Our state is in a better starting position than much of the country

Solar and wind pricing has become more competitive with traditional generation

The industry is focused on solutions that enable more clean energy integration

A clean energy future involves more than renewable generation
Clean, Low Cost, Reliable Power

United States Generation Mix in 2018

- **Natural Gas**: 35%
- **Coal**: 27%
- **Nuclear**: 19%
- **Wind**: 7%
- **Solar**: 2%
- **Biomass**: 2%
- **Hydro**: 7%

*Estimated generation in 2018 (www.eia.gov)

**ELECTRICITY GENERATION RESOURCE MIX**
As of Dec. 31, 2018
Excludes AEL&P

- Natural Gas 34%
- Coal 9%
- Wind 4%
- Biomass 2%
- Hydro 51%
  - (42% Avista & 9% Contracts)
- Solar 2%
- Biomass 2%

*Based on maximum capacity
Avista’s goal is to serve our customers with **100 percent clean electricity by 2045** and to have a **carbon-neutral** supply of electricity by the end of **2027**

- We will maintain focus on reliability and affordability as we make decisions
- Natural gas is an important part of a clean energy future, both for generation capacity and for direct use
- Technologies and associated costs need to emerge and mature in order for us to achieve our stated goals
- It’s not just about generation – all kinds of solutions are necessary
Avista Renewable Choices

2002 Buck-A-Block

2015 Solar Concierge

2015 Community Solar I

2018 Solar Select I

Future Plans – In progress
Community Solar

A voluntary program provides customers the choice to go solar without onsite installation or long term commitment.

423 kW array on Barker in Spokane Valley

Fully subscribed (650 participants) – 5 year term

Performance is 12% above projection
Solar Select for Commercial Customers

SOLAR SELECT®

28 MW ARRAY IN LIND, WA

25X SIZE OF NEXT LARGEST ARRAY IN THE STATE

$ ZERO PREMIUM TO AVISTA CUSTOMERS

8 YEAR TERM AlIGNED WITH STATE INCENTIVE
Avista to Double Wind Generation Next Year

RATTLESNAKE FLAT

142 MW WIND FARM IN ADAMS COUNTY, WA

MORE THAN DOUBLE AVISTA’S WIND GENERATION IN PORTFOLIO

PRICE IS LESS THAN HALF OF CURRENT WIND CONTRACT INSTALLED IN 2012
Energy Industry is Preparing for Renewables
It's More than Generation... Shared Energy Economy

- Economic Value Optimization for Distributed Energy Resources
- Customer Participation Model
- Resilience
- Research Platform
It’s More than Generation… Eco-District

- Central Plant with Storage
- Cross Laminated Timber
- Integrated Test Facility
- Power Industry Center of Learning
Comprehensive Approach to Clean Energy

- Smart Grid Automation
- Community Solar Project
- Electric Vehicle Charging Pilot
- WA Advanced Metering Infrastructure

- Grid Edge 1: 2014
- Grid Edge 2: 2016
- Grid Edge 3: 2018

- Smart City Collaborative
- Battery Storage Project in Pullman
- Shared Energy Economy Pilot
- University District’s South Landing Eco-District

- Clean Energy Fund I
- Clean Energy Fund II

- Urbanova
- Vista
Scaling up to 100%: A Utility’s Perspective

Jason Thackston
Senior Vice President, Energy Resources

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