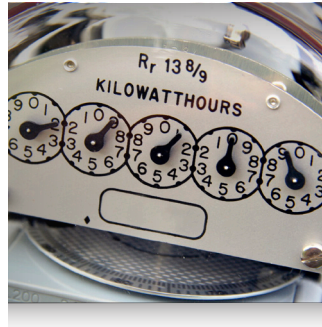


Residential

NEEA accelerates the delivery and adoption of energy-efficient products, practices and services. NEEA accomplished this in the residential sector between 1997 and 2009 through the following former NEEA residential initiatives.



- **ENERGY STAR Homes Tier 1 (2005–2009):** NEEA helped adapt and advance the Federal ENERGY STAR Homes' specifications to align the federal specification with the market progression in the Northwest.
- **Energy Codes Single Family (1997–2009):** NEEA influenced the adoption of more stringent codes in single family homes by participating in the state and federal code adoption processes and providing education and training to the market.
- **Lighting General:** NEEA's ENERGY STAR residential lighting initiative accelerated the market adoption of residential ENERGY STAR lighting products, specifically targeting technologies such as the screw-based compact fluorescent lamps (CFLs), indoor and outdoor fixtures and portable lamps. NEEA accelerated the adoption of CFLs by working with the region to increase product performance, availability, affordability and increasing consumer awareness.
- **Lighting Fixtures:** NEEA accelerated product availability and market adoption of ENERGY STAR fluorescent residential light fixtures by partnering with its utility partners to facilitate product rebates to lower product cost, increasing retailer education and stocking practices, and increasing consumer demand through regional education and marketing.
- **Lighting Specialty:** NEEA collaborated with the region to develop and implement strategic market interventions that accelerated the market adoption of specialty (non-twister) ENERGY STAR compact fluorescent lamps.
- **Dishwashers:** NEEA accelerated the market adoption of ENERGY STAR dishwashers by partnering with manufacturers, retailers and regional utilities to increase the availability and consumer awareness of these products.
- **Refrigerator (current ENERGY STAR over federal standard baseline):** NEEA leveraged its relationships with retailers to accelerate the market adoption of ENERGY STAR refrigerators as part of a "white goods" strategy to increase market awareness of ENERGY STAR "white goods" appliances such as refrigerators and dishwashers.
- **Clothes Washers (above Modified Energy Factor 1.43):** NEEA influenced more stringent efficiency standards for clothes washers and accelerated market adoption by partnering with manufacturers, utilities and retailers to increase availability and increase consumer demand through targeted public outreach and marketing campaigns.
- **Super Good Cents Manufactured Homes:** NEEA partnered to create a self-sustaining, market supported Super Good Cents (SGC) Manufactured Homes certification and quality assurance program throughout the region to provide a quality assurance structure within the market and accelerate the market adoption of SGC homes throughout the Northwest.
- **Windows:** NEEA accelerated the market adoption of high-efficiency ENERGY STAR residential windows by working with manufacturers and retailers to increase availability and increase consumer demand through strategic marketing campaigns with manufacturers.
- **Other Residential Codes (Multi-family) (1997–2009):** NEEA influenced the adoption of more stringent codes in multi-family homes by participating in and providing technical data throughout state and federal code adoption processes and providing education and training to the market.
- **Other Residential Standards (1997–2009):** NEEA collaborated to leverage the market power of the Northwest's 12 million energy consumers to accelerate the market adoption of more stringent residential appliance and equipment standards at the regional and national level.

Commercial

NEEA accelerates the delivery and adoption of energy-efficient products, practices and services. NEEA accomplished this in the commercial sector between 1997 and 2009 through the following former NEEA commercial initiatives.



