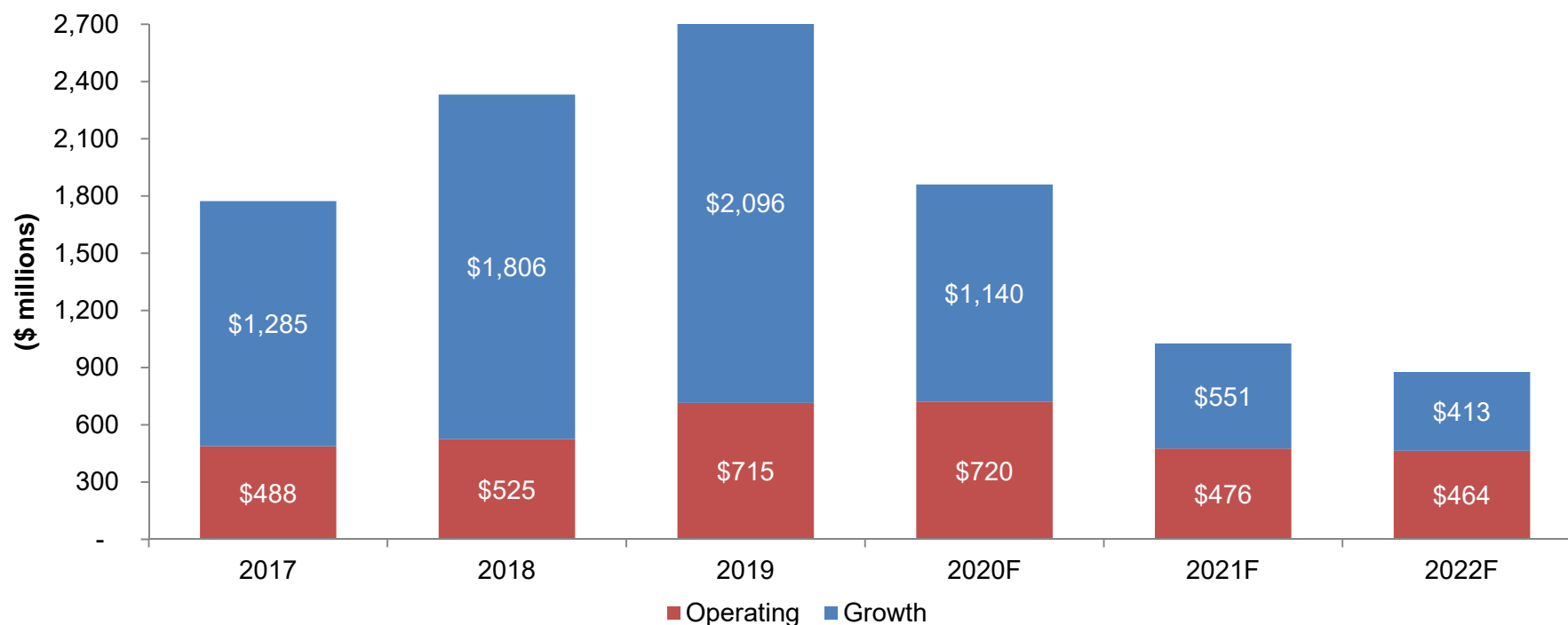
Project	Approval Date	Estimated Cost	Capacity	Planned Completion	Additional Notes
Wind XI	2016	\$3.2 billion	2,000 MW	Completed in January 2020	Qualifies for 100% of eligible PTC rate; PTCs are retained by the company
Wind XII	2018	\$922 million	591 MW	Q4 2020	
Wind XII Expansion	Proceeding without pre-authorization sought from the IUB	\$283 million	207 MW	Q4 2020	Qualifies for 100% of eligible PTC rate; PTCs benefit customers immediately through energy adjustment clause
Pocahontas Prairie		\$21 million	80 MW	Expected to close March 2020	Not eligible for PTCs (seller utilized ITC)
Contrail		\$222 million	112 MW	Q4 2020	Qualifies for 100% of eligible PTC rate; PTCs benefit customers immediately through energy adjustment clause

- Wind repowering
 - PTCs reinstated for another 10-year period, some at reduced rates
 - Improved capacity factors from longer blades, more efficient equipment resulting in greater generation
 - GE fleet
 - \$1,153 million incurred through 2019, including AFUDC
 - 706 turbines comprising 1,059 original MW repowered through 2019
 - 100% of PTC rate expected for all projects
 - Siemens fleet
 - \$248 million incurred through 2019, including AFUDC
 - 334 turbines comprising 768 original MW to be repowered in 2019-2021 at 80% of full PTC rate
 - 176 turbines comprising 407 original MW to be repowered in 2022 at 60% of full PTC rate

MidAmerican Energy Capital Investment Plan

- Planned spending for the repowered generating facilities totals approximately \$900 million from 2020-2022 and planned spending for new wind development totals approximately \$800 million from 2020-2022
- Other renewable generation opportunities continue to be evaluated, including additional solar facilities

(\$ millions) 2020-2022	Current Plan	Prior Plan
Operating	\$ 1,660	\$ 1,660
Growth	2,104	2,104
Total	\$ 3,764	\$ 3,764



Build Renewable Energy

MidAmerican Energy's Iowa Wind Generation⁽¹⁾

	Green Advantage Percent ⁽²⁾	MW Installed Capacity	Cumulative Investment (\$ billions)
2013 Actual	6%	2,329	\$3.8
2014 Actual	28%	2,832	\$4.6
2015 Actual	38%	3,448	\$6.0
2016 Actual	47%	4,048	\$7.0
2017 Actual	51%	4,388	\$8.3
2018 Actual	51%	5,215	\$10.0
2019 Actual ⁽³⁾	61%	6,262	\$11.9
2020 Plan	93%	7,082	\$12.9
2021 Plan	101%	7,082	\$13.3
2022 Plan	102%	7,082	\$13.7

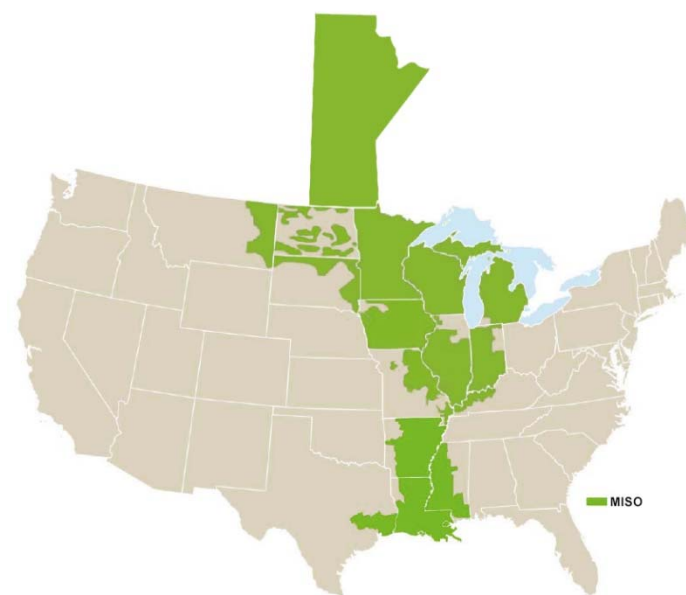
(1) Includes investment in repowered facilities

(2) Represents the portion of Iowa retail sales supplied by renewable energy as certified by the Iowa Utilities Board

(3) Green Advantage Percent for 2019 to be filed with Iowa Utilities Board by early April, with IUB verification to follow

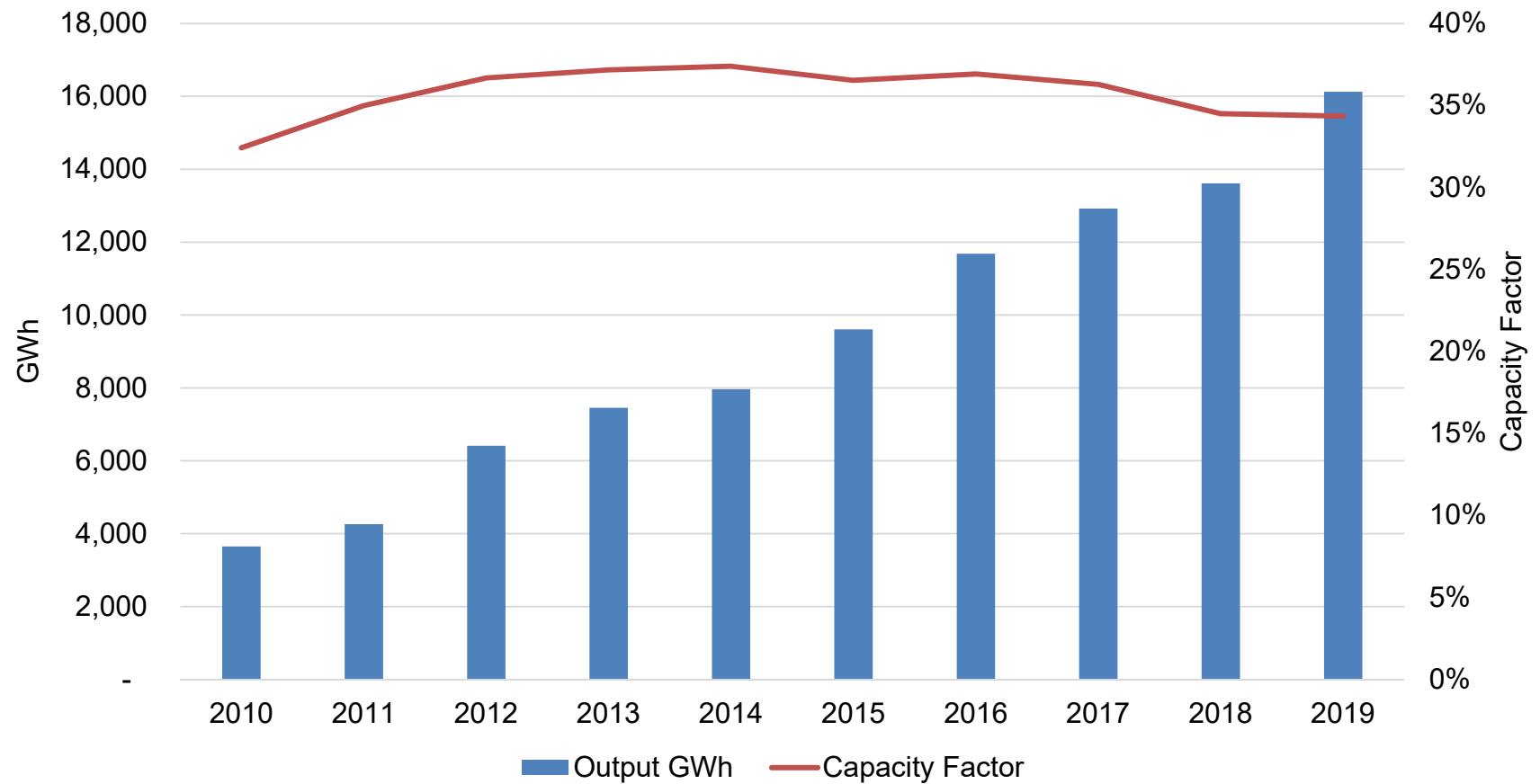
All or some of the renewable attributes associated with the generation have been or may in the future be: (a) sold to third parties, or (b) used to comply with future regulatory requirements

MidAmerican Energy Participates in the Midcontinent Independent System Operator



The size of MISO's non-renewable installed capacity enables MidAmerican Energy to continue developing wind generation while maintaining satisfactory reliability. Non-renewable sources account for 83% of MISO's capacity

MidAmerican Energy Wind Performance



(\$ millions)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Wind Production Tax Credits	\$80	\$93	\$141	\$172	\$183	\$210	\$249	\$287	\$308	\$378

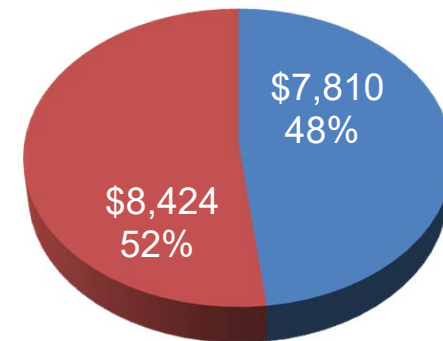
Rate Status

Electric rates among the lowest in the Midwest region and the United States

- No expected need for electric base rate increase through 2028 in Iowa
- All state jurisdictions have energy and transmission cost rider recovery mechanisms; Iowa rider includes PTCs from the 2,284 MW of Wind projects I through VII, the earliest wind projects placed in-service whose rate base is included in base rates; PTCs from Wind VIII through Wind XII and repowered facilities are excluded from rider; PTCs related to future projects for which ratemaking principles have not been sought will also be included
- Rate base reductions via Iowa revenue sharing and other arrangements mitigate the size of any future base rate increases
- Iowa revenue sharing for 2019 and beyond reduces rate base for 90% of pre-tax income on ROEs exceeding a weighted average value calculated annually; based on current forecast, trigger would be 10.5% for 2020
- For Iowa electric, MidAmerican Energy's largest jurisdiction, tax reform mechanism provides customers with the benefits of tax reform by lowering current bills for the impact of the lower tax rate (calculated annually) and continuing to reduce rate base for excess deferred taxes

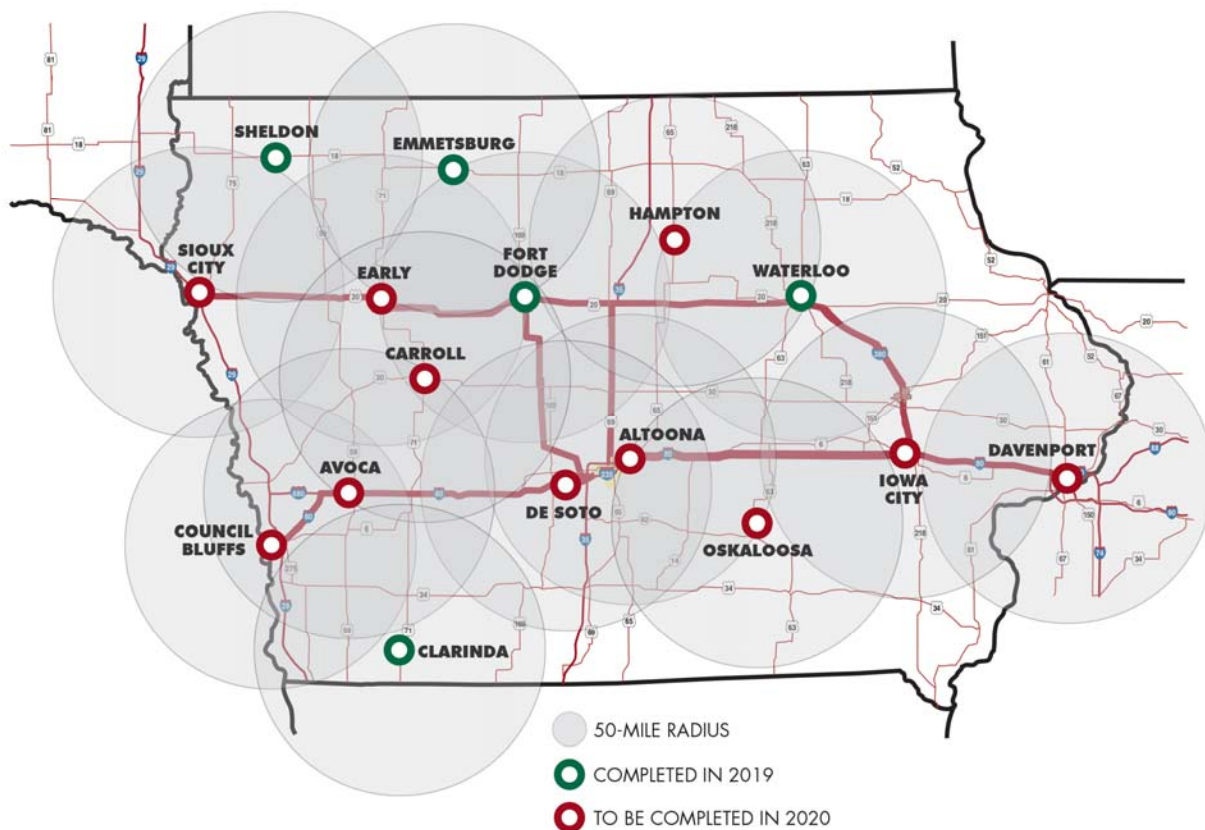
Forecast 2021 Iowa Electric Net Plant

- 48% of Iowa electric net plant subject to rate-making principles
- 11.4% weighted average return on equity
- 33 years weighted average remaining life



