



# Emerging Technology

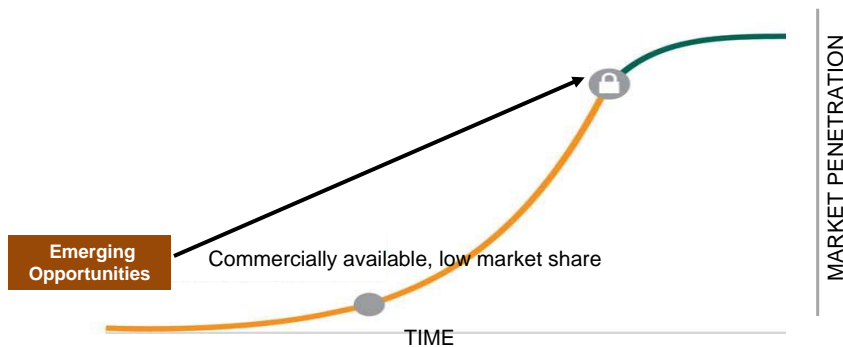
Presentation to NEET Executive Committee

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NEET ACTION 3: “Create a plan for NEEA, BPA and other regional entities to coordinate emerging technology activities and keep the “pipeline” full to meet future energy efficiency needs.”



## Regional Emerging Technology Advisory Committee

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### Advisory Committee Charter Dual Purpose:

- Advise NEEA's ET portfolio
- Forum for Regional ET Coordination and Collaboration



## Regional EE Emerging Technology Roadmap

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NORTHWEST ENERGY EFFICIENCY  
TECHNOLOGY ROADMAP  
MARCH 2010



## ET Technical Advisory Groups

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- Regional and national experts submit, evaluate and prioritize emerging technologies and make recommendations to BPA and RETAC through an in-depth guided process
  - **Lighting TAG** Ashland, BPA, CLTC, e2co, E Source, ETO, EWEB, LEI, Lighting Design Lab, Lighting Research Center, NEEA, NWPC, WSU Energy Program
  - **HVAC TAG** AHRI, Arup, BC Hydro, BPA, Davis Energy Group, EWEB, LBNL, NEEA, NWPC, NYSERDA, SMUD, NBI, MacDonald Miller, PAE, PG&E, PSE, SCE, SCL



## Examples of Coordinated BPA/NEEA ET Activity: Heat Pump Water Heaters

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### NEEA:

- Focus on next generation units made for Northern Climates
- Specification Development
- Identification of European and Asian Sources
- "Golden Carrot" for US manufacturers
- Revised test standards

### BPA:

- Focus on current generation units
- Lab testing 3 domestic manufacture units
- Modeling of Lab performance
- EPRI field testing and demonstration of up to 30 units



## Other Regional Coordination of Emerging Technologies

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- Regional catalogue of Emerging Technologies
- Emerging Technologies framework
  - Prioritized scanning, screening and assessment
- Emerging Technologies database
- Joint NEEA/ETO/BPA detailed road-mapping for specific technologies
- Cold Climate Ductless Heat Pumps
- Emerging Technologies communications (BPA EE Conference, NEEA Tech-Talk Bulletin)

