Attachment 1 NASUCA Presentation





About NEEA

- ffi Non-profit corporation; est. 1996 in Portland, OR ffi Funded by electric utilities in MT, ID, OR & WA
- ffi Governed by representative Board; public and private utilities, state governments, public interest groups; oversight by State utility

 Commissions
 - ffi Five-year funding commitment from 14 direct funders
 - ffi Total funding 2010 ~ \$30 million ffi 50 employees



Vision and Mission



Vision: Energy efficiency is a

cornerstone of a vibrant sustainable Northwest.

Mission: Mobilize the Northwest to become increasingly energy efficient for a sustainable future.



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NEEA's Unique Value

ffi Fill pipeline of emerging technologies

ffi Deliver regional leverage with "upstream" market actors

ffi Realize economies of scale

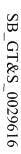
ffi "Lock in" savings through codes and standards

ffi Expand regional market capability

ffi Avoid resource duplication

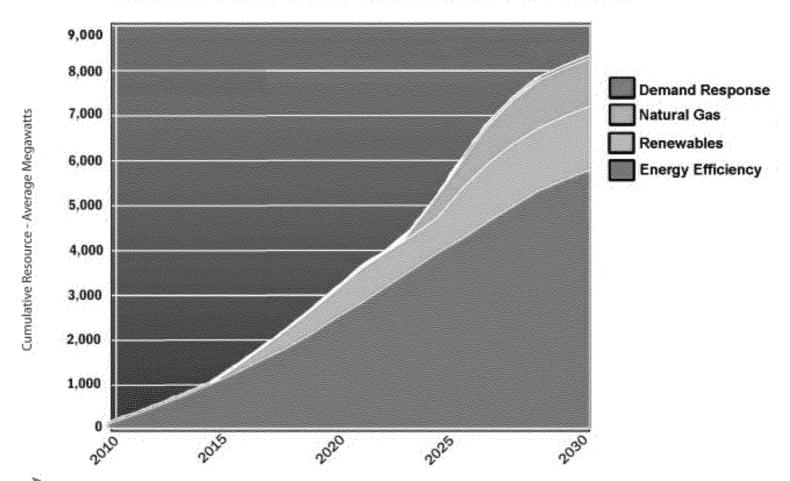
ffi Mitigate risk





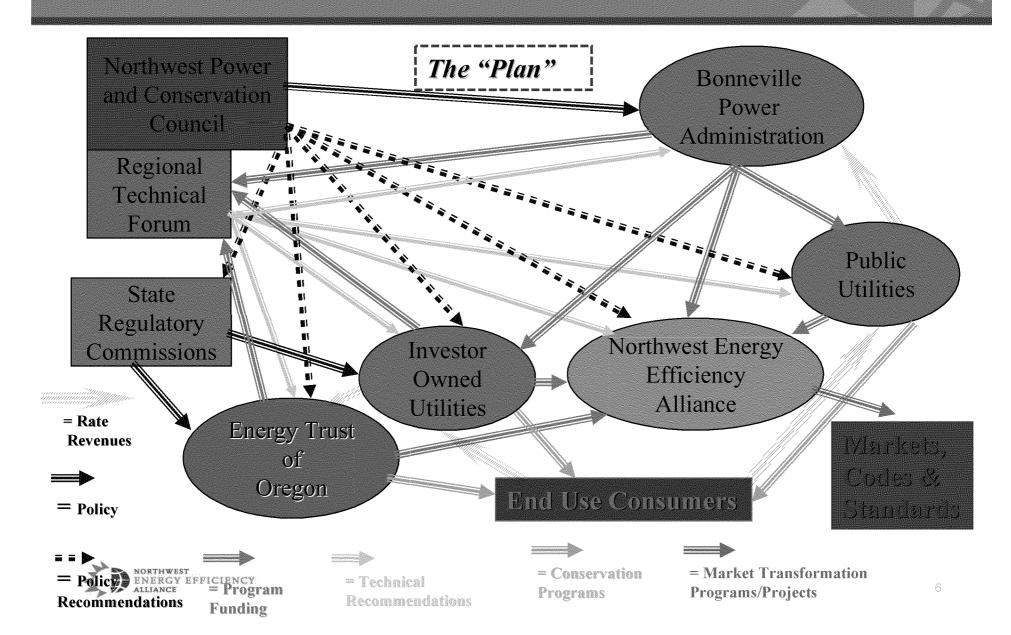
NW Power Future:

Sixth Power Plan Resource Portfolio*





Annual Northwest Energy Efficiency Investment

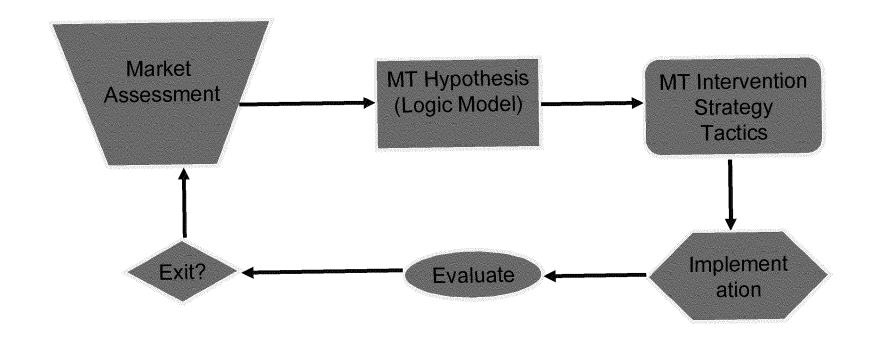


NEEA Definition of Market Transformation

"Market Transformation is the strategic process of intervening in a market to create lasting change in market behavior by removing identified barriers or exploiting opportunities to accelerate the adoption of all cost-effective energy efficiency as a matter of standard practice."



MT is a Process....

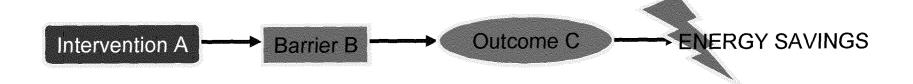




Market Transformation: Strategy Development

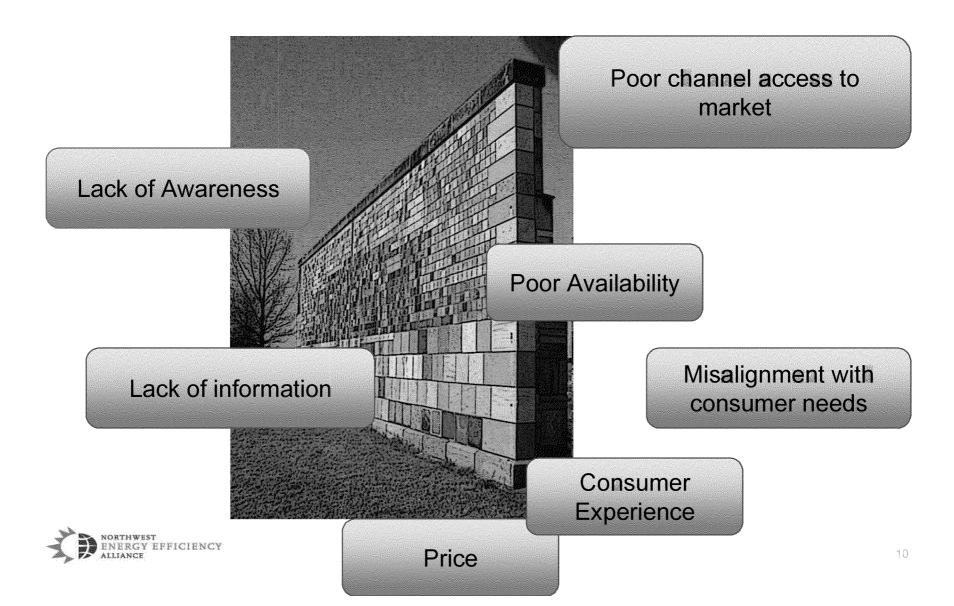
ffi The Logic Model:

ffi For each market barrier or opportunity:





Common Market Barriers



Market Transformation Strategies



Develop relationships that help influence energy codes and standards

Provide credible information

Build market knowledge and experience

Align EE with Consumer Needs

Create strategic partnerships



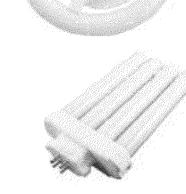
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Market Transformation in CFLs

From this:



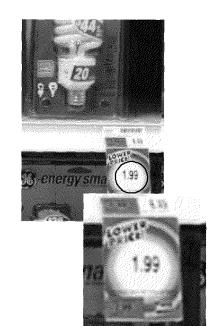






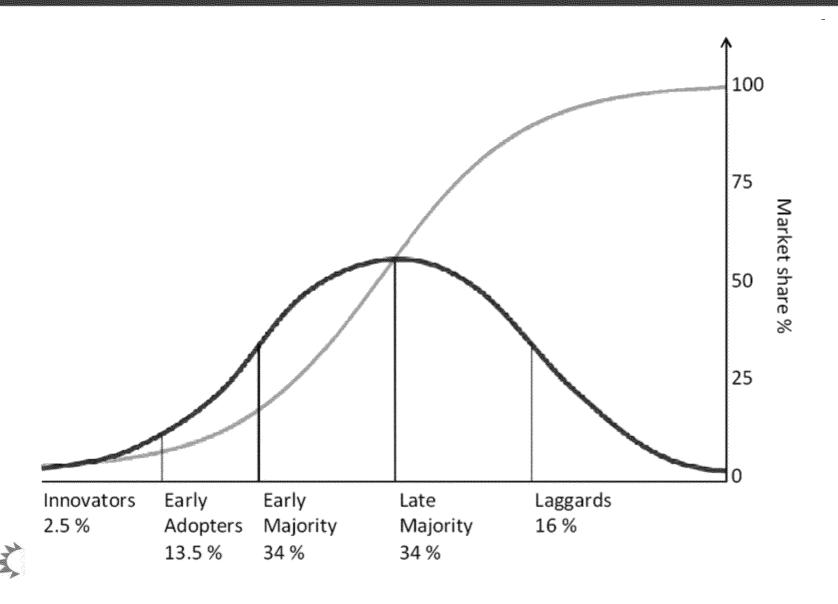




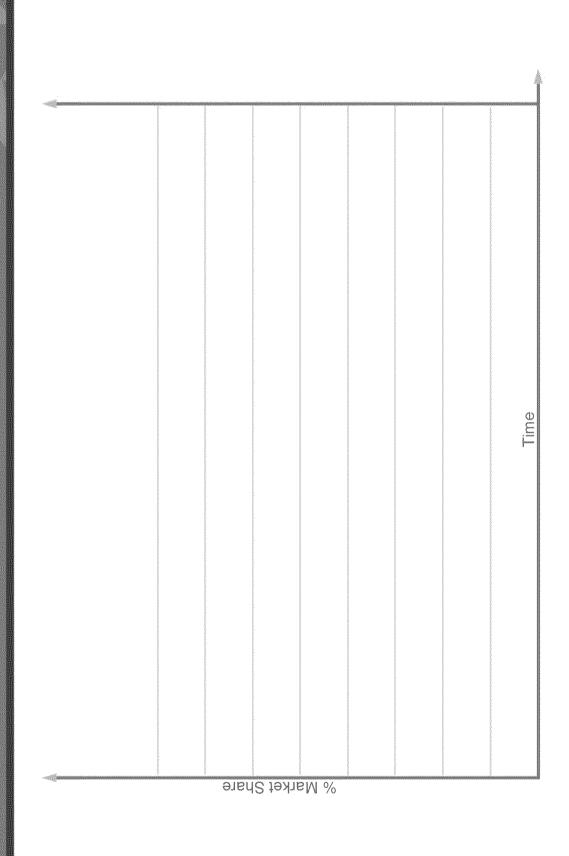


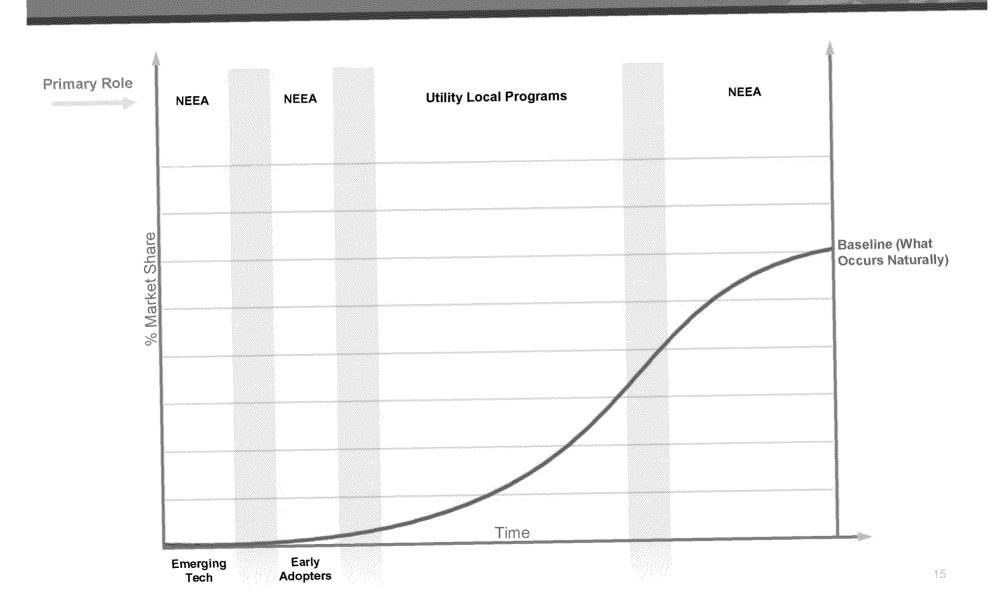