- Subject to Rate Principles
- Subject to General Rate Order

Electric Vehicle Charging Network



- In 2019 MidAmerican Energy began the installation of 18 DC fast charging sites throughout its service territory
- All sites scheduled for completion by fall 2020
- Sites located approximately 50 miles apart to reduce range anxiety
- MidAmerican Energy will own and maintain the charging infrastructure
- Each site will be networked to provide MidAmerican Energy and the site host information on use patterns, electric usage, charger operating status and diagnostic information
- The sites are designed to accommodate future expansion

Private Generation in Iowa

- Private generation activities in Iowa
 - The Iowa Utilities Board approved MidAmerican Energy's net metering tariff in 2017 as part of a 3-5 year pilot project
 - Size cap on system equal to customer's annual usage
 - Annual payout of excess energy: 50% paid to customer; 50% paid to low-income heating assistance program
 - Payout at avoided cost
 - Inquiry concluded: Avoided costs set at locational marginal price
- MidAmerican Energy's approach to private generation in Iowa
 - Focused on keeping costs low for all customers
- In March 2020, legislation was signed into law adopting changes in how private generation is treated in Iowa, including an inflow/outflow mechanism that establishes more balance and certainty between customers with private generation and MidAmerican Energy for the compensation for such generation



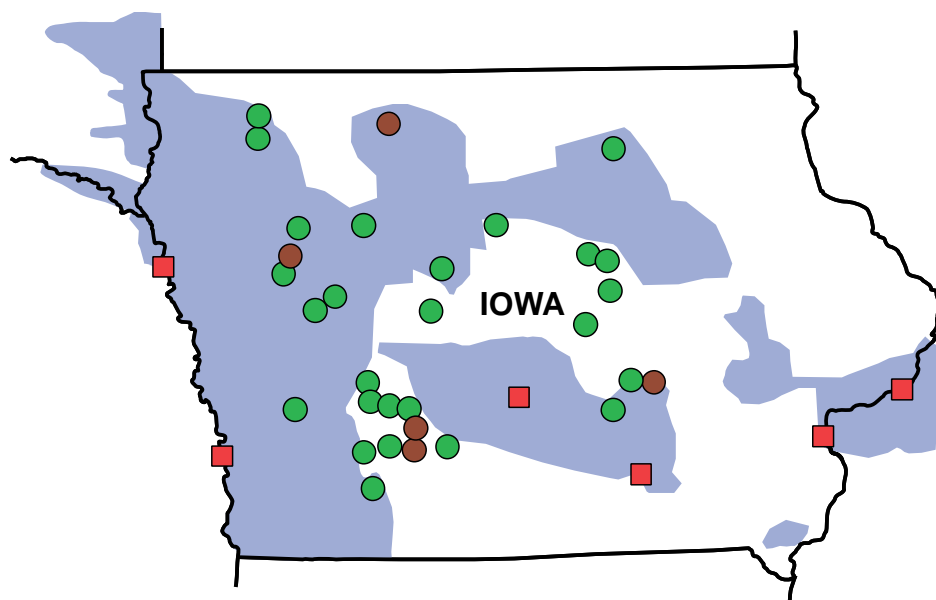
MidAmerican Energy Appendix

MidAmerican Energy

- Headquartered in Des Moines, Iowa
- 3,500 employees
- 1.6 million electric and natural gas customers in four Midwestern states
- 11,379 MW⁽¹⁾ of owned capacity
- Owned capacity by fuel type:

	12/31/19 ⁽¹⁾	12/31/00
Wind ⁽²⁾	60%	0%
Coal	24%	70%
Natural Gas	12%	19%
Nuclear and other	4%	11%

⁽¹⁾ Net MW owned in operation and under construction as of December 31, 2019
⁽²⁾ All or some of the renewable energy attributes associated with generation from these generating facilities may be: (a) used in future years to comply with renewable portfolio standards or other regulatory requirements or (b) sold to third parties in the form of renewable energy credits or other environmental commodities

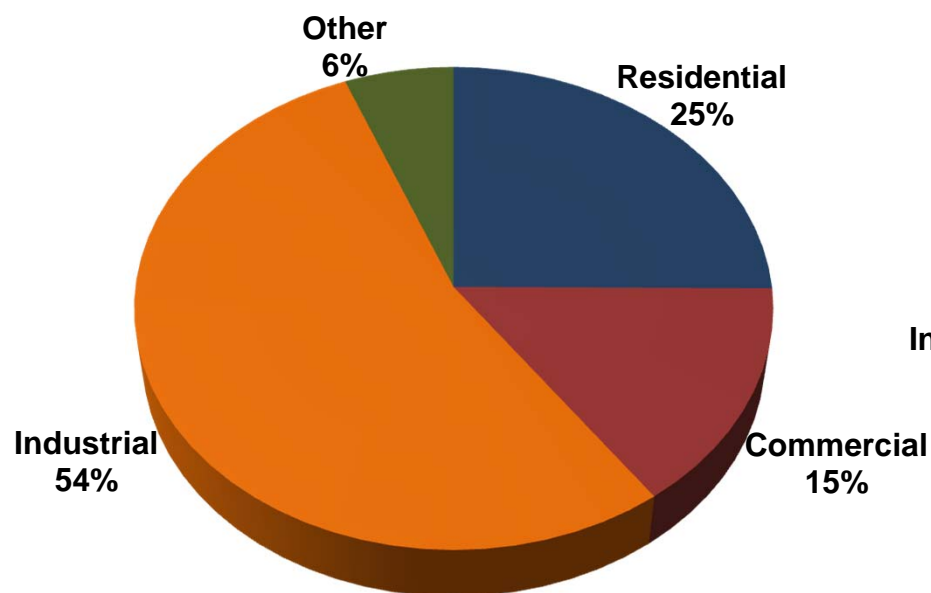


- MidAmerican Energy service area
- Major generating facilities
- Operational wind farms
- Wind farms to begin generating in 2019

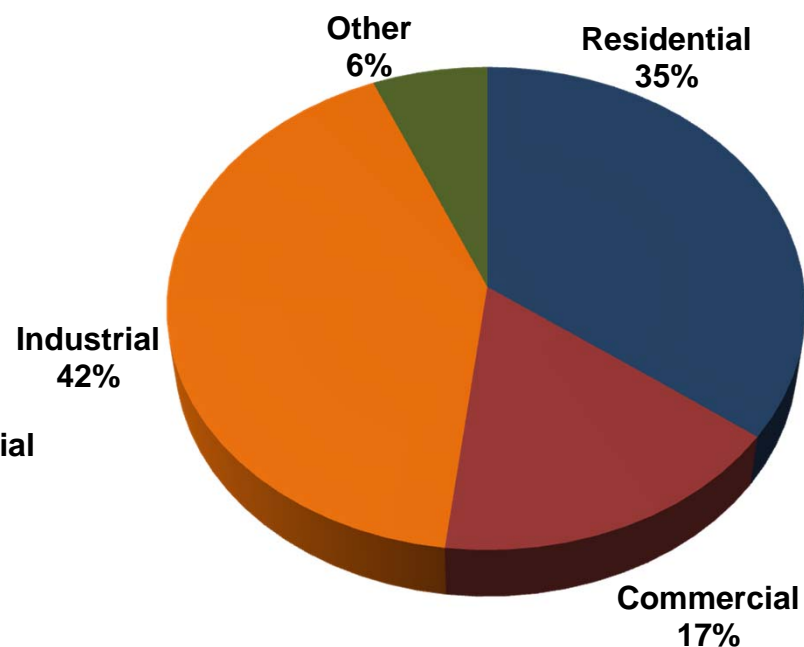
MidAmerican Energy

2019 Retail Electric Sales and Revenue by Class

2019 Retail Electric Sales – 26,201 GWh



2019 Retail Electric Revenue – \$1.9 billion





Phil Jones

President and CEO
Northern Powergrid

Northern Powergrid

Regulatory and Political Overview

- ED1 – strong performance continues
 - Costs and outputs: on target
 - Customer satisfaction: 2019 best ever result of 88.8% (2018: 87.6%)
 - Network performance: five years of strong performance
 - Revenues decrease and RAV grows as regulatory asset life transitions to 45 years
 - Inflation protection continues to apply
 - Ofgem confirmed there would be no mid-period review
- Ofgem is signaling a tougher outlook for the RIIO2 reviews with lower base returns, weaker incentives, and a return to five-year price control periods

<i>(£ millions) – U.S. GAAP</i>	2019	2018
Revenues	792	764
Operating Income	369	364
Capex	466	401
RAV	3,365	3,262
Interest Coverage	3.4x	3.4x
Debt to RAV	61%	58%

<i>Regulatory Parameters</i>	ED1 (2015-2023)	DPCR5 (2010-2015)
Allowed Equity Returns ⁽¹⁾	6.0%	6.7%
Allowed Cost of Debt ^{(1),(2)}	2.1%	3.6%
Annual Totex ⁽³⁾ vs DPCR5	95%	100%
Avg. Annual RAV ⁽⁴⁾ Growth	1.3%	3.7%
Regulatory Asset Life	20-45 years	20 years

(1) – Plus RPI inflation

(2) – ED1 indexed, figure stated is forecast average for ED1

(3) – Total activity costs

(4) – 2012-2013 prices

Northern Powergrid Regulatory Update

- Northern Powergrid's next price control starts in April 2023
- Ofgem's framework decision signalled that the conservative approach applied to RIIO2 transmission and gas distribution reviews will form the basis for RIIO-ED2
 - The indicative base cost of equity of 4.3% (plus CPIH) is over 2 percentage points lower than the current allowed return
 - The general direction of travel is a reduction in incentive strength and a cap on overall returns reduces the scope for outperformance and cash flow
- Ofgem has decided against introducing the cash flow floor mechanism – which we strongly opposed
- The Competition & Markets Authority has received five separate referrals
 - One for Air Traffic Control and four in relation to Ofwat's proposals for water
 - The outcomes are likely to influence Ofgem's decision making
- Our strong balance sheet protects Northern Powergrid from the credit risk injected by Ofgem's wider RIIO2 thinking, but that position is not reflective of the entire sector
- We continue to push Ofgem to focus on driving efficiency, outputs and long-term investment for customers through well-balanced, incentive-based price controls

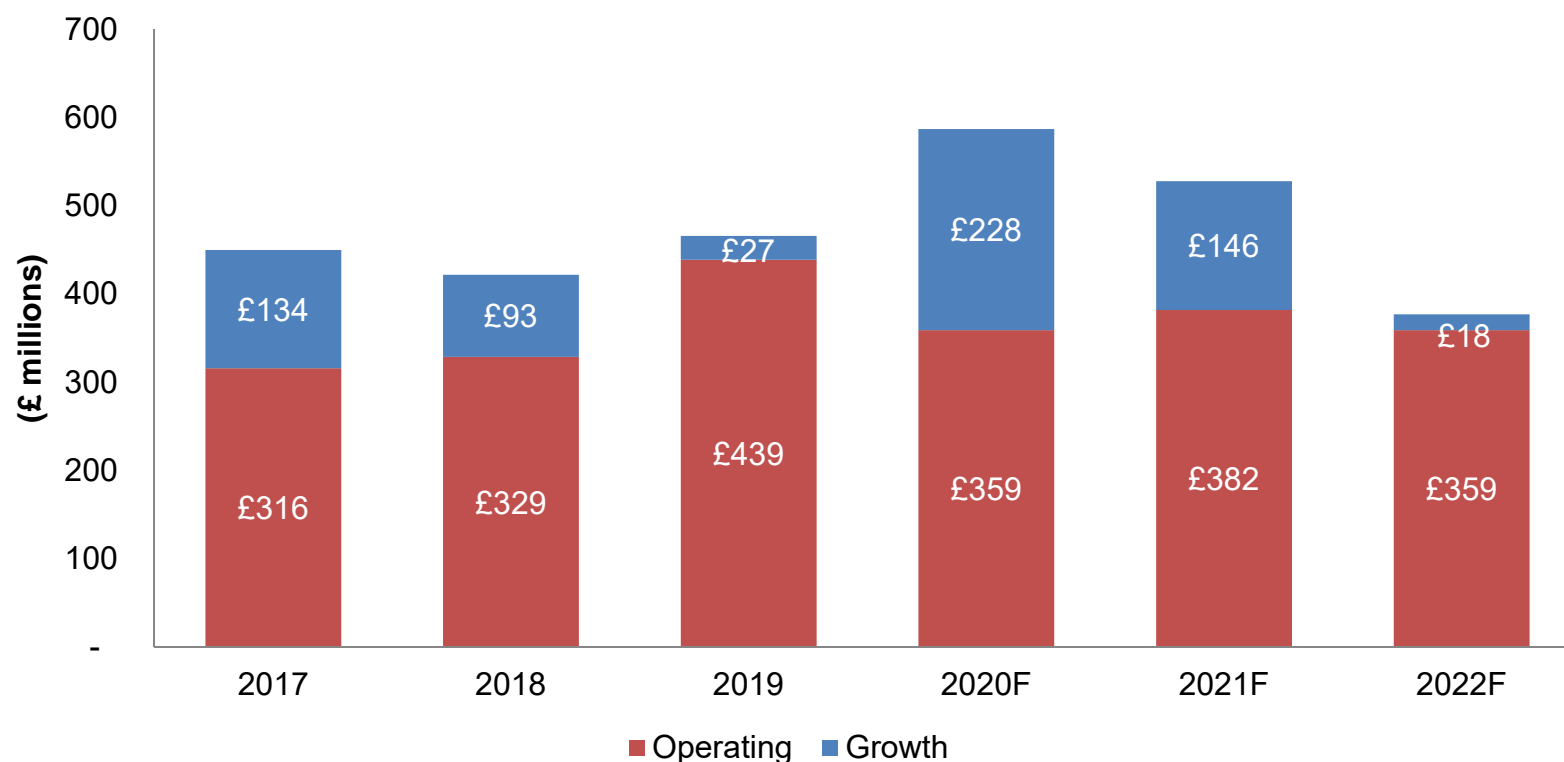
UK Political Environment

- The December 2019 election brought a decisive majority for Boris Johnson's Conservative Party, bringing an end to the near-term risk of nationalization
- The legal process for Brexit has concluded
 - Trade negotiations are set to emerge during 2020
 - The fundamentals of our business are not directly affected by the outcome of negotiations
- Government policy continues to focus on decarbonization, putting energy networks at the heart of the transition
 - Legislation binds the UK to be carbon-neutral by 2050
 - Government is consulting on a ban on the sale of all combustion engine cars by 2035
- Our approach remains unchanged – we continue to provide the best possible service to our customers at low cost and continue to stay engaged with regulators and key stakeholders

