# Gigaton Spotlight: Mosaic Power

How AT&T connectivity expertise enables emissions reduction and business value

## About Mosaic Power

A family-owned business in Maryland that operates a Whole Home Efficiency Network (WHEN), which optimizes energy use for residential devices, specifically electric hot water heaters.

## Gigaton Pathway: Smart Buildings

- Mosaic Power installs load control devices in residential water heaters that enable the company to adjust power usage in response to real-time grid conditions. This allows Mosaic Power to heat water when the grid has a surplus of power, which enhances energy efficiency and reliability and reduces emissions because there is less of a need to turn on polluting peaking power plants.
- Projects operated by Mosaic Power have installed and controlled over 25,000 water heaters on more than 100 multi-family properties to date.
- The company is set to integrate thousands of additional water heaters into its network.

## Mosaic Power is contributing to AT&T's Gigaton Goal

- Heating water with surplus electricity reduces emissions by 1.6 metric tons annually per device.
- Mosaic Power is saving 40,000 tons in annual emissions and has generated over $2 million in returns for property owners.
- With an estimated 40 million electric water heaters in the U.S., the potential for widespread adoption of this technology, powered by AT&T's connectivity, is immense.

## Connectivity helps enable Mosaic Power's success

- Water heaters are linked to the grid dispatcher via a mesh network to cellular modems. This is made possible by AT&T connectivity. The company helped Mosaic Power identify the best solution for their needs and also provides tools to help manage the connectivity easily and dynamically.
- The performance of each device is monitored 24/7 and Mosaic Power receives indicators of grid supply and demand every two seconds.
- The work with Mosaic Power is an example of AT&T seizing business opportunities with innovative customers and industries that help to address environmental challenges.