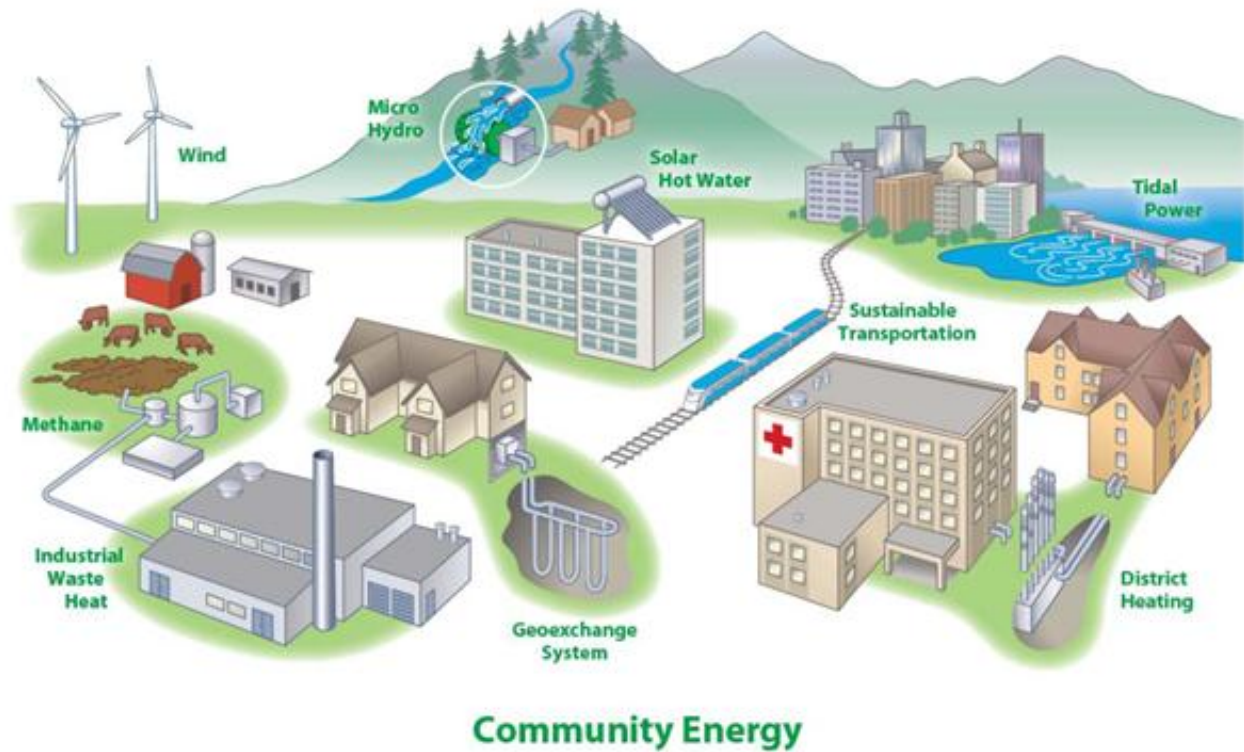




FCM/QUESTBC



Community Energy



FEDERATION
OF CANADIAN
MUNICIPALITIES

FÉDÉRATION
CANADIENNE DES
MUNICIPALITÉS

#SCC2011



FORTISBC



Levers

- Policy
- Regulatory framework
- Active stakeholders and partners
- Leadership



QUEST Sustainability Building Blocks



1. Mixed-use and higher density development
2. Energy efficient LEED certified buildings
3. Energy form is matched with its end-use
4. A district energy system
5. Energy from waste
6. Local renewable energy contribution
7. Electricity and gas grids allow optimization

Utilities can help: 2,3,4,5,6,7



QUEST BC: Groups Involved

- Utilities: BC Hydro, Fortis BC/Terasen Gas, Corix Utilities
- Provincial: Ministry of Energy, Mines and Petroleum Resources, Ministry of Community and Rural Development, Ministry of Environment / Climate Action Secretariat
- Municipalities: Vancouver, Dawson Creek, North Vancouver
- Planning Institute of B.C.
- B.C. Building Owners and Managers Association
- NGOs: Fraser Basin Council, Community Energy Association, Initiatives Prince George
- Colleges/Universities: Royal Roads University