Northern Powergrid Capital Investment Plan

- Operating capital delivers our ED1 output commitments
- The smart meter rental business continues to grow with capital expenditure expected in 2020 of £82 million, which is lower than the peak of 2017 as the industry transitions to the second generation of smart meters

(£ millions) 2020-2022	Current Plan		Prior Plan	
Operating	£	1,100	£	1,098
Growth	£	392	£	392
Total	£	1,492	£	1,490



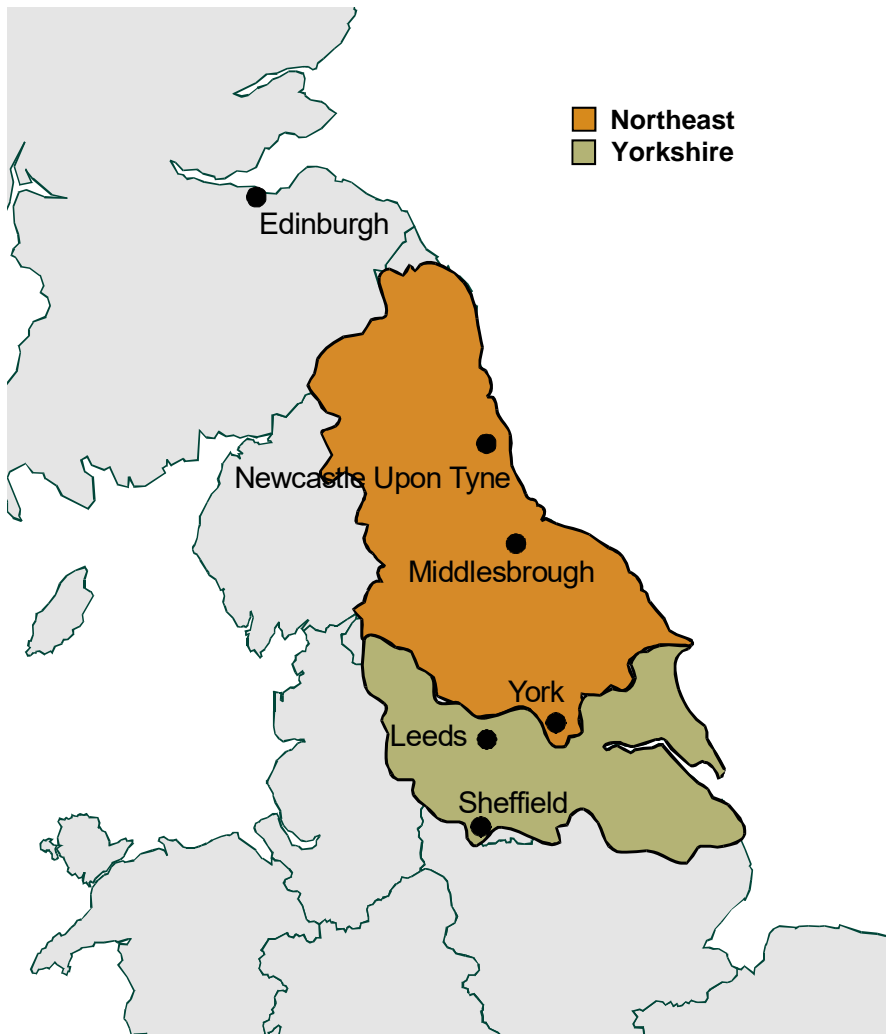
Growth Opportunities in the UK

- In 2019, we completed the 50% acquisition of the Thames Pipeline and six Southern North Sea gas development fields, held jointly with IOG plc
 - Development of Phase 1 will involve £244 million of Northern Powergrid capex
 - Phase 2 will be reviewed during 2020
 - Production life 2021-2037
- Diversified fields and development opportunities allow for a long-term position to offset near-term risk from market movements
- Commodity price weakness has previously offered opportunities for cost reduction. Flexibility in current projects allows for key costs to be reviewed, with reviews ongoing
- Smart meter rental continues to grow
 - Over 2.5 million smart meter units have been deployed to date and we have total contracted volumes of 3.3 million meters with an investment value of £516 million
- The UK's low-carbon agenda continues to signal a need for more investment in networks



Northern Powergrid Appendix

Northern Powergrid



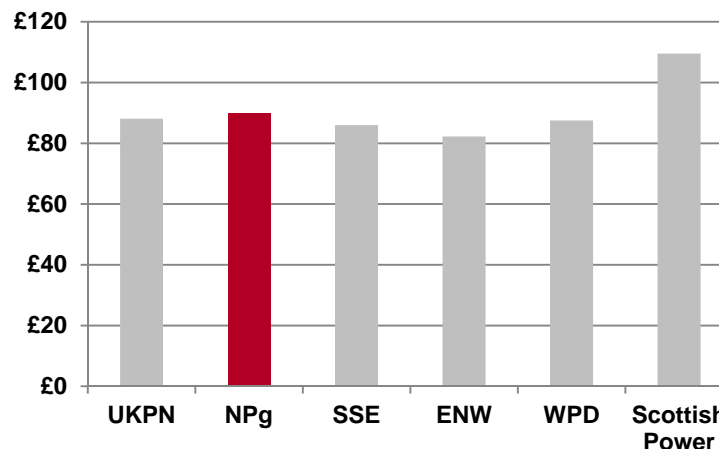
- 3.9 million end-users in northern England
- Approximately 61,000 miles of distribution lines
- Approximately 59% of distribution revenue from residential and commercial customers in 2019 (2018: 60%)
- Distribution revenue (£ millions):

Customer Type	YE Dec-19	% of total	YE Dec-18	% of total
Residential	311	46%	305	46%
Commercial	89	13%	91	14%
Industrial	272	40%	260	39%
Other	7	1%	9	1%
Total	680	100%	665	100%

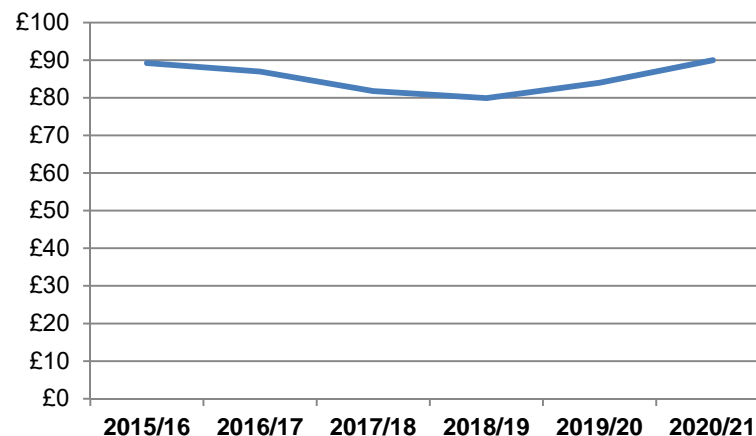
Comparison of Customer Rates

- Ofgem estimates that the average domestic customer in Great Britain will pay £90 per year in 2020-2021 for electricity distribution costs⁽¹⁾
- Our average customer will pay £90 per year, comparable to other DNOs
- Our prices are approximately 3% lower in real terms than in 2015
- By the end of the ED1 price control, our prices are forecast to be 4% lower in real terms than in 2015
- Actual customer bills are sensitive to the geographic region in UK, consumption volumes and timing differences in recouping asset investments via Distribution Use of System charges in customer bills

Typical Domestic Customer Charges (2020-2021)



Average Northern Powergrid Customer Charges (2015-2020)



(1) Nominal terms, Source: DNOs' published charges



Scott Thon

President and CEO
AltaLink

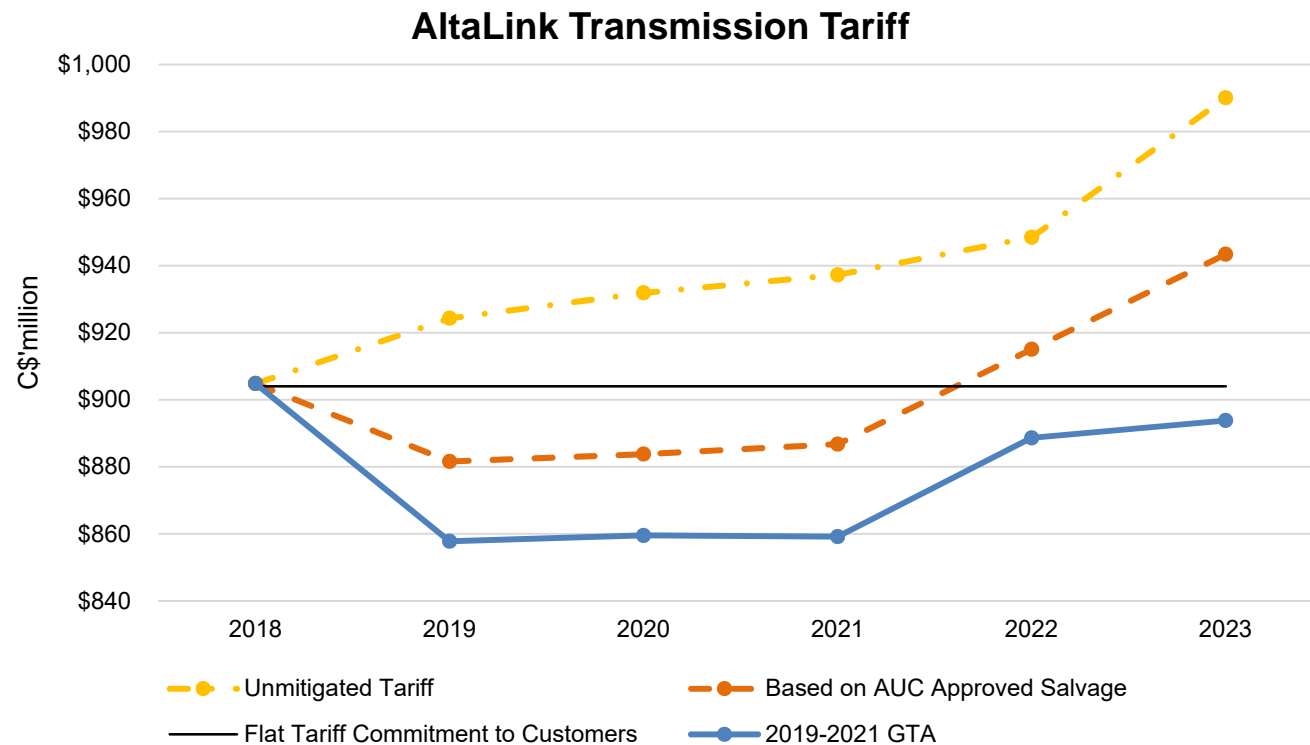
AltaLink, L.P.

Strong 2019 Results

- Continue to Maintain Top Quartile Operational Performance well ahead of Canadian Peer Group
 - **Safety** – Canadian Electricity Association (CEA) President's Award of Excellence for top transmission employee safety for the third consecutive year
 - **Reliability** – Best ever reliability of service provided to customers
 - **Customers** – Best ever customer satisfaction survey results for direct customers at 99%
 - **Environment** – Recognized as a sustainable electricity company by the CEA
- Flat for Five and Customer Rate Levelization
 - 2019-2021 GTA represents the first three years of five-year commitment to flat tariffs of no higher than the 2018 approved revenue requirement of C\$904 million
 - Reached a negotiated settlement (NSA) with customers including savings of C\$22.5 million for O&M and C\$58 million for sustaining capital
 - NSA excludes the proposed change in salvage methodology and fire mitigation which were part of a hearing
- Rate Base is leveling at C\$7.6 billion
 - Strong cash flow with more than enough to support a capital program of C\$300 – C\$400 million per year over the foreseeable future

Flat for Five Tariff

C\$1.2 billion in Total Customer Savings



- Approved customer rate relief initiatives have delivered savings of about C\$650 million for the years 2015-2018 and are expected to deliver additional savings of about C\$280 million during the 2019-2021 GTA period
- The 2019-2021 GTA includes additional savings of approximately C\$230 million. If approved, this will result in total customer savings of approximately C\$1.2 billion for the period 2015-2021
- The proposed rate relief measures in AltaLink's 2019-2021 GTA are not expected to have an impact on the company's credit ratings

AltaLink Regulatory Update

Negotiated Settlement for 2019-2021 GTA

2019-2021 GTA (Negotiated Settlement) – Decision expected in 2020

- Reached a negotiated settlement (NSA) with customers including savings of C\$22.5 million for O&M and C\$58.0 million for sustaining capital
- NSA excludes the proposed change in salvage methodology and fire mitigation which were part of a hearing

2021 Generic Cost of Capital (GCOC)

- Company and expert evidence filed on January 20, 2020
- On March 19, 2020, the commission deferred the GCOC process to a future date due to COVID-19
- Commission intends to explore the possibility of returning to a formula-based approach to setting cost of capital parameters in subsequent GCOC proceedings
- Current approved parameters include an 8.5% ROE and 37% equity thickness for years 2018-2020

2014-2015 Direct Assign Capital Deferral Account (DACDA) - C\$3,833 million

- Final decision received on October 30, 2019 with the commission approving a one-time settlement of C\$119.4 million including the recovery of C\$9.6 million in carrying costs

2016-2018 DACDA - C\$976 million – Decision expected in 2020

- Application includes total capital additions of C\$976 million, C\$26 million of cancelled projects and C\$3 million of carrying costs
- If approved by the commission, revenue true-up results in a one-time payment from the AESO of approximately C\$44 million

AltaLink Regulatory Update

Fortis Customer Contributions

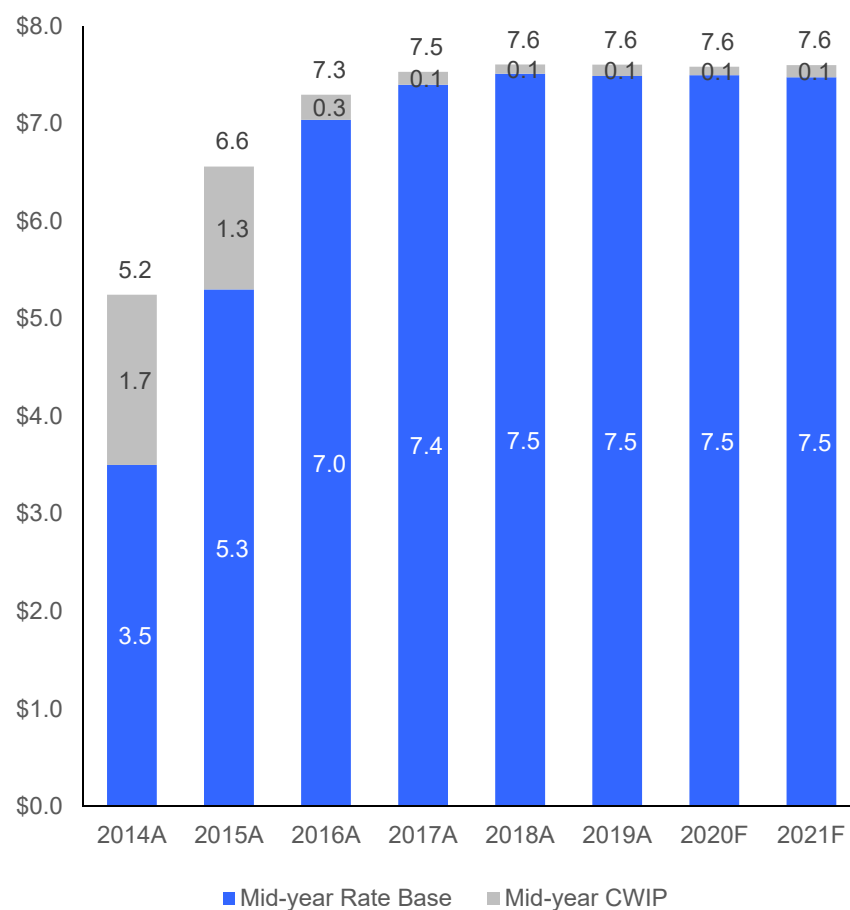
- On September 22, 2019, the AUC approved AltaLink's proposal to refund FortisAlberta (Fortis) customer contributions, which will increase AltaLink's capital investment by approximately C\$375 million
- The Fortis customer contributed transmission assets are owned and operated by AltaLink and are already included in AltaLink's fixed assets
- The proposal will benefit customers by flowing through AltaLink's lower cost of capital rather than Fortis' higher cost of capital, which will result in customer savings of approximately C\$115 million over a 5-year period
- Fortis filed a Review and Variance Application (R&V) on September 25, 2019, which was granted by the AUC
- On October 31, 2019, AltaLink, intervenor groups and the commission filed rebuttal evidence in response to Fortis' R&V submission
- On February 12, 2020, Fortis filed a motion with the commission asking for a hearing