- **Commercial New Construction:**
NEEA accelerated the market adoption of energy-efficient commercial buildings by increasing the demand within the hospital/healthcare, office real estate and grocery sectors for highly energy-efficient commercial building design and expanding the capability of the market to meet this demand.
- **Building Operations (Non-target Markets):**
NEEA accelerated the market adoption of energy-efficient commercial buildings by increasing the supply of service providers with business models, product offerings and skills in high performance building operations maintenance.
- **Building Operator Certification:**
NEEA developed this regional certification program to educate building operator professionals on how to manage commercial building controls to reduce energy and operating costs.
- **80 PLUS (2005–2009):**
NEEA partnered with the 80 PLUS program to increase the availability of 80 PLUS power supplies by working with both manufacturers—such as Dell and Hewlett-Packard—to incorporate these power supplies into their products and the Environmental Protection Agency to include 80 PLUS power supplies into their specifications for desktop PCs.
- **Verdiem Network Energy Management:**
NEEA partnered with Verdiem, Inc. to commercialize this software that enables IT administrators to effectively control power management settings of desktop computers through network controls.
- **Grocery:** NEEA accelerated the adoption of energy-efficient building design and operations within the grocery market by working with regional grocery wholesalers and larger chain operators to increase the demand for these products and services while building the capacity of the market through education and training to meet this demand.
- **Energy Management Degree Program:**
NEEA developed this multifaceted program that offered a certification program for the professional energy management community, provide customized courses, support the training requirement of NEEA's initiatives and stimulate development of a network of training centers around the region.
- **Commissioning Public Buildings:**
NEEA helped make commissioning standard practice in public buildings in the Northwest by educating and building awareness of the value of commissioning, supporting the Building Commissioning Association and supporting projects like the commissioning certification.
- **Other Commercial Standards (1997-2009):**
NEEA collaborated with its utility partners to leverage the market power of the Northwest's 12 million energy consumers to accelerate the market adoption of more stringent commercial equipment standards at the regional and national level.
- **Other Commercial Codes (1997-2009):** NEEA influenced the adoption of more stringent codes in commercial buildings by participating in and providing technical data throughout state and federal code adoption processes and providing education and training to the market.



Former Initiatives-At-A-Glance

Industrial

NEEA accelerates the delivery and adoption of energy-efficient products, practices and services. NEEA accomplished this in the industrial sector between 1997 and 2009 through the following former NEEA industrial initiatives.



- Pulp and Paper:**
 NEEA sought to engage 10 pulp and paper mills in Continuous Energy Improvement, a framework developed that embeds strategic energy management into business and manufacturing operations.
- Drive Power:**
 NEEA partnered with the League of the Pacific Northwest to increase the region's motor fleet efficiency by influencing end-users to incorporate life-cycle analysis in investment decisions and helping motor service centers improve repair and motor management services.
- MagnaDrive Innovative Industrial Speed Control:**
 NEEA supported development and commercialization of technology that allows older motors to operate more efficiently through a magnetic industrial adjustable speed drive.
- Variable Frequency Drives:**
 NEEA accelerated market adoption of variable frequency drives, which allow evaporator fan motors to run at slower speeds, by funding pilot research and strategic market intervention strategies.
- BacGen Waste Water Optimization Service:**
 NEEA and BacGen Technologies, Inc. developed a method for reducing the energy consumption of small- to medium-sized wastewater treatment facilities with a proprietary mix of micronutrients and process control technologies.
- Pneu-Logic (SAV-AIR):** NEEA partnered with SAV-AIR, LLC on the Pneu-Logic SAV-AIR initiative, which delivered comprehensive compressed air management systems and engineering services to help customers control compressed air systems using sensors, computers and software.
- Microelectronics (Asimi, Silicon Crystal Growing Facilities):**
 NEEA targeted the microelectronics industry to accelerate the market adoption of more energy-efficient production furnaces used for manufacturing crystalline silicon for photovoltaic applications.
- Compressed Air Challenge Training:**
 NEEA developed and facilitated regional trainings which provided resources to educate industry on the opportunities to increase net profits and energy efficiency through compressed air system optimization.
- Distribution Efficiency Initiative (DEI):**
 Building on a BPA study, the region asked NEEA to coordinate a multi-state research effort to look at the savings potential of optimizing substation operations and introduce voltage regulation devices to residential customers.

Agriculture

- AM400 Data Logger:** NEEA helped accelerate the adoption of AM400, a soil moisture data logger that helps reduce the amount of electricity consumed for pumping water into fields, by conducting training and outreach.



Maximizing energy efficiency in partnership with:

