

Laurie Vaudreuil CEO

Water Heater Efficiency Network (WHEN)



- Fast regulation
- Load shifting
- Peak load reduction

Making WHEN energy is used efficient with existing electric water heaters

Bring Your Own Water Heater

- existing waterheaters any age
- no replacement necessary
- ♦ 30+ gallon
- 2 heating elements
- **♦** ELECTRIC!



Mosaic adds a load controller on the electric line to each water heater

Our PJM Business Model

- Mosaic contracts with multi-family property owner
- Mosaic pays hardware and installation costs
- Heater owner receives flat annual payment
- Mosaic trades in PJM markets

Currently

~6,600 water heaters capable of regulating more than 6 MW24 hours a day, 365 days a year

How We Work in PJM Today*

- ◆1,500 2,000 heaters per MW regulation
 - 1 MWh of storage
 - ◆2 MW of fast response demand
- Initial investment
 - Hardware + Installation
 - ◆ Sales
 - Licensed electrician + Mosaic supervisor
- Operations
 - Water heater energy management
 - Customer and hardware support and maintenance
 - Customer cash incentive

How We're Different

- ◆ Bring-your-own-water-heater
- Perfect fit for affordable housing
- Contracts negotiated with water heater owner rather than tenant
 - ◆ Tenant has very easy opt-out with no penalty
- Not limited to discrete events; continuous energy management
 - ◆ Tenant hot water availability is prioritized
 - Uses tenant usage history and predictive analytics to maintain hot water at all times
 - Opt-out rate well below ½%
- Certified, revenue-grade meter

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