Strong Rate Base Capital Investment in Place

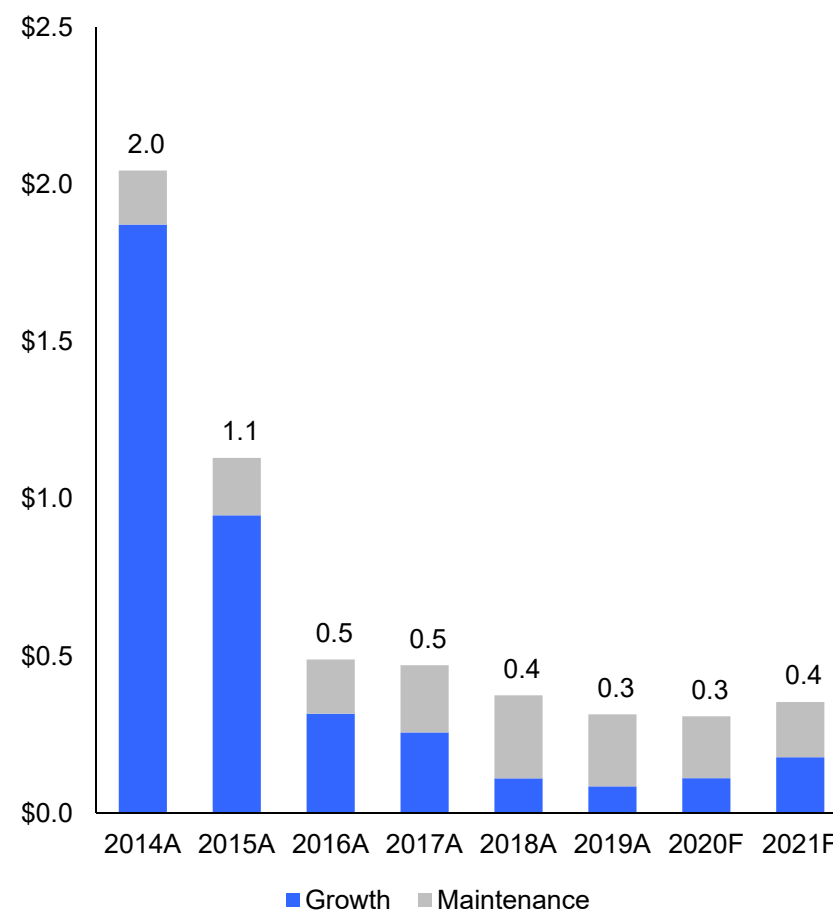
With Projected Capital Expenditures Normalizing

(C\$ billions)

Rate Base Levelling at C\$7.6 billion



Gross Capital Expenditures



Forecast based on 2019-2021 GTA, July 2019

Alberta Climate Leadership Plan Update

Previous New Democratic Party Government

- The province reached a settlement with coal generators to have all coal plants phased out by 2030
- An economy-wide carbon tax was implemented January 1, 2017, to encourage energy efficiency and cover the cost of transitioning to renewables
- The Government had targeted 5,000 MW of renewables through the Renewable Electricity Program by 2030
- Plans were in place to shift the power market to a capacity market from the energy-only market

New UCP Government

- Carbon tax eliminated
- A federally imposed carbon tax went into effect January 1, 2020, for emitters not covered by the UCP Technology Innovation and Emissions Reduction (TIER) system
- TIER applies to facilities that emit more than 100,000 tons of greenhouse gases a year and went into effect January 1, 2020
- Previously awarded REP auctions to continue, while future REP auctions are canceled
- No plans to shift to a capacity market for power



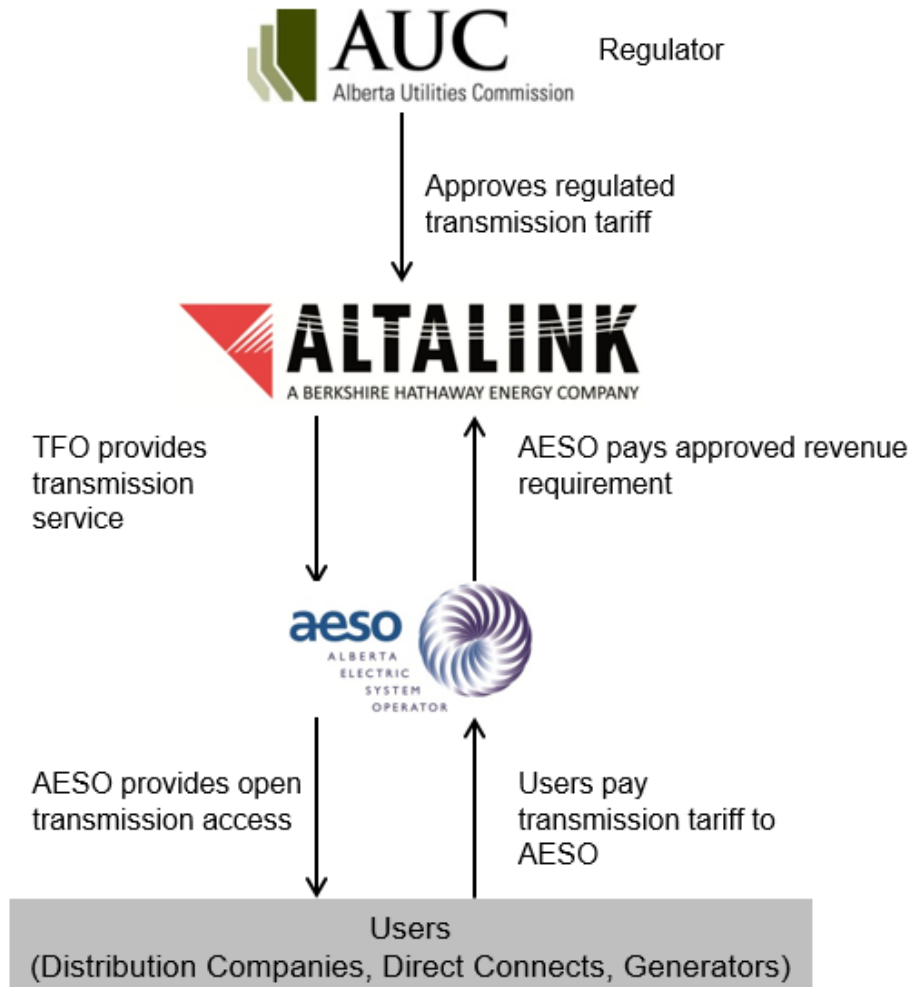
AltaLink Appendix

AltaLink, L.P.



- Owner and operator of regulated electricity transmission facilities in the province of Alberta
 - Supplies electricity to approximately 85% of Alberta's population
- Approximately 8,080 miles of transmission lines and 308 substations within the province of Alberta
 - No volume or commodity exposure
 - Supportive regulatory environment
 - Revenue from AA- rated Alberta Electric System Operator (AESO)
- Mid-year 2020 forecast rate base of C\$7.6 billion as per the 2019-2021 GTA

Regulatory Framework Supports Predictable Revenue



- AltaLink receives approved tariff from AESO in equal monthly installments
 - No exposure to variability in electricity prices
 - No electricity volume risk
- Tariffs are based on cost-of-service regulatory model under a forward test year basis
- The AESO, who is responsible for system planning, directs substantially all of AltaLink's capital spending

C\$1.2 billion of Proposed and Approved Customer Rate Relief

Approved & Proposed Customer Rate Relief: 2015 - 2021 Impact

Customer Rate Relief (in millions of dollars)							
	2015	2016	2017	2018	2019	2020	2021
Approved	Discontinuation of CWIP-in-rate base	69	13	4	2	-	3
	Refund of previously collected CWIP-in-rate base	123	142	-	-	-	-
	Change from future income tax to flow through	-	68	89	90	91	90
	Reduction in operating costs	-	-	8	8	-	-
	Reduction in capital spending	-	-	-	1	1	1
	Increase in revenue offsets	-	-	1	1	-	-
	Depreciation surplus refund	-	-	16	16	-	-
Proposed	Reduction in salvage collection (GTA filing)	-	-	-	44	49	56
	Depreciation refund (GTA filing)	-	-	-	10	10	10
	Reduction in depreciation (GTA filing)	-	-	-	5	6	6
	Reduction in operating costs (NSA)	-	-	-	5	9	9
	Reduction in capital spending (NSA)	-	-	-	1	3	6
	Reduction in interest rates (NSA)	-	-	-	2	1	0
	Reduction in depreciation for steel poles (NSA)	-	-	-	1	1	1
Total annual rate relief		192	223	118	118	159	182
Cumulative relief		192	415	533	650	809	1,162

- Approved customer rate relief initiatives have delivered savings of about C\$650 million for the years 2015-2018
 - C\$600 million for the 2015-2016 GTA and C\$50 million for 2017-2018 Negotiated Settlement
 - Approved initiatives will deliver additional customer savings of about C\$280 million during the 2019-2021 GTA period
- As part of Flat for Five, the 2019-2021 GTA is proposing additional savings of about C\$230 million for the years 2019-2021
 - If approved, this will result in total customer savings of approximately C\$1.2 billion for the period 2015-2021
- Strong customer satisfaction survey results for direct customers, with scores of 96% for 2018 and 99% for 2019

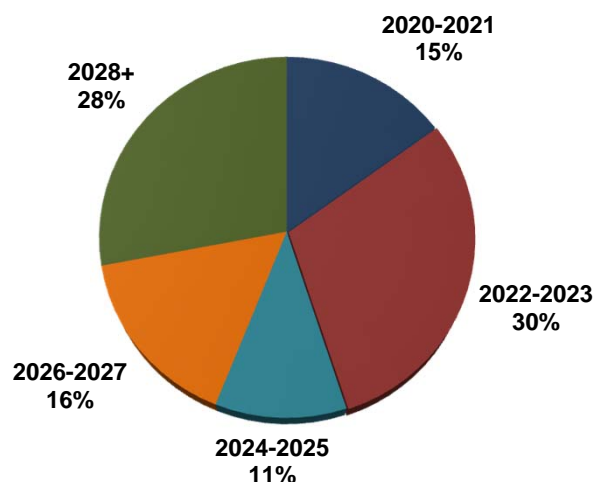


Mark Hewett

President and CEO
BHE Pipeline Group

BHE Pipeline Group Shipper Contract Updates

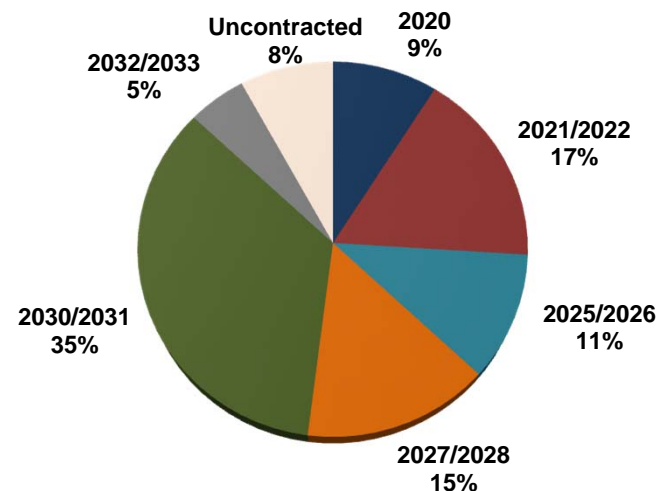
Northern Natural Gas – Market Area Transportation Contract Maturities ⁽¹⁾



- Market Area Transportation weighted average remaining contract term of over seven years
- 83% of 2019 storage revenue resulted from long-term contracts, with an average remaining contract life of approximately six years
- Long-term contracts with creditworthy counterparties – top 10 customer groups (61% of 2019 revenue) have a weighted average credit rating of A-/Baa1
- In 2019, completed approximately 0.7 Bcf/day in contract renewals, primarily with maximum rate shippers

⁽¹⁾ Based on maximum daily quantities of market area entitlement in decatherms as of December 31, 2019

Kern River – Transportation Contract Maturities ⁽²⁾



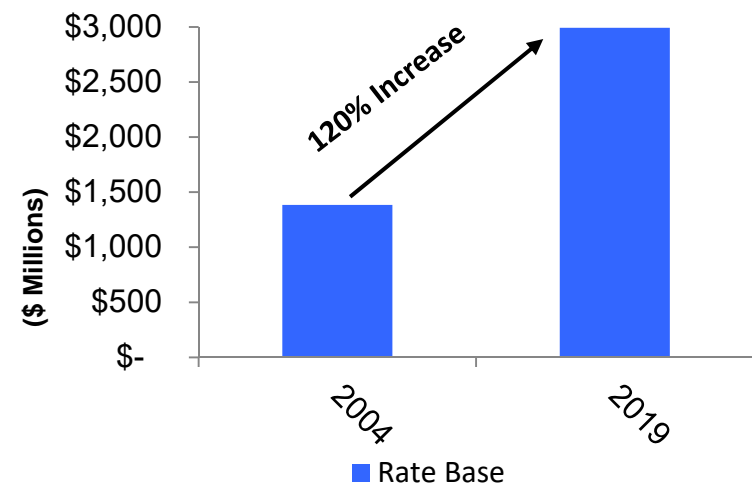
- Weighted average remaining contract term of nearly eight years
- 85% of revenue through December 31, 2019, is based on demand charges
- Weighted average shipper rating of A-/A3⁽³⁾
- 71% of capacity is committed to contracts that expire after 2021
- Shippers that do not meet credit standards are required to post collateral

⁽²⁾ Based on binding shipper commitments for re-contracting and total system design capacity of 2.2 million Dth per day

⁽³⁾ Weighting based on shipper annual revenue for shippers with published credit ratings

Northern Natural Gas Regulatory Update

- In January 2019, FERC initiated a Section 5 rate proceeding against Northern
 - In the filing, FERC calculated a 2018 pro-forma return of 17.3%
- Northern filed a motion to terminate the Section 5 rate proceeding
 - FERC overstated Northern's 2018 pro-forma return by 3.6%
 - Return per FERC's 501-G form should have been 13.7%
 - FERC admitted it made an error in calculating Northern's return when it initiated the investigation but did not terminate the Section 5 proceeding
- Northern filed a general Section 4 rate case in July 2019 that requested significantly increased service rates
 - The annual cost of service increased by \$300 million to \$1.005 billion, primarily due to higher depreciation rates and return associated with capital investment made since the last case over 15 years ago
 - Northern implemented approximately 85% of the rate increase on January 1, 2020
 - Numerous settlement discussions have occurred among the parties
 - The hearing is scheduled to begin June 23, 2020
 - Rate increase will apply to approximately 50% of transportation and storage revenue from maximum rate contracts
 - Rate case could last 2–3 years before resolution

