



# QUEST III: Integrated Energy Solutions - Tools & Programs

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# Purpose



1. Current Federal ICES Support and Work
2. Identifying a federal role – implementing ICES
3. Outline possible pathways forward for federal role regarding ICES development

# Current Federal Support for ICES (1)



- **Equilibrium Communities Initiative**
  - \$4.2 million in support for showcase or improvement projects
  - Partnership with Canadian Mortgage and Housing Corporation
  - Proposals have been received – being reviewed
- **Clean Energy Fund**
  - \$191 million earmarked for projects that can include ICES
  - Proposals have been received – being reviewed
  - Successful projects to be announced shortly
- **Collaboration and consultation with PT & Stakeholders**
  - Work under the auspice of the Council of Energy Ministers: federal, provincial and territorial (FPT) cooperation
  - Financial support for QUEST secretariat and studies

# Current Federal Support for ICES (2)

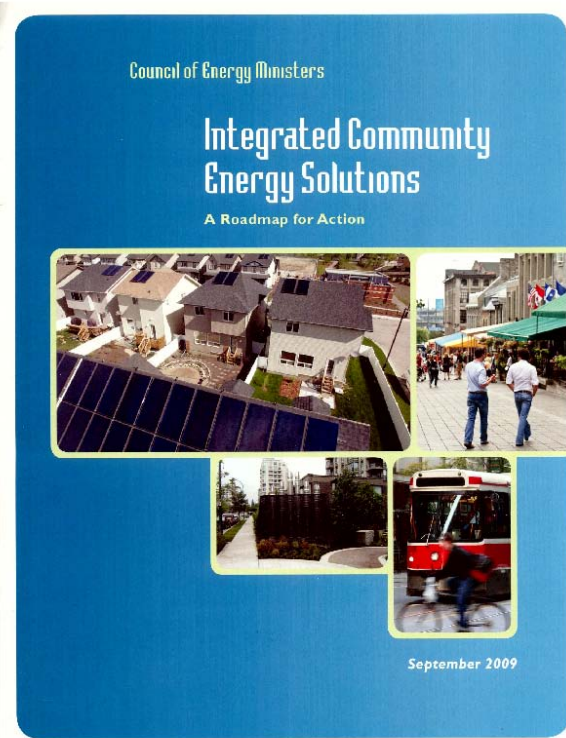


- **Green Municipal Fund - \$550 million**
  - Federally funded – administered, at arms length, by Federal of Canadian Municipalities
  - Can support ICES plans, feasibility study and projects
- **ICES Research and Development through CanmetENERGY**
  - Systems oriented research: distributed co-gen, heat and electricity storage, low exergy system applications
  - Technology oriented research: Fuel cells, residential fuel-fired systems, efficiency standard development
- **New infrastructure funds**
  - Building Canada (\$33 billion), Infrastructure Stimulus Fund (\$4 billion), Green Infrastructure Fund (\$1 billion)
  - Support for ICES related infrastructure: clean energy production, public transit, etc.

# Current Federal Work on ICES – CEM Roadmap



- **Council of Energy Ministers ICES Roadmap**
    - Released September 1, 2009 - Endorsed by all CEM ministers
    - Tool for FPT governments in moving ICES forward
    - Roadmap informed through consultations by CEM jurisdictions with key stakeholders
1. Defines ICES & proposes vision: by 2050 all Canadian communities are designed and operated as integrated community energy systems
  2. Explores roles for governments and key stakeholders
  3. Identifies Barriers
  4. Develops timeline for implementation
  5. Outlines broad strategies to advance ICES including a menu of enabling tools for government



# Current Federal Work on ICES –Standing Committee on Natural Resources Report on ICES



- Standing Committee on Natural Resources releases report supportive of ICES, June 18, 2009
- **Report makes 9 recommendations to federal government to advance ICES in Canada**
- **Government Response:**
  - agrees in principle with all recommendations
  - the Government will continue collaboration and consultation with PT & stakeholders (e.g., CEM (PT), QUEST, FCM, ...)
  - Response states that the Government will consider how to best advance ICES including with programs that would create an enabling environment through:
    - provision of expertise
    - information
    - training and tools
    - incentives

# Identifying a federal role – implementing ICES



- **Roadmap, QUEST, Standing Committee report and Government response have all contributed to raise the profile of ICES key stakeholders and decision makers**
  - e.g. Minister Raitt hosted an ICES roundtable October 23, 2009
    - Raise awareness and seek input on federal role
  
- **Government work on ICES will continue**
  - NRCan to play a leadership role at federal level
  - Continue to cooperate with PT and stakeholders
  - Continue to address needs of all communities (urban, rural/remote...)
  
- **ICES Program strategic development using 3 pillar approach:**
  1. **CEM Roadmap** (Strategic Plan, Consultation, Ongoing Dialogue)
  2. **Measuring Energy at the Community Level** (Methodology)
  3. **Community Demonstrations & Field Trials:** pilots & recently announced Equilibrium Community Initiative

# Path Forward – Possible new programs



1. ICES Enabling Package: Capacity Building
2. ICES Incentives: Showcase Program
3. Linkages:
  - Both to lever and complement existing programs (FCM-GMFs; Infrastructure-Building Canada)
  - Programs to be coupled with:
    - i) R&D (CanmetENERGY); and
    - ii) community scale actions (ecoENERGY programs)

# Possible Path Forward – Capacity Building: ICES Experts Network



## 1. National ICES Experts Network

- NRCan “ICES Knowledge Centre” Hub
- Support other national-level organizations to support knowledge development, training and information sharing
- Regional Service Organizations
  - National coverage, jointly funded with Provinces, Territories and other partners (e.g. utilities)
  - Facilitate development and implementation

# Possible Path Forward – Showcase Program



## 2. ecoENERGY Integrated Community Energy Solutions Showcase Program

- Incentive program for ICES implementations that significantly improve the energy performance of communities
- ecoENERGY Federal Leadership Showcases

# Other Possible Initiatives or Measures



- Tax measures (Standing Committee Report)
- Linkages with carbon trading regime (Standing Committee Report)
- Certification of training programs (CEM Roadmap)
- Others?

# Next Steps



- Planning and consultations on next generation ecoENERGY programming