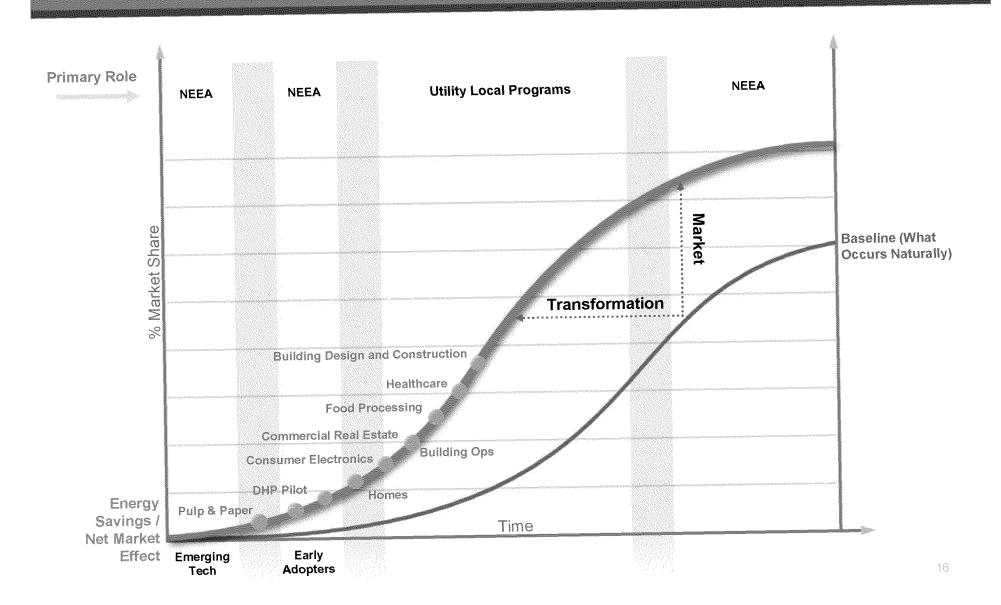
Diffusion of innovation Theory

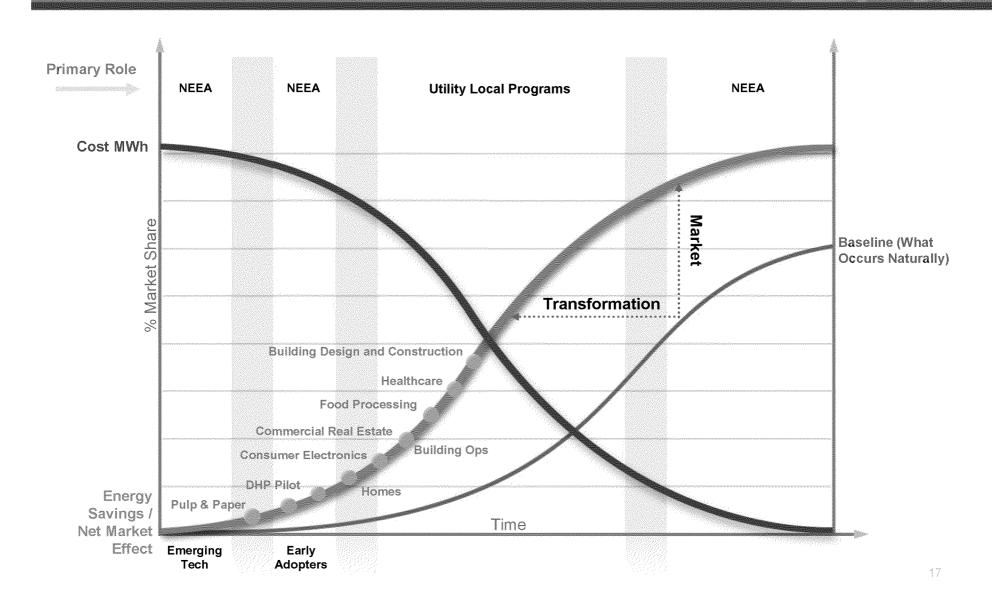


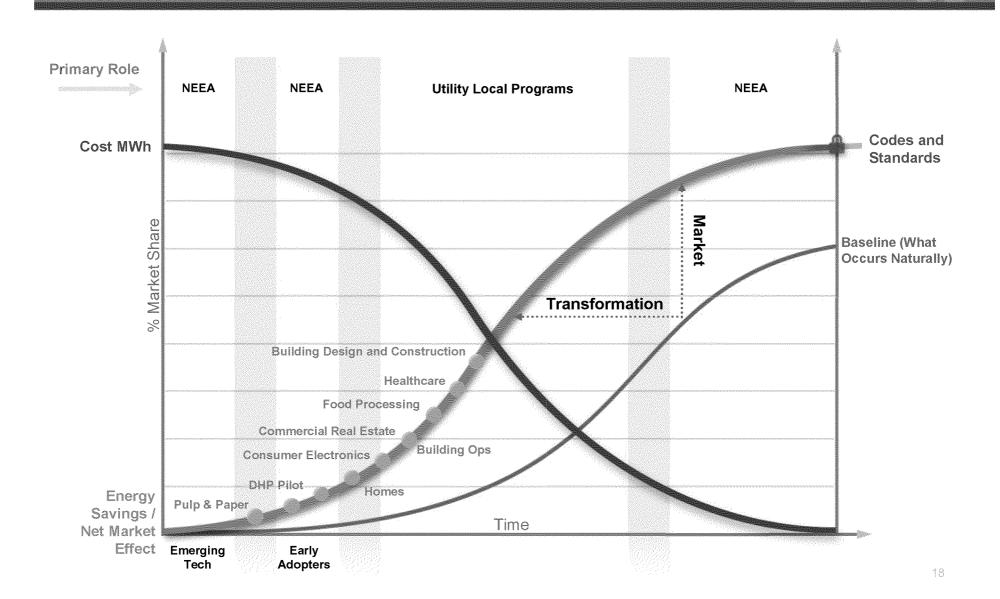




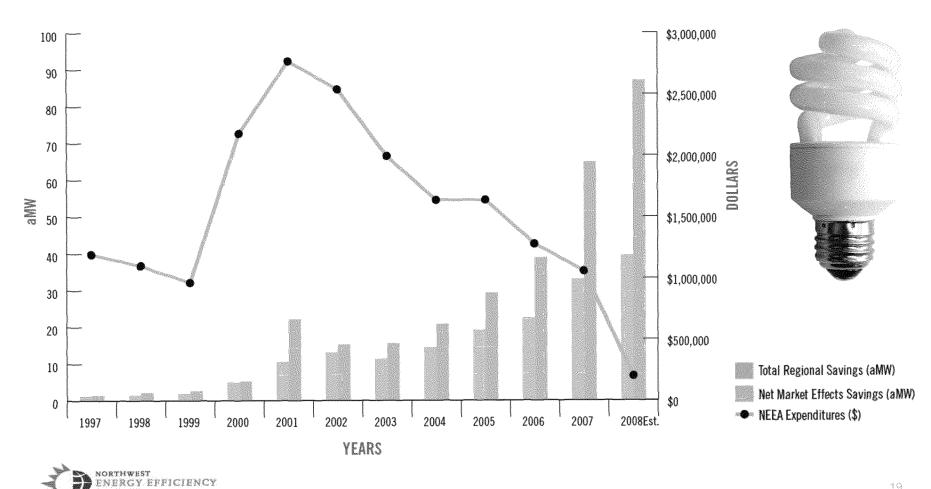