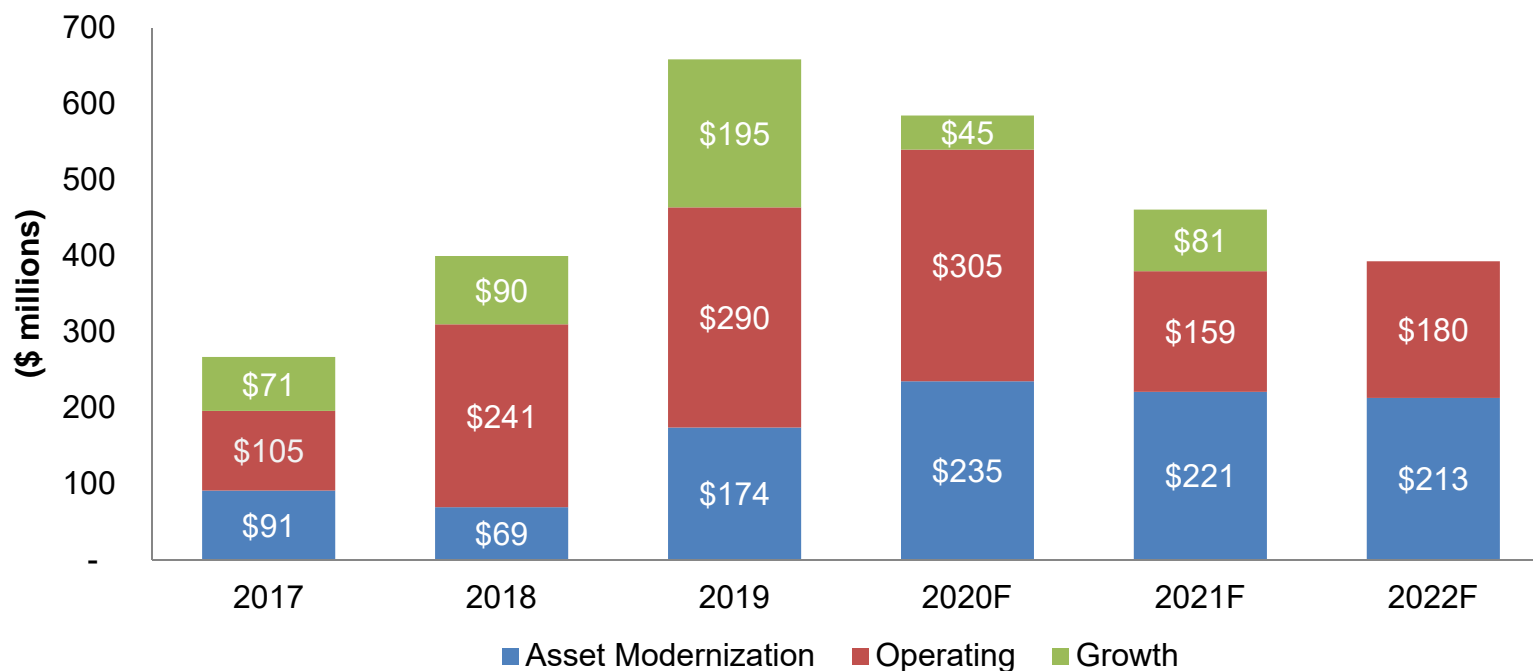


Northern Natural Gas Capital Investment Plan

- Maintenance capital investment is greater than depreciation expense driving increases in rate base

- 2019 book depreciation expense of \$89 million compared to operating capital expenditures of approximately \$450 million
- Asset modernization program includes projects for vintage pipeline replacement, compression replacement, pipeline assessments, LNG equipment replacement and underground storage integrity
- Current plan includes projects related to the new PHMSA rule

(\$ millions) 2020-2022	Current Plan	Prior Plan
Operating	\$ 644	\$ 552
Asset Modernization	\$ 669	\$ 607
Growth	\$ 126	\$ 114
Total	\$ 1,439	\$ 1,273



BHE Pipeline Group

Competitive Advantages

Focus on Customer Satisfaction

- Kern River ranked #1 and Northern ranked #2 out of 38 interstate pipelines in Mastio & Company's 2020 survey; Northern Natural Gas also ranked #1 among mega-pipelines in customer satisfaction and Kern River ranked #1 among regional pipelines in customer satisfaction
- Both pipelines have been ranked in the top 2 for the past 11 years
- BHE Pipeline Group has been ranked #1 for 15 consecutive years

Financial Strength and Stability

- **Northern Natural Gas** – Credit metrics have continued to be strong
- **Kern River** – 100% equity capitalization consistent with tariff design
- **Kern River** received approval of its proposal to provide a credit to customers for tax reform that began in November 2018. The rate credit means an annual cost reduction to eligible customers of approximately \$12.8 million. Kern River's tax credit represented 12% of all rate reductions in the 501-G process. Kern River's rate credit would be eliminated if either there was a change in income tax rates or a section 5 investigation was initiated against the company

Location

- **Northern Natural Gas** – Reticulated system - economically unfeasible to replicate
- **Northern Natural Gas** – Optionality with Field Area - tremendous advantage for customers and pipeline to capture opportunities
 - Proximity to Permian Basin provided for opportunity to capture increased volumes
- **Kern River** – Directly connected to end-use markets in Nevada and California

Competitive Pricing

- **Northern Natural Gas** – Even with a rate increase, prices are competitive with other pipelines which minimizes the level of discounting needed in competitive markets. Competitive rates have been increasing in major markets
- **Kern River** – Period Two rates are the lowest delivered cost interstate pipeline options to Southern California
- Long-term contracts with stable markets for both pipelines

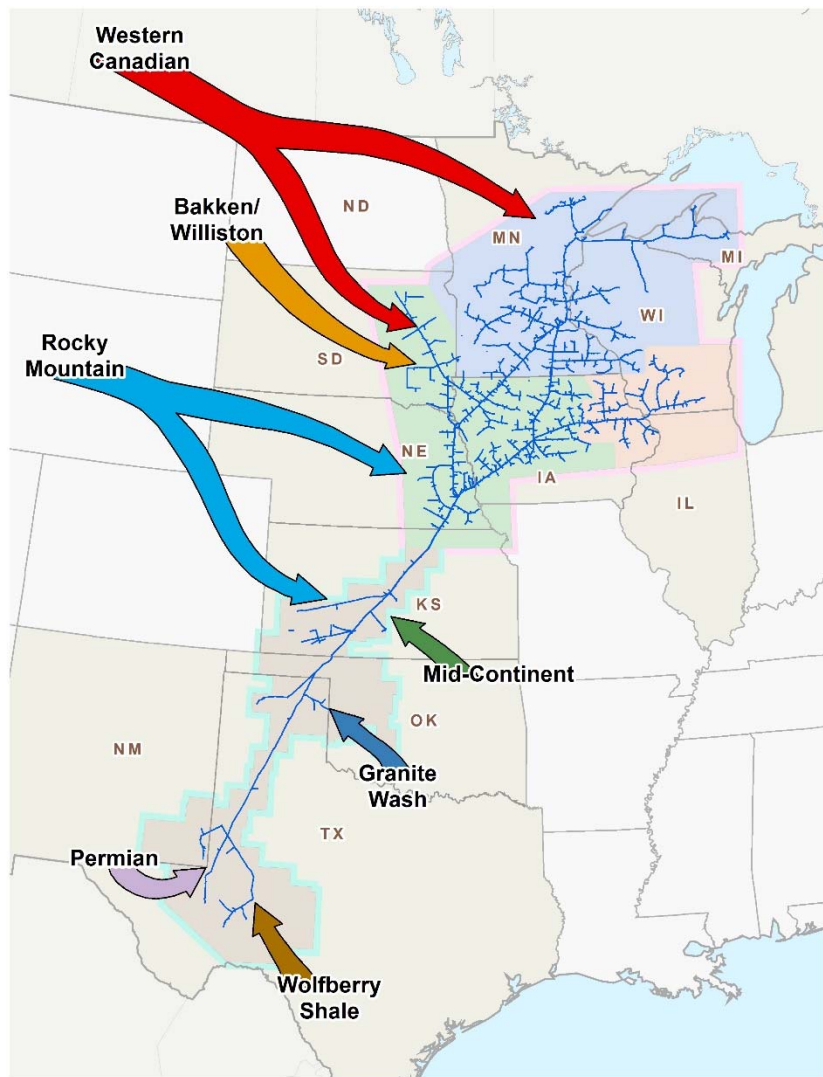
Operational Excellence

- **Northern Natural Gas** – Long history of commitment to system reliability and operational excellence
- **Northern Natural Gas** set a new peak day record for Market Area deliveries of 5.62 Bcf in January 2019 and a new February record of 5.15 Bcf. There were five days in the 2018-2019 winter season with Market Area deliveries in excess of 5 Bcf
- **Kern River** – State-of-the-art transmission system



BHE Pipeline Group Appendix

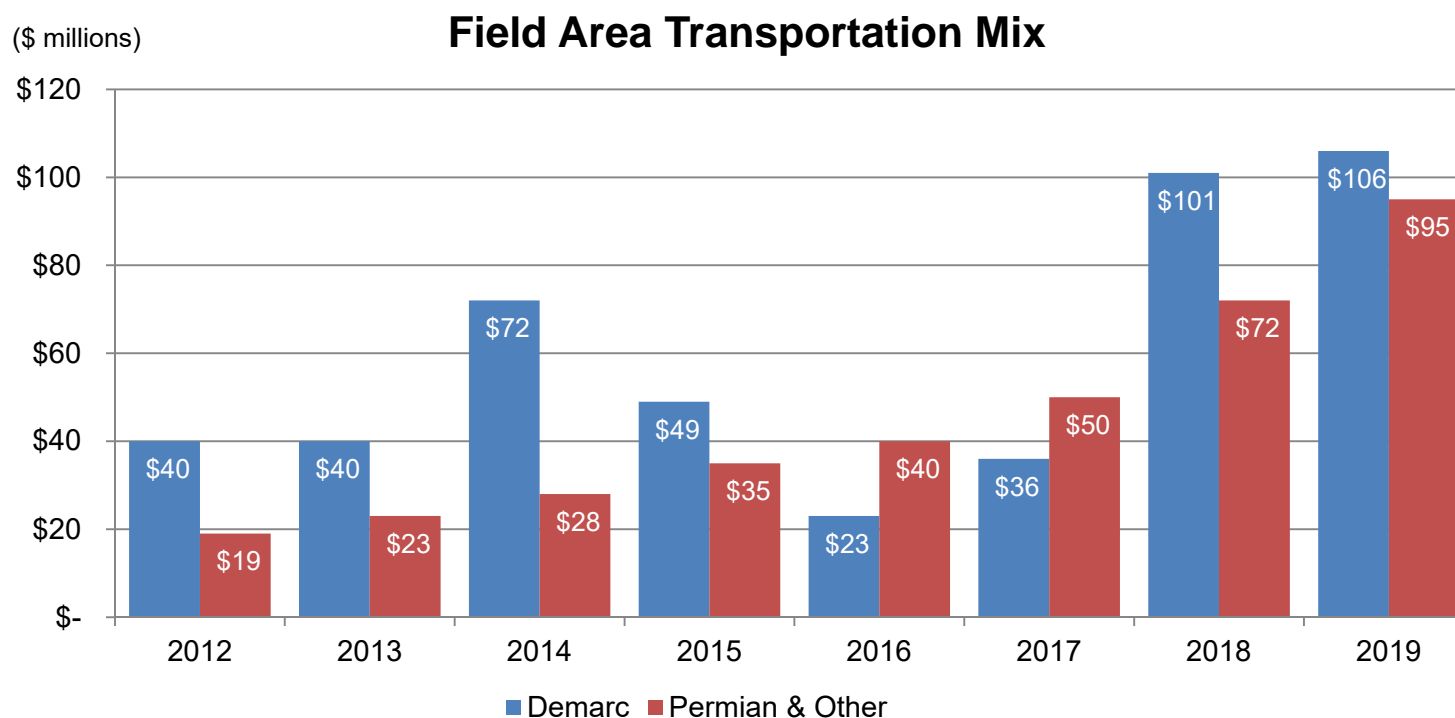
Northern Natural Gas



- Headquartered in Omaha, Nebraska
- Approximately 925 employees
- 14,600-mile interstate natural gas transmission pipeline system
- 6.3 Bcf per day of market area design capacity; 1.73 Bcf per day field area capacity to demarcation and 1.4 Bcf per day of Permian area capacity
- More than 79 Bcf of firm service and operational storage cycle capacity
- 91% of transportation and storage revenue in 2019 is contracted based on fixed amounts (demand charges) that are not dependent on the volumes transported
 - Market area transportation contracts have a weighted average contract term of seven years
 - Storage contracts have a weighted average contract term of six years
- Increased the integrity and reliability of the pipeline
- Ranked #1 among 16 mega-pipelines and #2 among 38 interstate pipelines in 2020 Mastio & Company customer satisfaction survey

Northern Natural Gas Field Area Transportation

- Field area revenue becoming less dependent on fluctuating Demarc business
 - 2019 had significantly higher revenue due to competitive Permian supply prices, resulting in wider-than-normal transportation rates and higher volumes for delivery to Demarc
- Permian Basin revenue increased by 500% from 2012 to 2019
 - Increased demand through Permian expansion projects – including growth to power plants and market constraints
 - Market constraints will decrease to some extent over next few years as additional pipelines are built out of the Permian area



Northern Natural Gas Expansion Projects

- 2019 Market Area Expansions
 - Total capital expenditures of approximately \$255 million, primarily serving both residential and industrial growth needs for three large LDCs in Minnesota, a power plant conversion in Minnesota and two new power plants in Michigan
 - Incremental entitlement of 190,000 Dth/day
 - Annual demand revenues of \$36 million, with contract terms from five to 20 years
- 2020-21 Potential Market Area Expansion
 - Total capital expenditures of approximately \$100 million, serving both residential and industrial growth needs to three large LDCs in Minnesota
 - Incremental entitlement of 32,000 Dth/day
 - Annual demand revenues of \$13 million, with a contract term of six to 10 years

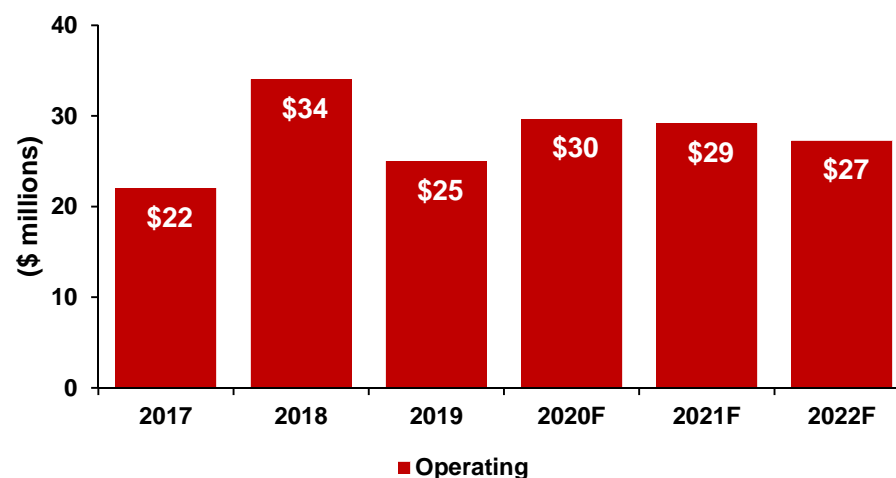
Kern River Gas Transmission

- 1,700-mile interstate natural gas transmission pipeline system
- Design capacity of 2.2 million Dth per day of natural gas
- 85% of revenue through December 31, 2019, is based on demand charges
 - Contracted capacity has a weighted average contract term of nearly eight years
- Ranked #1 among 38 interstate pipelines in 2020 Mastio & Company customer satisfaction survey



