



The Future of Energy

Heather Rosentrater, PE
President and Chief Operating Officer

How did we get **here**?

Where are we **now**?

Where are
we **heading**?

A black and white photograph of a large industrial dam or power plant structure. The dam is a multi-story building with many windows, situated in a deep valley. A river flows through the dam, creating a large splash of white water. In the background, there are more industrial buildings and a hillside. The text "How did we get here?" is overlaid in white on the lower right part of the image.

How did we get here?

- 1977** **Established Itron**
- 1983** **First biomass plant in US to generate electricity from wood waste**
- 1991** **Developed first client-server CIS**
- 1995** **Established Ecova (sold to GDF Suez)**
- 1996** **Established Avista Labs/Reli-On fuel cell company (sold to Plug Power)**
- 2001** **Developed the first GIS based OMS**
- 2009-13** **Three ARRA smart grid grants**
- 2015** **Largest vanadium flow battery in North America and Europe**





Where are we now?



Avista Electric and Natural Gas Service Areas

Electric ■
Natural Gas ■
Electric and Natural Gas ■



1

How much of Avista's electricity comes from hydropower generation?

A. 25%

B. 73%

C. 48%

CORRECT

D. 97%









The background is a dark, abstract composition featuring numerous light trails. On the left, several bright red lines streak diagonally across the frame. On the right, blue and white lines radiate outwards from a central point, creating a sense of motion and depth. A horizontal band of yellow and white light stretches across the middle of the image, suggesting a horizon or a path. The overall effect is one of dynamic energy and forward movement.

Where are we heading?





An aerial photograph of a residential neighborhood. In the foreground, a house is under construction, showing its wooden frame and roof trusses. A green tractor and a red pickup truck are parked nearby. A paved road curves through the middle of the image. To the right of the road, there is a large area of dirt and construction materials. In the background, many completed houses with grey roofs are visible, along with some trees and a clear sky.

Challenges to overcome

2

In the 1970's, the cost to install a new transformer in a substation was approximately \$63,000.

Today, how much does a new substation transformer cost?

A. \$170,000

B. \$500,000

CORRECT

C. \$63,000

D. \$772,000





Efforts to ban natural gas



3

How many square miles would it take to build enough solar resources to electrify 80% of our current WA and ID gas customers?

- A. 20 sq. miles
- B. 75 sq. miles
- C. 440 sq. miles
- D. 167 sq. miles

CORRECT





Opportunities for
customers and community



Next steps.
We're here to help.

The background is a dark blue to purple gradient, filled with numerous colorful bokeh circles in shades of yellow, orange, pink, and blue. These circles are arranged in a way that suggests motion, with many appearing as streaks or trails that curve from the bottom left towards the top right. The overall effect is one of dynamic energy and light.

How
might?
we ■

 **AVISTA**®