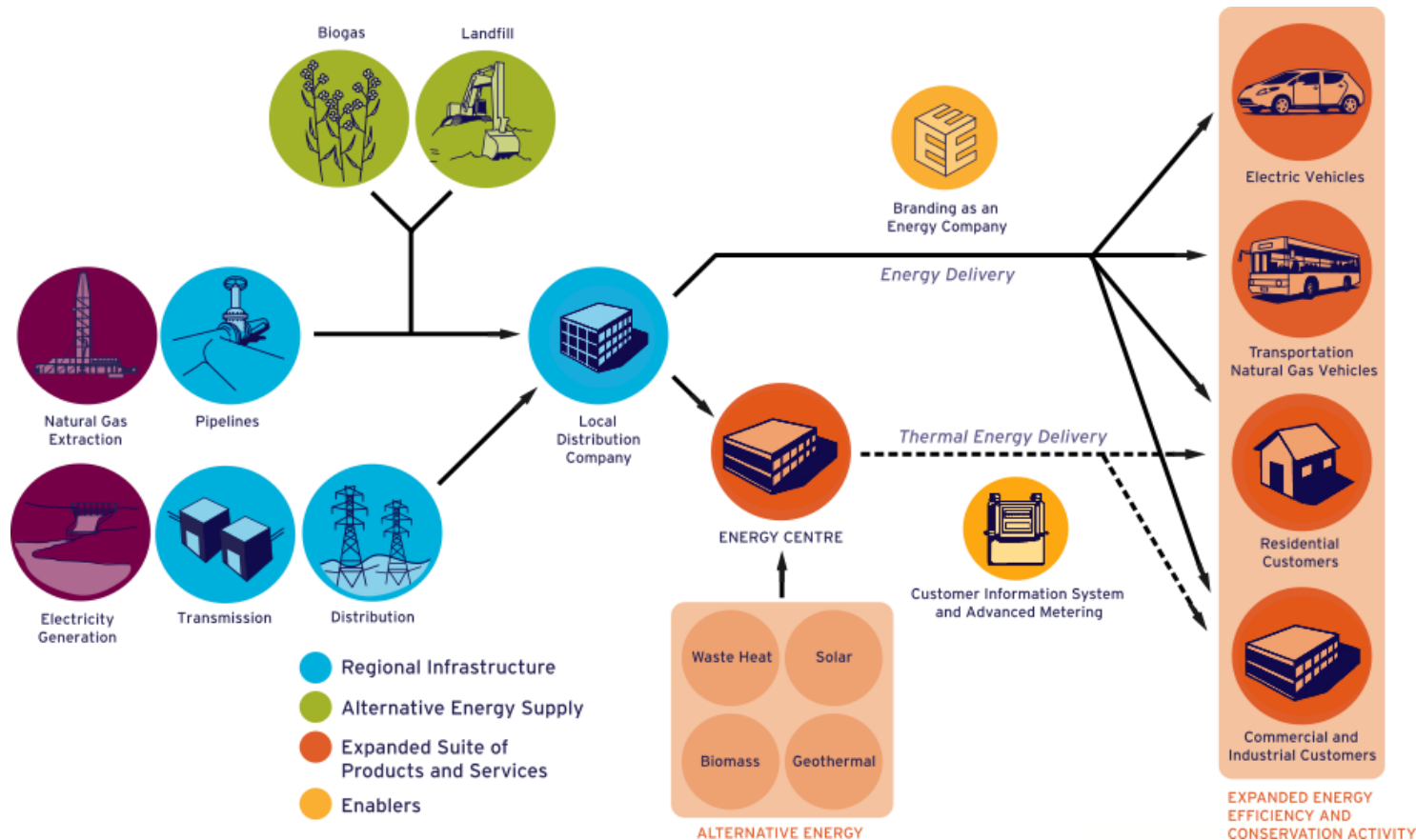
BC: Priority Areas

- Advance workstream progress
 - Develop effective governance frameworks for ICES
 - Education and Capacity Building
 - Advance project implementation in B.C.
- Develop a demonstration project that integrates the three workstream areas and acts as a resource for project developers
- Assess feasibility of a dedicated QUEST BC coordinator to maintain momentum and ensure consistent contributions to QUEST National