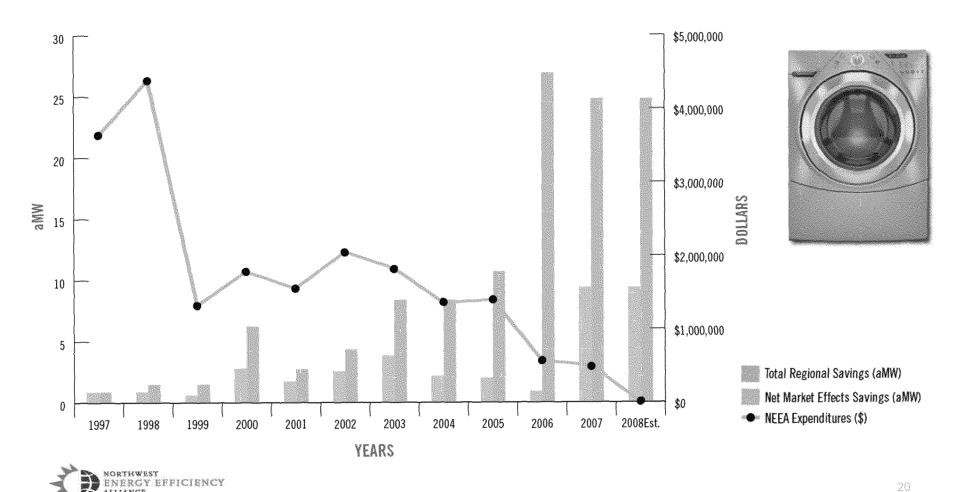
Market Transformation Success: CFLs



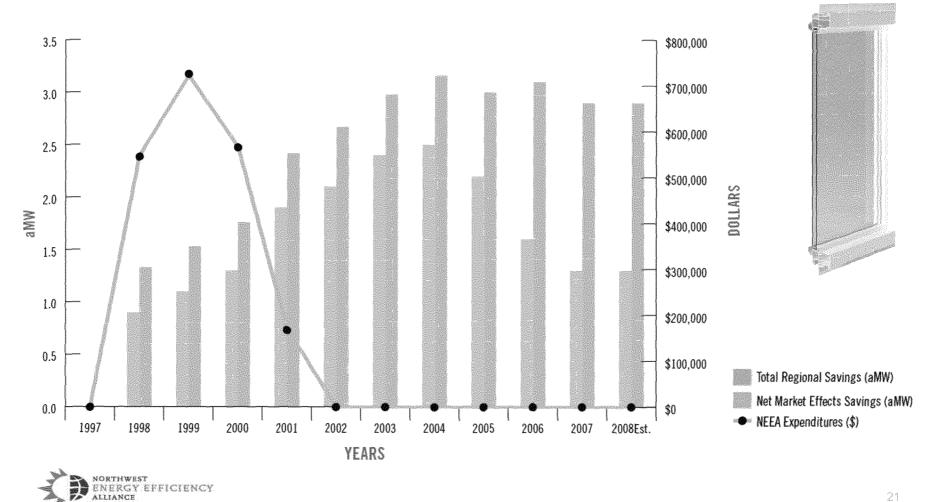
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Source: NEEA

