Innovation >> Action





Transforming the Gas Water Heating Market

Agenda

- NEEA overview
 - Natural Gas
- Opportunity
- Activities
- EHPWH Lessons Learned
- Roadmap
- Q&A





The Northwest Energy Efficiency Alliance (NEEA) is a nonprofit organization working to effect market transformation through the acceleration and adoption of energy-efficient products, services and practices. NEEA is an alliance of more than 140 Northwest utilities and energy efficiency organizations working on behalf of more than 13 million energy consumers.

Together We Are Transforming the Northwest

























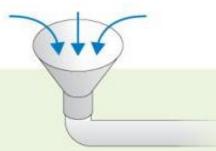








How NEEA Accelerates Energy Efficiency



Fill The Energy
Efficiency Pipeline



Accelerate Market Adoption



Leverage the Power of the Region



Natural Gas Funders





In the Community to Serve®









Objective: Accelerate development and market adoption of efficient natural gas products, practices and services...

Opportunity

Type	Advertised Efficiency Rating	Estimated Minimum	Estimated Maximum
Tankless	98%	\$4,000	\$5,000
Tankless Hybrid	90%	\$4,500	\$5,000
Tankless	82%	\$3,500	\$4,500
Gas Water Heater	96%	\$3,500	\$4,500
Natural Vent Water Heater	58% to 67%	\$1,000	\$1,925

Storage Water Heaters	Dec '15 YTD	Dec '14 YTD	%Chg.
Residential Storage Gas	4,374,199	4,471,903	-2.2
Residential Storage Electric	4,027,067	4,227,329	-5.9

130% EF ~\$2500





Opportunity

- Current high efficiency gas water heaters offer unattractive value propositions
 - Electric water heaters have highly efficient, cost effective options
- Gas heat pump technology offers significant gas savings
- Provides wins for gas utilities, gas consumers and trade allies alike



Opportunity

- Product development complete
- Field studies complete it works
- 1.2-1.3 EF
- Prepared for OEM partners



Activities

- Technical, market, and marketing consultative support
- Energy Efficiency community coordination
- Supply chain communication, coordination, and education
- Product development, testing, and launch acceleration



Electric Heat Pump Water Heaters



SPECIFICATION DEVELOPMENT AND EVOLUTION

PRODUCT
DEVELOPMENT
ACCELERATION





REGIONAL TECHNICAL TRAINING

UTILITY PROGRAM DEVELOPMENT & SUPPORT

CONSUMER AWARENESS

QUALITY ASSURANCE



RETAIL PLACEMENT & PROMOTION

SUPPLY CHAIN COLLABORATION





LAB & FIELD TESTING

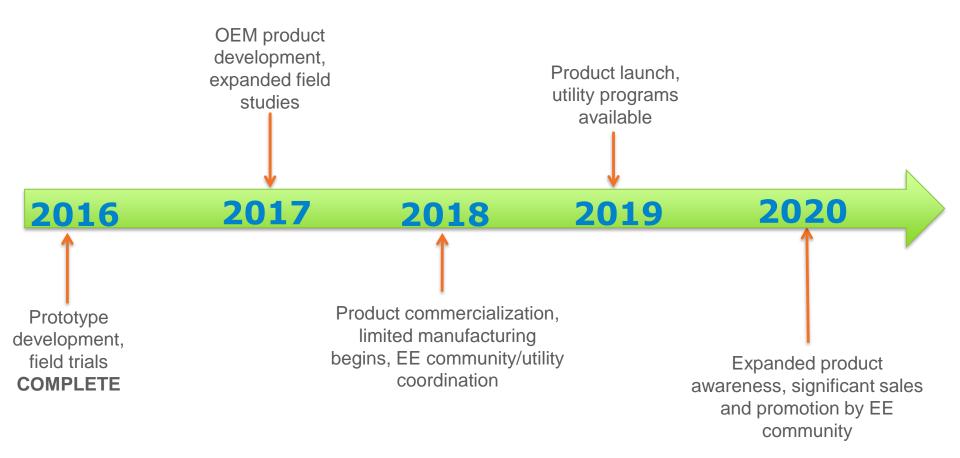
2009 2010 2011 2012 2013 2014 2015 2016

Electric Heat Pump Water Heaters Lessons Learned

- Manufacturer guidance should be flexible and inclusive
- Demonstrating long term value proposition is crucial to achieving supply chain commitment
- National alignment and support provides market stability
- Small = nimble but risky
- Widespread buy-in, constant reinforcement required
- Upstream/midstream incentives move the most units



Roadmap



Ready to accelerate?





EE organizations are the drivers!

Questions?

Aaron Winer

SENIOR PROGRAM MANAGER, NATURAL GAS
Direct 503.688,5468

NORTHWEST ENERGY EFFICIENCY ALLIANCE
421 SW Sixth Avenue, Suite 600, Portland, Oregon 97204

awiner@neea.org | neea.org