How Technologies Move Through the Framework

A Binational Perspective

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Consortium for Energy Efficiency (CEE)
• CEE members administer ~80% of $9B in EE and DSM budgets
• CEE members serve over 102 million electric and 52 million natural gas customers

• Together, CEE members accelerate development and availability of EE products and services for lasting public benefit

Blue-colored states and provinces are where CEE members are located.

2019 CEE Emerging Tech Collaborative (ETC)
- Ameren Illinois
- BC Hydro
- ComEd
- Con Edison
- Consumers Energy
- DTE Energy
- Efficiency Vermont
- Enbridge Gas
- FortisBC
- Natural Resources Canada
- Northwest Energy Efficiency Alliance
- PSEG Long Island
- Sacramento Municipal Utility District
- San Diego Gas & Electric
- SoCalGas
- Southern California Edison
- Southern Company
- United Illuminating
- Wisconsin Focus on Energy
- Xcel Energy
## Shared Objectives

### Local ETC Member Programs
- Accelerate program or market adoption of EOs with high energy benefits potential by bridging the gap between R&D and meeting the **criteria for compelling energy program and market adoption**
- **Reduce the risk** that customers or energy programs invest in EOs that do not deliver on expected benefits

### Binational ETC
- Accelerate voluntary consideration and uptake of **impactful binational EOs** among CEE members and customers
- Increase the effectiveness of individual EO programs by sharing information and expertise
Challenges

- Leveraging each other’s efforts: Nomenclature, cycles, processes, trust
Local Program Framework

**Ideation and Screening**
- Internal
- External
- Mandates

**Scope Development**
- Research
- Identify Gaps
- Develop Project Scope

**Assessment and Data Gathering**
- Lab Tests
- Field Tests
- Scaled Field Placements
- Pilots
- Market Research

**Opportunity Transfer**
- Share Results

**Program Support**
- Track Performance
- Optimize Program Delivery
- Assess Add’l Research Req’d
Linear is Not Linear
Binational Consortium Framework

- Known, established timing for each step
- Progressively more rigorous, agreed-upon considerations
- Multiple perspectives: EO program managers, portfolio managers, program designers, subject matter experts, program directors
Screening, Scoping, and Transfer Questions

• **TECHNICAL**: Energy savings, utility systems benefits; compared to what; safety; data; risk

• **MARKET**: Size, growth potential over time, speed of growth potential; barriers related to manufacturing, distribution, installation, and cost barriers; compared to incumbent; risk

• **CUSTOMER**: How compelling; barriers; satisfaction data

• **PROGRAM IMPLEMENTATION**: Barriers; data demonstrating potential impacts to participation or program costs

• **FIT**: What is needed? Timely? Resources available? Locally appropriate? Map to strategic goals?
• Got EOs? How to Engage
  • Individual EO programs
    • Binationally

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