Market Transformation Success: Clothes Washers



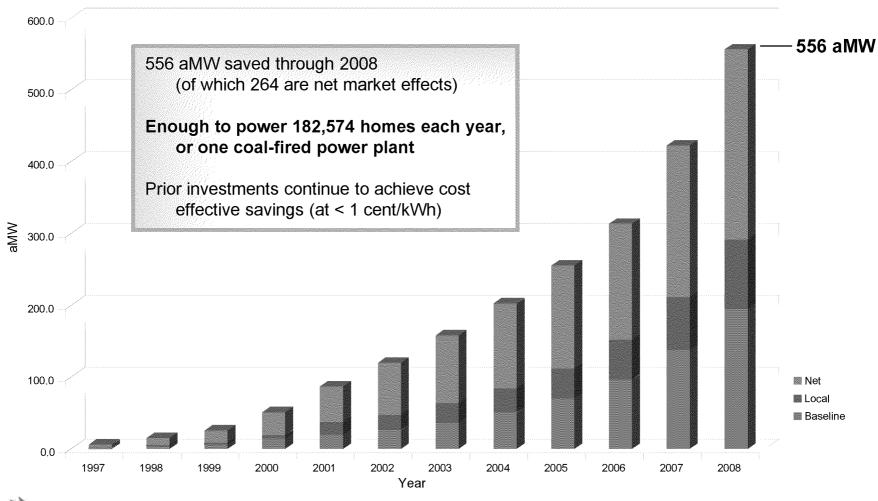
Market Transformation Success: Windows



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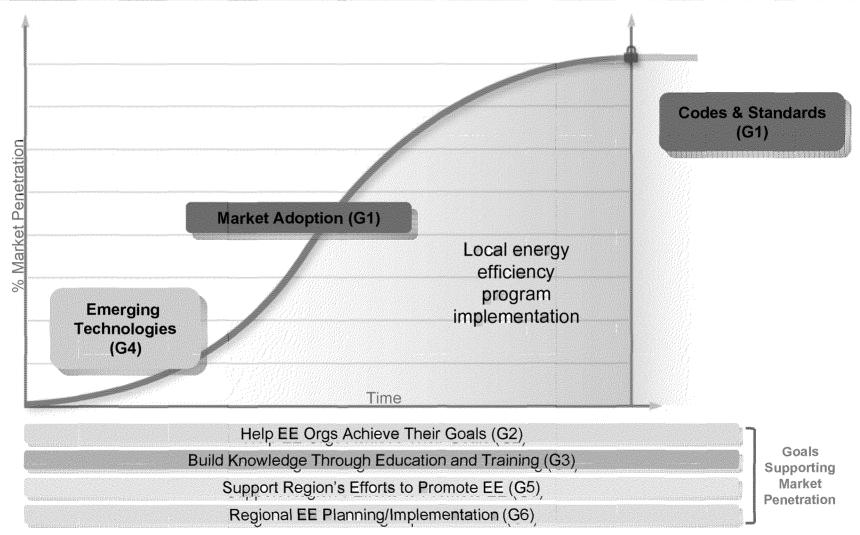
Source: NEEA

Market Transformation Results: Overall Significant Savings





Market Transformation Support Structures





M&V Challenges

- ffi Short term energy savings versus long-term market change
- ffi Metrics for market progress
- ffi Interim milestones
- ffi Data needs require market participation
- ffi Definition of Macro metrics; energy intensity versus absolute energy reduction



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Market Transformation Metrics: Consumer Products Examples

Interim Metrics

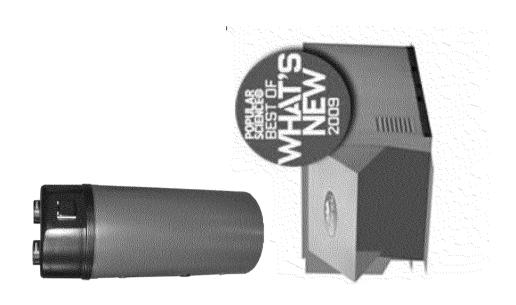
- ffi Shelf-space (availability)
- ffi Number of products (competition)
- ffi Channel distribution (availability, competition)
- ffi Consumer attitudes, intention to buy, reasons for not buying, etc.
- ffi Price

Macro Metrics:

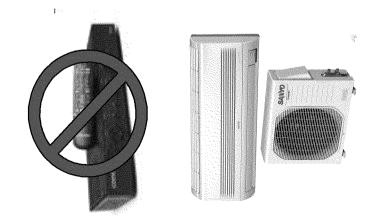
- ffi Market share (share of all functional equivalents sold)
- ffi Change in Code or Standard
- ffi Energy Intensity (kWh/unit or kWh/home for end-use)



transformation important for the future? Why you should care: Why is market









Why you should care (continued).