(\$ millions) 2020-2022	Current Plan	Prior Plan
Operating	\$ 86	\$ 86
Growth	\$ -	\$ -
Total	\$ 86	\$ 86

Capital Expenditures

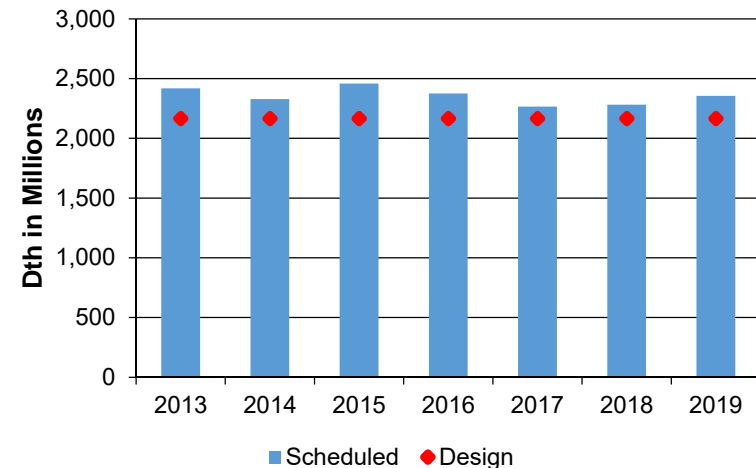


Kern River Gas Transmission

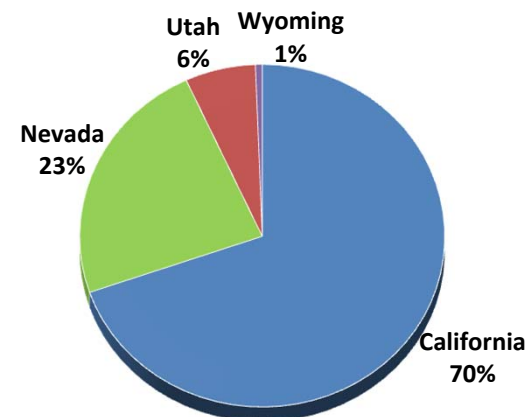
Strong Demand for Services

- Received 24% of Rockies natural gas supply in 2019
- Delivered approximately 26%⁽¹⁾ of California's demand for natural gas in 2018 (an average of 1,641,521 Dth/d in 2019, increase of 9% over 2018)
- Delivered 80%⁽²⁾ of southern Nevada's natural gas in 2019, an average of 551,806 Dth/d
- Scheduled throughput during 2019 averaged 109% of design capacity

Daily Average Scheduled Volume



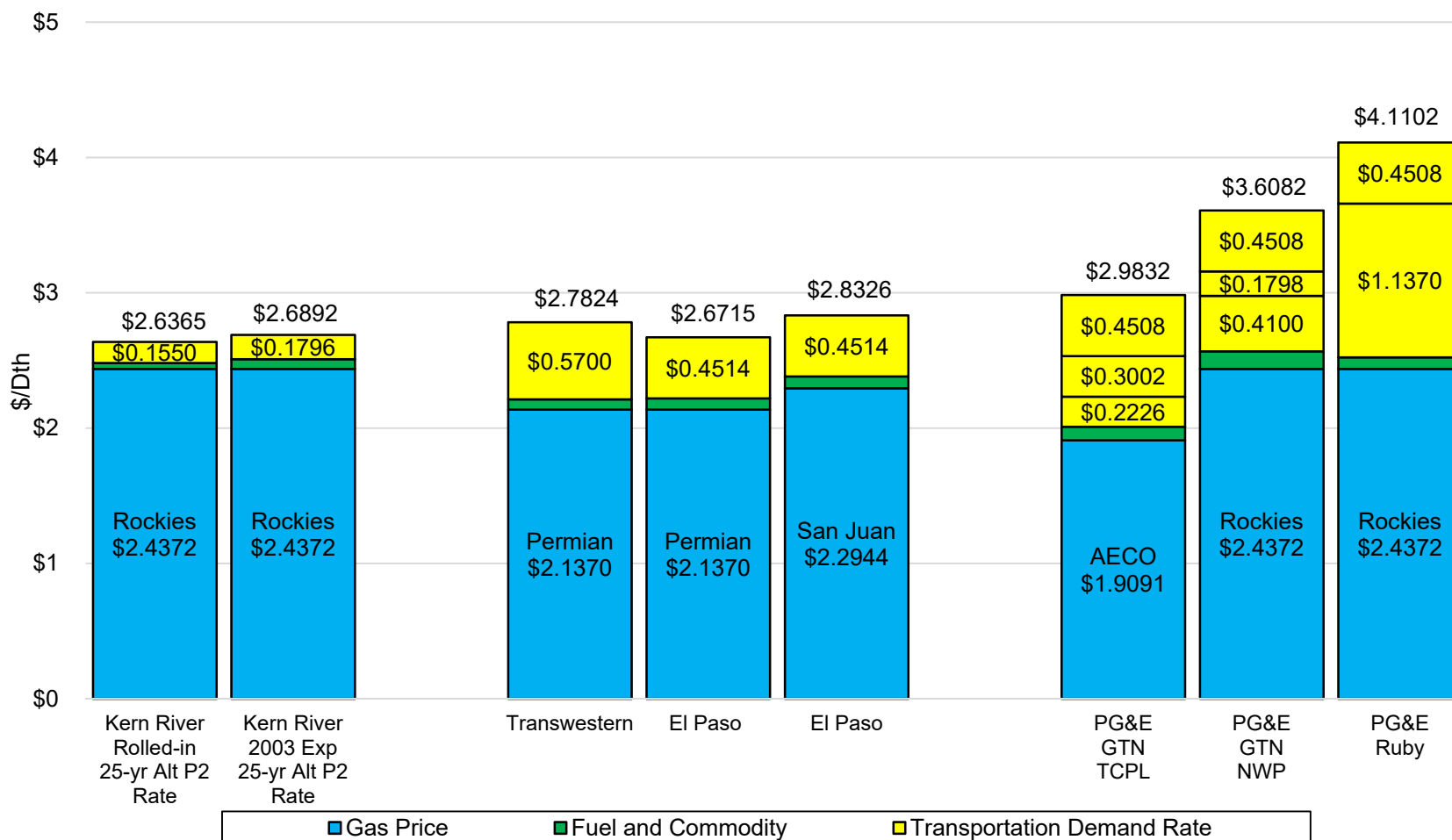
2019 Deliveries by State



⁽¹⁾ Based on the 2019 California Gas Report

⁽²⁾ Based on Kern River's average scheduled volumes to Nevada and Southwest Gas Transmission Company's system capacity served by El Paso Natural Gas Company, LLC or Transwestern Pipeline Company, LLC

Cost Competitive Options to Southern California



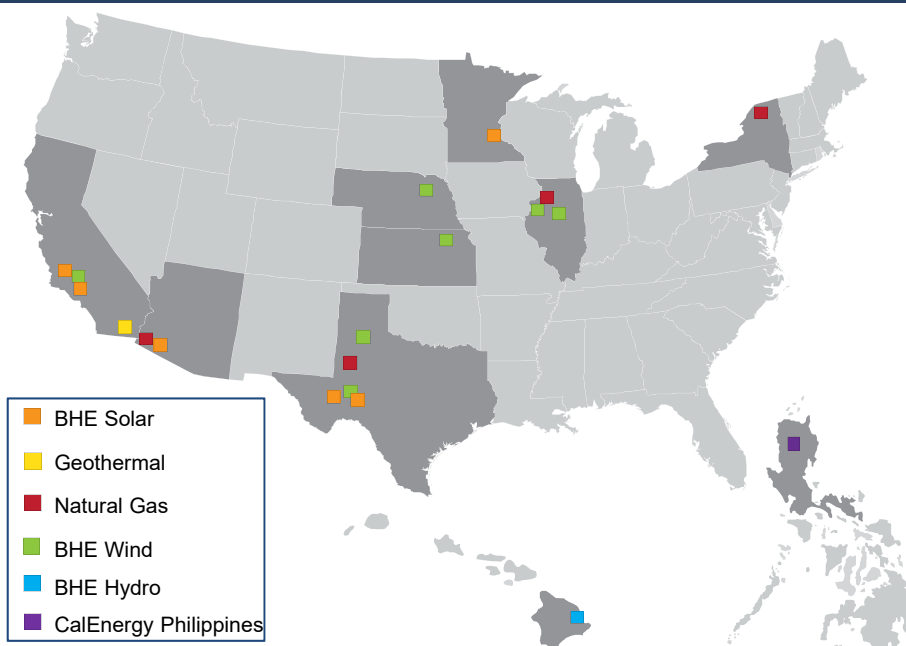
Source: Platts M2M Modeled Natural Gas Curves, 240-Month Daily Assessments Dated January 31, 2020



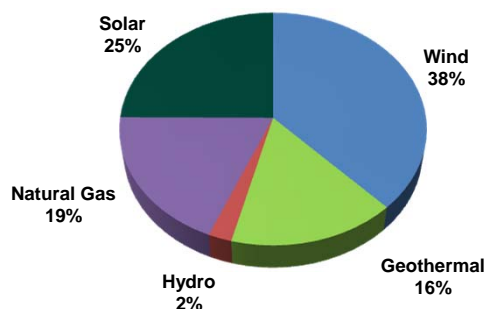
Richard Weech

President and CEO
BHE Renewables

BHE Renewables



Portfolio Composition (1)



	Location	Installed	PPA Expiration	Power Purchaser	Net or Contract Capacity (MW)	Net Owned Capacity (MW)
SOLAR						
Solar Star I & II	CA	2013-2015	2035	SCE	586	586
Topaz	CA	2013-2014	2039	PG&E	550	550
Agua Caliente	AZ	2012-2013	2039	PG&E	290	142
Alamo 6	TX	2017	2042	CPS	110	110
Community Solar Gardens	MN	2016-2018	(2)	(2)	98	98
Pearl	TX	2017	2042	CPS	50	50
					<u>1,684</u>	<u>1,536</u>
WIND						
Grande Prairie	NE	2016	2036	OPPD	400	400
Pinyon Pines I & II	CA	2012	2035	SCE	300	300
Jumbo Road	TX	2015	2033	AE	300	300
Santa Rita	TX	2018	2038	Various	300	300
Walnut Ridge	IL	2018	2028	USGSA	212	212
Bishop Hill II	IL	2012	2032	Ameren	81	81
Marshall Wind	KS	2016	2036	(3)	72	72
					<u>1,665</u>	<u>1,665</u>
GEOTHERMAL						
Imperial Valley	CA	1982-2019	(4)	(4)	345	345
HYDROELECTRIC						
Casecnan	Phil.	2001	2021	NIA	150	128
Wailuku	HI	1993	2023	HELCO	10	10
					<u>160</u>	<u>138</u>
NATURAL GAS						
Cordova	IL	2001	2019	EGC	512	512
Power Resources	TX	1988	2021	EDF	212	212
Saranac	NY	1994	2019	TEMUS	245	196
Yuma	AZ	1994	2024	SDG&E	50	50
					<u>1,019</u>	<u>970</u>
Total Owned					<u>4,873</u>	<u>4,654</u>

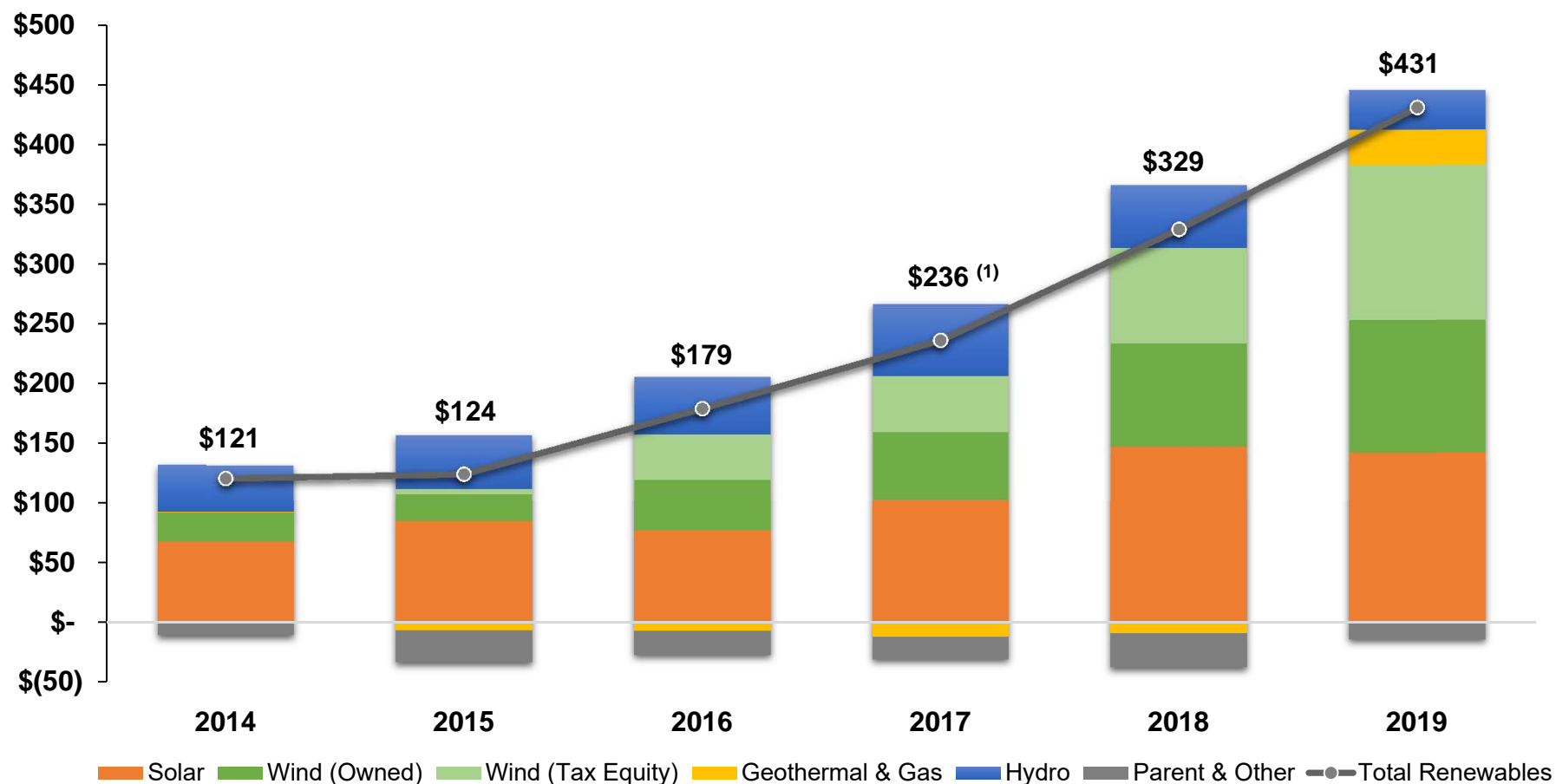
(1) Based on actual generation from January 1 through December 31, 2019

(2) Approximately 100 off-takers for the purchase of all the energy produced by the solar portfolio for a period up to 25 years

(3) Separate PPAs exist with Missouri Joint Municipal Electric Commission (20 MW), Kansas Power Pool (25 MW), City of Independence, Missouri (20 MW) and Kansas Municipal Energy Agency (7 MW)