Net-zero buildings will require highly integrated energy efficiency systems and coordination between market actors to deliver buildings that actually perform at a level that is unprecedented; to do otherwise will be very expensive.....



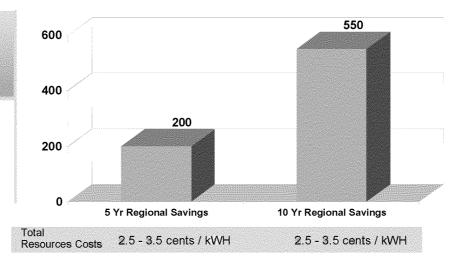




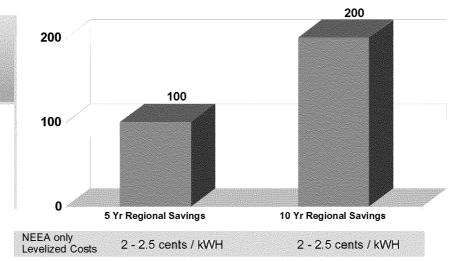
Thank You

2010-2014 aMW Savings Targets

Estimated 5 and 10 Year Total Regional Savings



Estimated 5 and 10 Year Net Market Effects



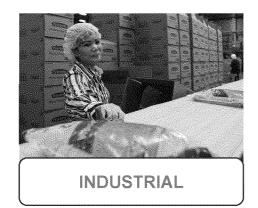




100 aMW is enough to power **69,000 homes each year**



How NEEA Works

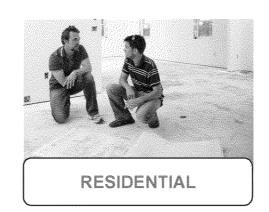








NORTHWEST ENERGY EFFICIENCY ALLIANCE

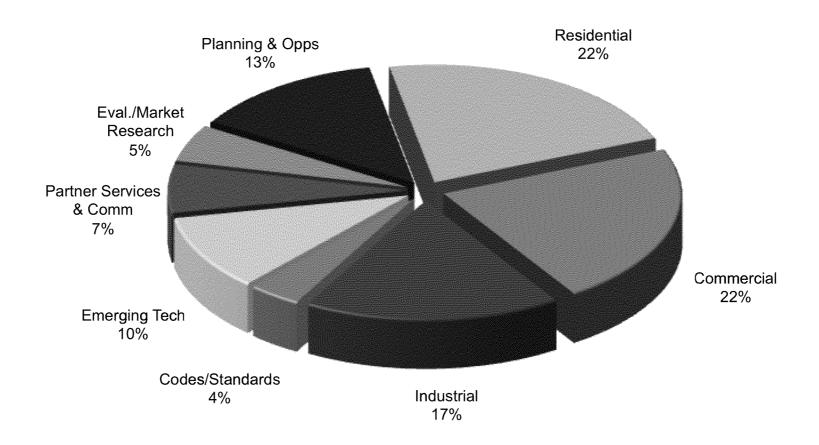








Estimated Budget Allocation: 2010-2014





Residential



Support and maintain a regional upstream delivery platforms for energy-efficient products and services

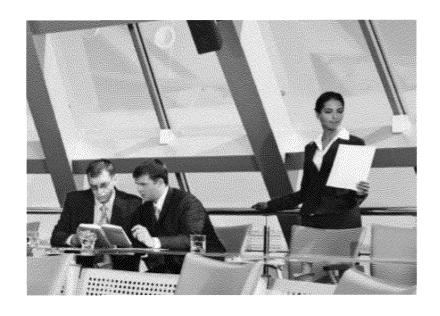
Key Initiatives:

- ffi New Construction reduce market barriers, influence voluntary programs/labels and set the stage for code upgrades
- ffi Consumer Electronics initial focus on flat-screen TVs
- ffi Ductless Heat Pumps pilot demonstrating energy savings potential
- ffi Lighting Continued focus on CFL purchase research
- ffi TopTen USA highlighting the most energy-efficient products



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Commercial



Simultaneously build demand for and supply of energy efficient products and services in select markets.