(4) Seven off-takers for the purchase of all the energy produced by the geothermal portfolio for a period up to 2039

BHE Renewables Net Income Growth (\$m)



- Additional new investments and improved operations continue to drive net income growth. Net income grew 31% in 2019

⁽¹⁾ 2017 net income excludes \$628 million of tax reform benefits

BHE Renewables Tax Equity Investments

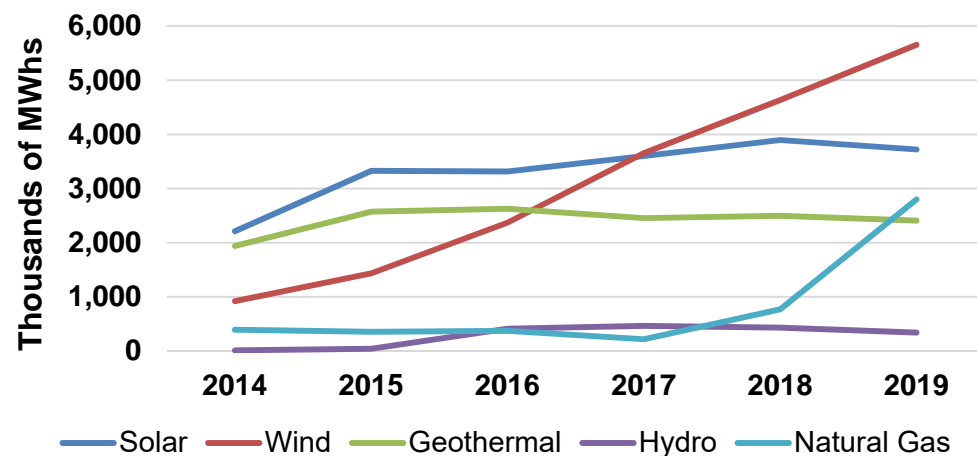
	Invested by Year						
	2015	2016	2017	2018	2019	Future Commitments	Total
Capacity (MW)	204	829	602	808	2,121	2,945	7,509
Investment (\$ in millions)	\$170	\$584	\$403	\$698	\$1,616	\$2,318	\$5,789

- Tax equity investments enable additional investment in new renewable energy projects
- Accounted for as equity method investments



BHE Renewables Operational Performance

Owned Generation by Type



	2018 Capacity Factor	2019 Capacity Factor
Wind	39.3%	38.8%
Solar	29.0%	27.7%
Geothermal	84.5%	79.6%
Hydro	35.7%	27.9%
Gas Plants	9.3%	33.1%
Total	32.4%	36.6%



Environmental, Social and Governance Positioning Ourselves for a Sustainable Future

Our Balanced Long-Term Approach Leads to a Culture of Sustainability

Berkshire Hathaway Energy recognizes the importance of reducing our environmental footprint by minimizing the impact of our operations on the environment. From reducing our air emissions and conserving water to protecting sensitive plant and animal species and their habitats, our Environmental RESPECT policy details our commitment in the areas of Responsibility, Efficiency, Stewardship, Performance, Evaluation, Communication and Training. Our core principles – customer service, employee commitment, environmental respect, regulatory integrity, operational excellence and financial strength – guide our decisions as we work to provide balanced outcomes for all stakeholders

- Sustainability is naturally a part of this balanced approach
- The approach addresses long-term issues, risks and opportunities aligned with our vision and core principles
- Aligns the objectives of providing safe, reliable and affordable clean energy
- Committed and supportive leadership and owners
- Committed and engaged employees

Environmental

- Renewables investments
- Environmental Respect Index
- Species protection
- Carbon reduction efforts
- Methane emissions reduction
- Green bonds

Social

- BHE CARES – global giving and volunteering
- Customer first
- Veterans Engagement and Retention Network
- Diversity and Inclusion Policy

Governance

- Our board of directors own or represent entities that own 100% of Berkshire Hathaway Energy's common stock
- Berkshire Hathaway Energy Code of Business Conduct
- Berkshire Hathaway Inc. Code of Business Conduct and Ethics

Advancing a Sustainable Energy Future

- Berkshire Hathaway Energy is a leader in renewable energy. As of December 31, 2019, approximately 42% of our businesses' owned generation capacity (operating and under construction) was from non-carbon resources
 - Through December 31, 2019, Berkshire Hathaway Energy had spent \$29.3 billion on renewable energy, and made commitments to spend an additional \$5.5 billion on wind generation by 2022
 - The American Wind Energy Association's Year-Ending 2018 Annual Market Report listed Berkshire Hathaway Energy as the largest investor-owned utility of owned regulated operating wind-power capacity
 - As we advance sustainable energy solutions, we are helping our customers achieve their sustainability goals and reduce environmental impact through increasing the amount of renewable energy we generate, empowering customers to conserve and manage their energy use, and partnering with them on unique projects
 - One example of these efforts is an innovative partnership at a newly constructed all-electric, net-zero residential multifamily community that will be partially powered by 5 MW of on-site solar panels with battery storage located in each of the 600 apartments, totaling 12.6 MWhs of energy storage that is controlled by Rocky Mountain Power for the benefit of the community and the broader grid as a real-time dispatchable distributed energy solution
 - MidAmerican Energy is the largest owner in the U.S. of rate-regulated wind capacity, with 6,803 MW in operation or under construction. In 2019, MidAmerican Energy generated wind energy equivalent to approximately 61% of its Iowa customers' annual retail electric usage. Once Wind XII and other wind development projects are completed (expected late 2020) MidAmerican Energy is on pace to meet, by 2021, 100% of its Iowa and South Dakota customers' energy use on an annual basis with renewable, zero-carbon energy, becoming the first major utility in the U.S. to do so for its customers

Advancing a Sustainable Energy Future

- PacifiCorp's Energy Vision 2020 program will repower 1,041 MW of company-owned wind facilities, acquire 950 MW of new wind projects, add 200 MW of wind procured through a power purchase agreement and build a new 140-mile, 500-kV transmission line. The projects are on schedule to be placed in service by year-end 2020 to deliver benefits to customers and improve transmission transfer capacity and reliability. In October 2019, PacifiCorp filed its Integrated Resource Plan, which includes the addition of more than 4,600 MW of new wind generation, 6,300 MW of new solar generation, 2,800 MW of battery storage, and nearly 4,500 MW of coal plant retirements through 2038
- As part of its Integrated Resource Plan filed in 2018 and as amended in 2019, NV Energy announced plans to enter into power purchase agreements to procure generation from nearly 2,200 MW of solar generation and almost 700 MW of battery storage by 2024. Beyond 2024, the resource plan includes nearly 2,000 MW of additional solar generation and 100 MW of geothermal generation through 2038 which is consistent with Nevada's energy policy to increase the amount of renewable energy. Nevada Power retired its last coal units in November 2019
- Owned coal-fueled capacity has declined as a percentage of Berkshire Hathaway Energy's power capacity portfolio from 58% in 2006 to 26% as of December 31, 2019. Since 2013, Berkshire Hathaway Energy has retired or has announced plans to retire approximately 7,800 MW (74% reduction) of coal generation capacity by 2042
- Berkshire Hathaway Energy's natural gas transmission pipelines' operational practices and methane leak detection programs are designed to minimize the release of methane emissions. These leading practices resulted in the gas transmission pipelines' combined leak rates, measured as a percentage of throughput, of 0.040% in 2019, which is significantly less than the industry average and goal of the ONE Future Initiative of 1%
- Additional information regarding our sustainability and environmental outlook can be found at <https://www.brkenenergy.com/environment/>

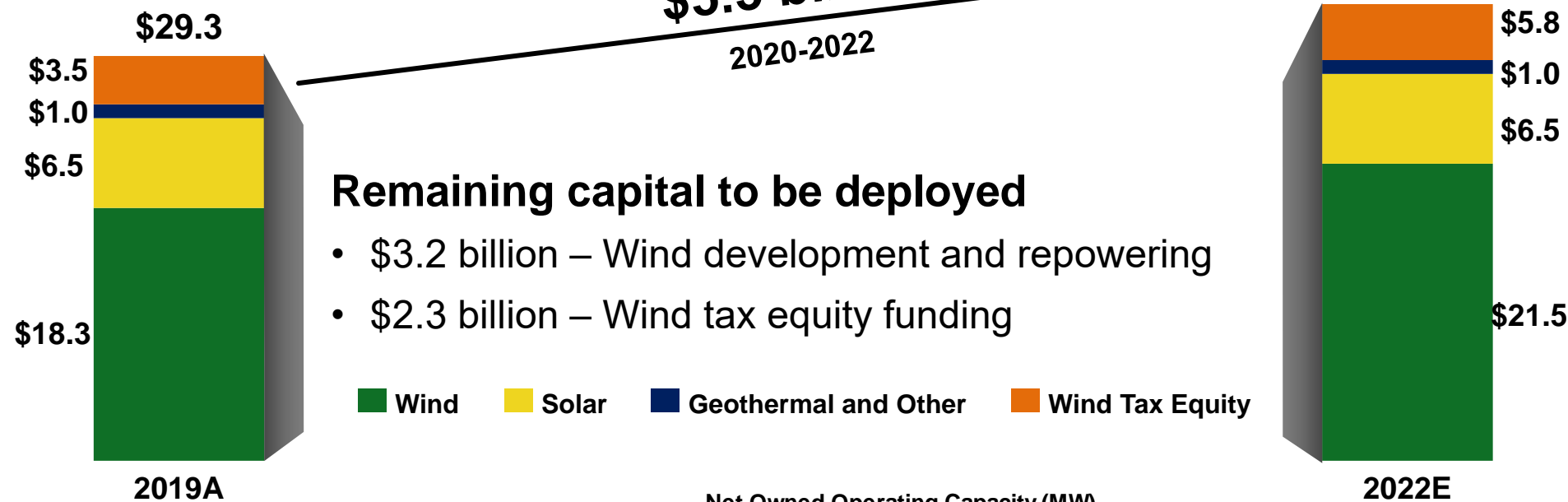
Support a Cleaner Energy Future

\$34.8 Billion Renewable Commitment

(\$ billions)

\$5.5 billion

2020-2022



Net Owned Operating Capacity (MW)

	December 2019			December 2022		
	Wind	Solar	Other	Wind	Solar	Other
PacifiCorp	1,041	-	32	2,231	-	32
MidAmerican Energy	6,177	-	-	6,995	10	-
NV Energy	-	15	5	-	15	5
BHE Renewables	1,665	1,536	345	1,665	1,536	345
	8,883	1,551	382	10,891	1,561	382

- In addition to owned renewable capacity and investments detailed above, Berkshire Hathaway Energy's regulated utilities have renewable energy power purchase agreements for more than 5,200 MW. NV Energy plans to purchase approximately 2,300 MW of additional solar energy and PacifiCorp plans to purchase approximately 200 MW of additional wind/solar energy

Reducing Our Carbon Footprint

- Through fuel switching and retirements, our utilities expect to eliminate approximately 7,800 MW of coal generation through 2042 (a 74% reduction in coal capacity since 2013)
- By December 31, 2042, 100% of PacifiCorp's coal generation facilities are expected to be retired

Coal MW as of Dec. 31, 2013 ⁽¹⁾	Company	Year Retired	10,499 MW
Riverside 3	MidAmerican Energy	2014	(4) MW
Reid Gardner 1-3	NV Energy	2014	(300) MW
Carbon 1-2	PacifiCorp	2015	(172) MW
Riverside 5 – conversion to natural gas	MidAmerican Energy	2015	(124) MW
Walter Scott 1-2	MidAmerican Energy	2015	(124) MW
Neal 1-2	MidAmerican Energy	2016	(390) MW
Reid Gardner 4	NV Energy	2017	(257) MW
Naughton 3 – conversion to natural gas	PacifiCorp	2019	(280) MW
Navajo – interest to be divested	NV Energy	2019	(255) MW
Cholla 4 – assumed retirement	PacifiCorp	2020	(395) MW
North Valmy 1 – planned retirement	NV Energy	2021	(127) MW
Jim Bridger 1 – assumed retirement	PacifiCorp	2023	(354) MW
Craig 1 – assumed retirement	PacifiCorp	2025	(82) MW
North Valmy 2 – planned retirement	NV Energy	2025	(134) MW
Naughton 1-2 – assumed retirement	PacifiCorp	2025	(357) MW
Craig 2 – assumed retirement	PacifiCorp	2026	(79) MW
Colstrip 3-4 – assumed retirement	PacifiCorp	2027	(148) MW
Dave Johnston 1-4 – assumed retirement	PacifiCorp	2027	(745) MW
Jim Bridger 2 – assumed retirement	PacifiCorp	2028	(359) MW
Hayden 1-2 – assumed retirement	PacifiCorp	2030	(77) MW
Huntington 1-2 – assumed retirement	PacifiCorp	2036	(909) MW
Jim Bridger 3-4 – assumed retirement	PacifiCorp	2037	(702) MW
Wyodak – assumed retirement	PacifiCorp	2039	(266) MW
Hunter 1-3 – assumed retirement	PacifiCorp	2042	(1,158) MW
Coal MW as of Dec. 31, 2042			2,701 MW

10,499 MW

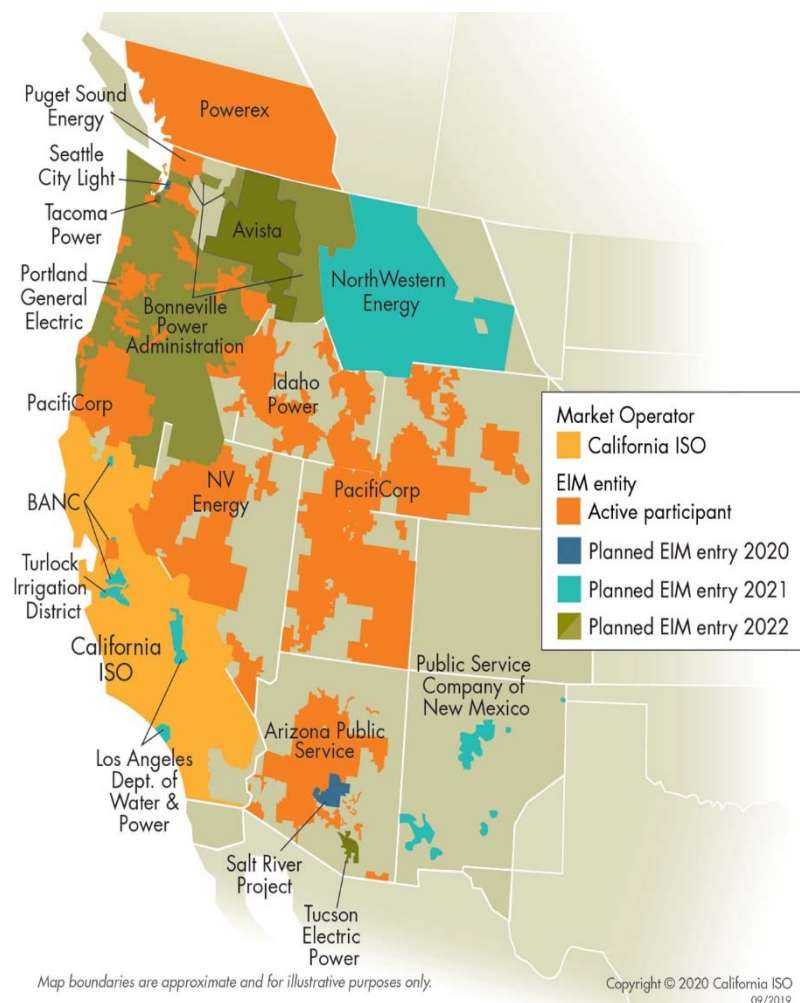
74%
REDUCTION

2,701 MW

(1) Adjusted for re-rating of coal plants between December 31, 2013, and December 31, 2019, including plants still in operation and retired

Energy Imbalance Market

Provide Customer Savings and Carbon Reduction



- The energy imbalance market is an innovative market that allows utilities across the West to access the lowest cost energy available in near real-time, making it easy for zero-fuel-cost renewable energy to go where it's needed and reduce carbon emissions. Through December 2019, cumulative benefits totaled \$862 million
- PacifiCorp and California ISO launched the EIM in November 2014. NV Energy joined in December 2015. Berkshire Hathaway Energy cumulative customer benefits total \$324 million

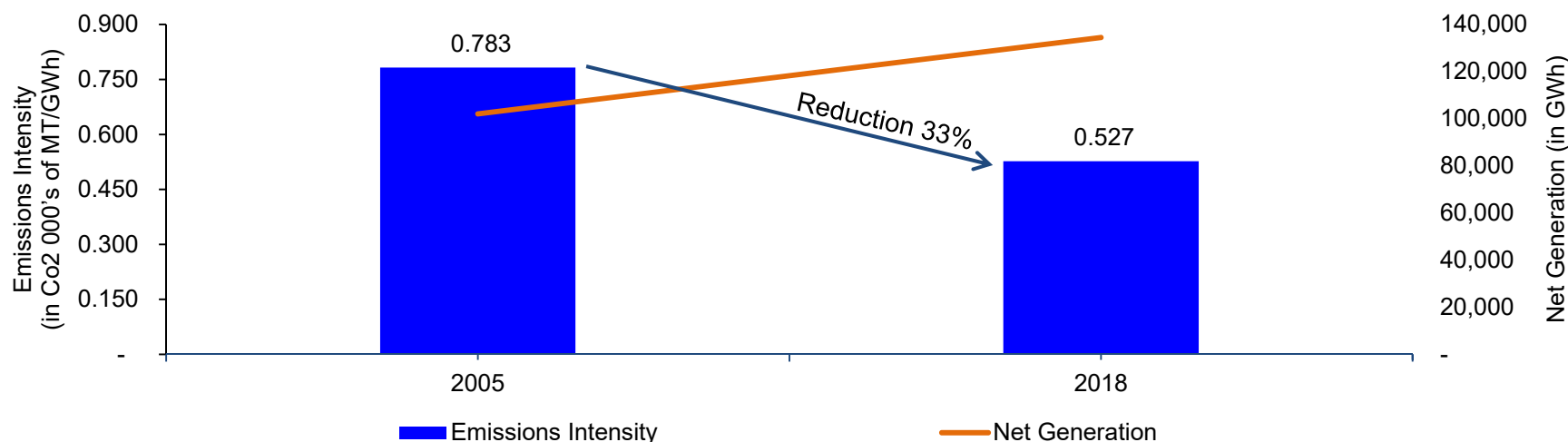
November 2014 – December 2019 Customer Benefits

Balancing Area Authority	Total (\$ millions)
CAISO	\$191.9
PacifiCorp	\$235.3
NV Energy	\$89.0
Arizona Public Service	\$140.3
Puget Sound Energy	\$41.3
Portland General Electric	\$73.3
Idaho Power	\$55.1
Powerex	\$19.8
BANC/SMUD	\$15.9
Total	\$861.9

CO₂ Emissions Intensity

	2005 ⁽¹⁾ ⁽²⁾				2018 ⁽²⁾		
	CO ₂ Metric Tons (000's)	Net GWh	MT (000's) / GWh		CO ₂ Metric Tons (000's)	Net GWh	MT (000's) / GWh
PacifiCorp	49,001	58,221	.842		43,248	61,509	.703
MidAmerican Energy	18,380	22,856	.804		16,216	34,249	.473
NV Energy	10,792	14,358	.752		10,872	26,843	.405
BHE Renewables	1,702	6,631	.257		505	11,852	.043
Berkshire Hathaway Energy	79,875	102,066	.783		70,841	134,453	.527

Berkshire Hathaway Energy

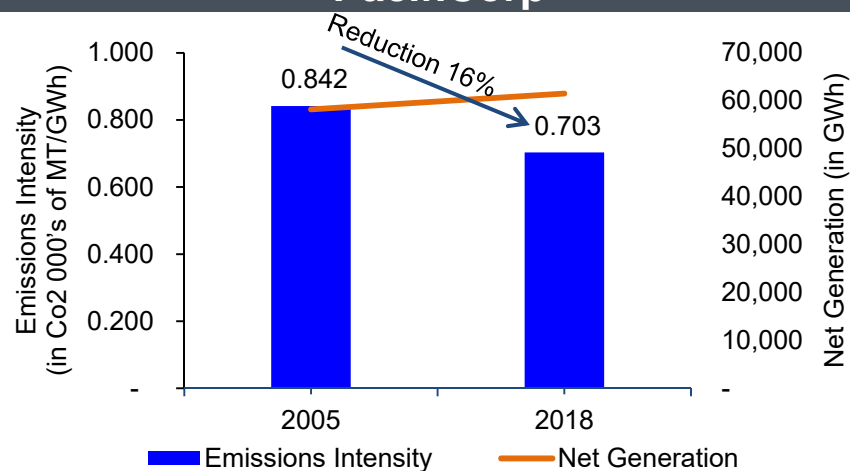


(1) 2005 data is pro forma as if all energy businesses owned today were owned in 2005

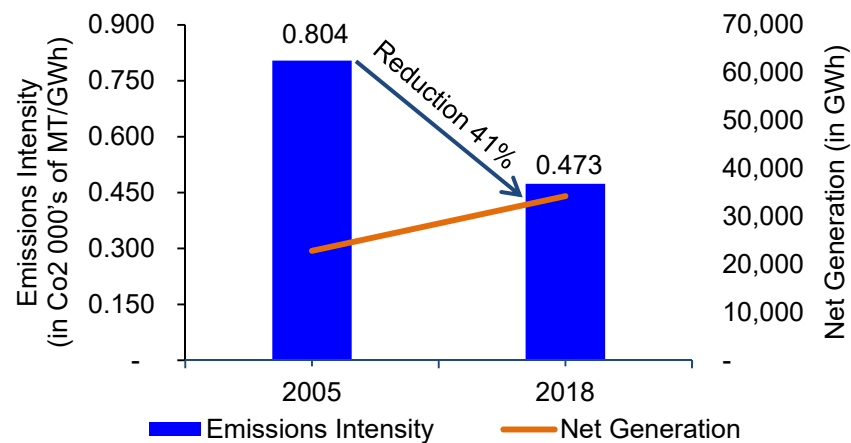
(2) The data provided includes generation associated with renewable energy credits which were not retained, and excludes generation and emissions related to market purchases from non-specified sources

CO₂ Emissions Intensity

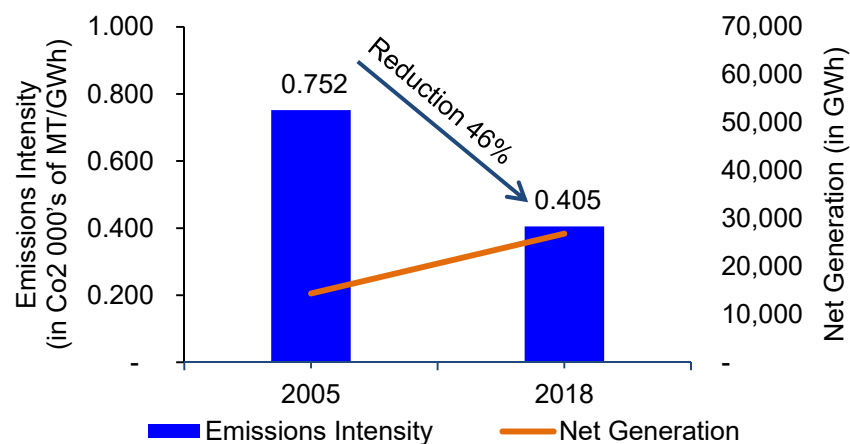
PacifiCorp



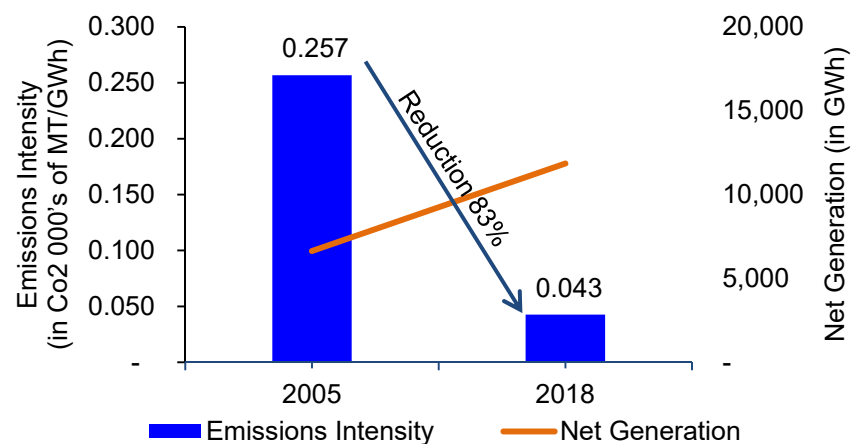
MidAmerican Energy



NV Energy



BHE Renewables



Electric Vehicle Infrastructure

MidAmerican Energy

- In July 2019, MidAmerican Energy announced an electric vehicle charging station network launch in 15 urban and rural communities across Iowa, which includes two charging plugs per station
 - To further promote electric vehicle adoption in Iowa, in 2019, MidAmerican Energy started offering electric vehicle and charging station rebates to its customers. The company provides rebates to residential customers who buy or lease a new electric vehicle and rebates to businesses that purchase Level 2 charging stations, which generally charge electric vehicles in four to eight hours

PacifiCorp

- Rocky Mountain Power is investing to develop electric transportation primarily in Utah and has developed one of the largest comprehensive utility electric vehicle programs in the country to install EV fast chargers and workplace chargers. In addition, the company has deployed the most traveled electric bus route in the U.S. and developed electric ride hailing programs with LYFT
- Pacific Power is investing to develop electric transportation programs in Oregon, Washington and California, including EV fast charging in underserved key areas and interest and engagement in non-residential charging across all service areas; and creating partnership opportunities with community grants and larger-scale transit funding

NV Energy

- The company is investing in and supporting electric vehicle incentive programs that support the expansion of electric vehicle infrastructure in Nevada
 - The Public Utilities Commission of Nevada has authorized incentives for multifamily, workplace, fleet and public charging infrastructure programs
 - Incentives include rebates for Level 2 and direct current fast chargers
 - The company, in partnership with the Nevada Governor's Office of Energy, is providing incentives for construction of fast-charging infrastructure along highway corridors throughout Nevada
 - The company is authorized to incentivize the electrification of public school bus fleets and charging infrastructure



Social

Workforce and Diversity

- We are committed to attracting and retaining the best employees and supporting an environment that reflects the diversity of our communities
- We are focused on providing a positive employee experience through our engagement, training and development programs

Safety Management

- Keeping our customers, employees and communities safe and secure will always be our top priority
- Based on July 2019 Edison Electric Institute data for electric and gas combination companies without nuclear employees:
 - The 2018 median recordable incident rate was 1.20 (50th percentile)
 - Berkshire Hathaway Energy's 2018 recordable incident rate was 0.56 (15th percentile)

Customer Engagement

- Our U.S. regulated utilities have low-cost competitive rates below the U.S. national average, benefiting customers and supporting growth and job opportunities in the communities served
- BHE Pipeline Group was No. 1 for the 15th consecutive year in Mastio and Company's 2020 survey of natural gas pipeline customers



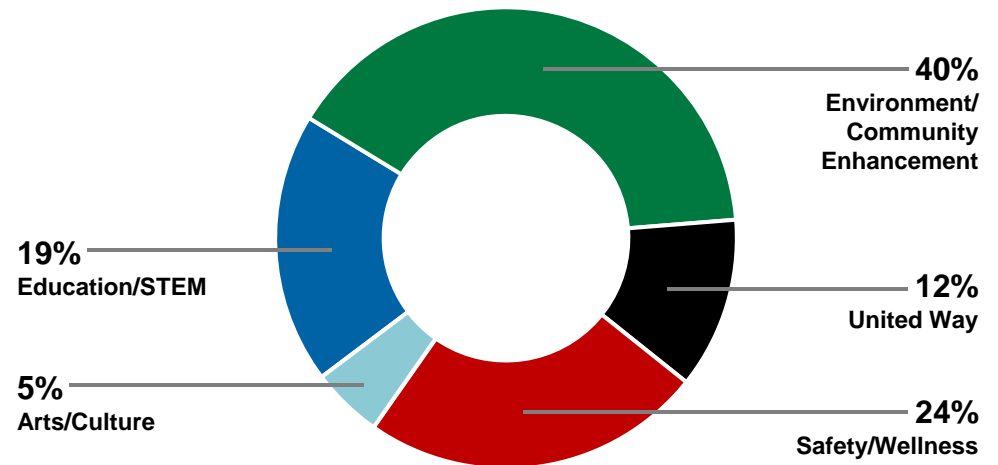
Social

In Our Communities

- Berkshire Hathaway Energy and its businesses sponsor organizations that provide resources to underserved populations; participate in community service projects; volunteer in local schools to educate parents and children on safety and energy efficiency; and raise funds for numerous charitable organizations to increase the impact we have on the communities we serve and support

WE'RE MAKING A DIFFERENCE

\$24 million in total giving (2019)
MORE THAN 68,000 HOURS VOLUNTEERED



Governance

Organization

- Berkshire Hathaway Energy's vision is to be the best energy company in serving our customers, while delivering sustainable energy solutions. Our businesses operate with that a shared vision, culture and set of core principles
- Our board of directors own or represent entities that own 100% of Berkshire Hathaway Energy's common stock and we believe this ownership structure supports our strong corporate governance



Board Member	Role	Years on Board
Gregory Abel	Executive Chairman of the Board	2000-Present
William Fehrman	President, CEO and Director	2018-Present
Walter Scott Jr.	Director	1991-Present
Warren Buffett	Director	2000-Present
Marc Hamburg	Director	2000-Present

- Our privately held ownership structure is a major source of financial strength and a competitive advantage. We have historically not paid dividends allowing us to reinvest 100% of net income back into our businesses to better serve customers and focus on system hardening

Governance

Codes and Values

- We uphold the highest ethical standards and values through the Berkshire Hathaway Code of Business Conduct and Ethics. We believe a diverse workforce brings significant benefits to our organization. Additionally, we hold our organization accountable to provisions we include in the Berkshire Hathaway Energy Code of Business Conduct. These provisions demonstrate how to approach work, business relationships, decisions, and actions and include:
 - Treating customers with honesty, respect and dignity
 - Dealing fairly with customers, suppliers and competitors
 - Maintaining confidentiality of information
 - Full, fair, accurate, timely and understandable financial disclosures
 - Zero-tolerance policy on any type of harassment or behavior that is hostile, disrespectful, abusive or humiliating
 - Commitment to a safe and healthy environment for all employees



Data Protection

- Berkshire Hathaway Energy is vigilant in managing employee and customer data to protect against the release of any sensitive information, creating strong layers of defense against cyber and physical security incidents. We use internationally recognized cybersecurity frameworks to strengthen these efforts

Transparency and Reporting

- We are transparent in our operational results and voluntarily report key indicators related to our emissions data, resource mix, investments in technology, water resources, waste products, employee count, and safety performance

Chief Sustainability Officer

- Continuing to focus on providing enhanced ESG initiatives at Berkshire Hathaway Energy