Key Initiatives:

- ffi Hospitals/Healthcare & Real Estate Helping organizations use Strategic Energy Management to become more energy efficient
- ffi Building Market Skills/Capacity provide resources, training and tools to design and building operations communities
- ffi 80 PLUS encourage and track growth of energy-efficient power supplies for computers



Industrial



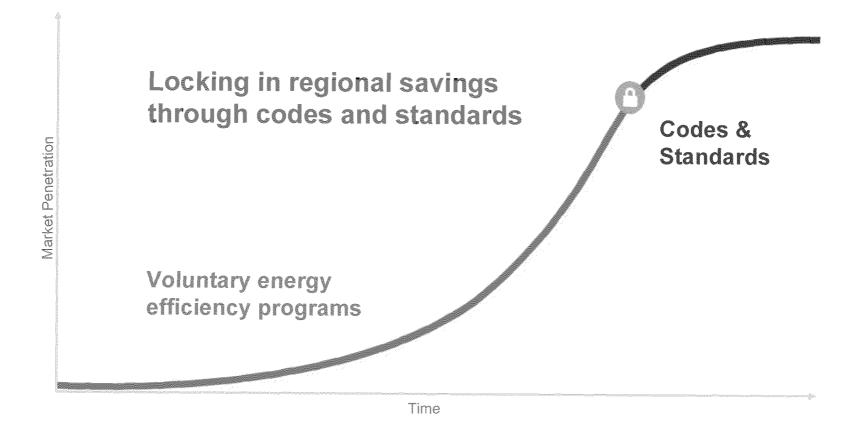
Work to set industry-wide goals, encourage individual organizations to adopt Strategic Energy Management and coordinate regionally.

Key Initiatives:

- ffi Collaborative Energy Strategies -- working on an industry-wide approach with the food processing industry to setting goals and increasing efficiency
- ffi Strategic Energy Management Support companies in integrating energy management into their company cultures
- ffi Regional Coordination partnerships with stakeholders that help develop market ready offerings



Codes and Standards





Emerging Technologies



Provide a mechanism for the region to invest in emerging technologies in a way that minimizes risks to any one funder and maximizes potential benefits.

Upcoming Initiatives:

- ffi Residential Heat Pump Water Heaters
- ffi Regional Advisory Committee
- ffi Net Market Effect: 0 aMW by 2014; 5aMW by 2019
- ffi Portfolio Target: 300 aMW Total Regional by 2030



Partner Services



Support the region's efforts to promote energy efficiency through market research, collaboration and information sharing.

Upcoming Initiatives:

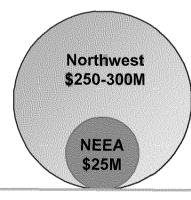
- ffi Develop a website/ information services portal
- ffi Create promote online forum/collaboration tools
- ffi Hire and deploy a circuit rider
- ffi Coordinate regional conference/ events
- ffi Coordinate training/ workshops



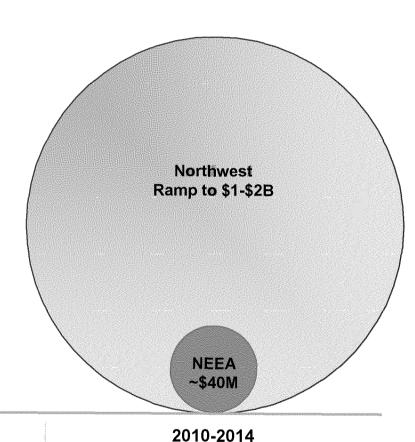
Annual Northwest Energy Efficiency Investment



1995Deregulation



2005-2009
Codes and standards accelerate
Climate change awareness



Economic Challenge
Climate Change
Increased EE Investment and Awareness



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Market Transformation Accomplishments



1997: Efficient washers. 50% market share today - highest in the nation.



2001: Market share for **ENERGY STAR** windows hits 75%.



BETTERBRICKS

2005: BetterBricks healthcare focus today 30% of region's beds have adopted a SEMP.

NW Food processing industry commits to

2008:

50% reduction goal

1996: NEEA Launched

1990

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1998: BacGen reduces wastewater treatment energy use by up to 50%.

2000: VFD cold storage fans reduce energy use by 61-86%.

2002: 80 PLUS. computer power supplies could save NW 8.5 million kWh annually.

2004: Northwest **ENERGY** STAR new homes spec - 15% more efficient than

code.

2007: CFL sales top 18 million



2009: **Ductless** heat pump pilot

begins

Today





About NEEA































Funding

- ffi ~\$192M from 2010-2014 (doubling)
- ffi Bonneville Power Administration (on behalf of ~130 publics)
- ffi Public (Direct Publics): 6
- ffi IOUs: 5
- ffi Energy Trust of Oregon

Board Oversight and Supporters

- ffi State governments
- ffi Energy industry representatives
- fi Public interest groups

Team:

- ffi Deep bench of expertise
- ffi 42 full-time staff
- ffi National and local partners
- ffi Extensive contractor base

Results

- ffi 1997-2008 264 aMW netted
- ffi Enough to power cities of Spokane and Tacoma each year

Mission

ffi Mobilize the Northwest to become increasingly energy efficient for a sustainable future