Fortis BC/Terasen Transforming into an Integrated Energy Utility





BC Hydro Funding Offers

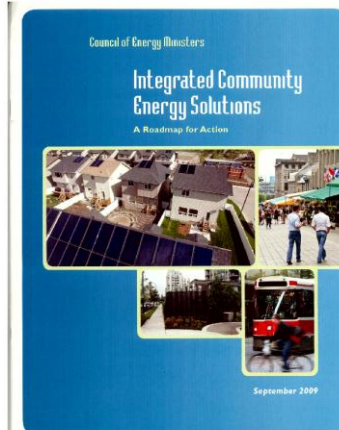
Tool	Funding
<ul style="list-style-type: none">Community Energy and Emissions Planning	Up to 50% funding of study costs to a maximum threshold
<ul style="list-style-type: none">District Energy pre-feasibility study	Up to 50% of study cost to a maximum threshold
<ul style="list-style-type: none">District Energy feasibility study	Up to 50% of study cost to a maximum threshold
<ul style="list-style-type: none">Capital incentive for district energy project implementation	linked to electrical savings



Overview of Federal Activities

Support for ICES through current initiatives

- Federal funding initiatives
 - Equilibrium Communities Initiative, Clean Energy Fund, Building Canada, Infrastructure Stimulus Fund, Green Infrastructure Fund
 - Green Municipal Fund (administered, at arms length, by the FCM)
- Research and development:
 - Community energy planning, integrated community energy mapping, integrated energy systems, alternative energy technologies
- Support for stakeholder collaboration
 - Financial support for QUEST secretariat and studies

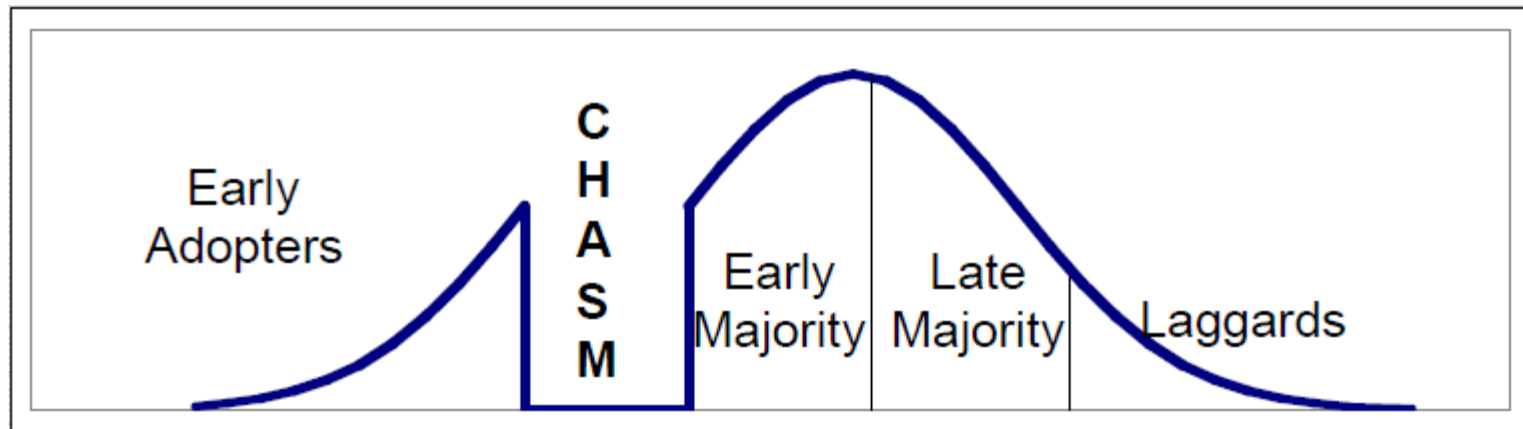


Consultation and collaboration

- Council of Energy Ministers' ICES Roadmap
- House of Commons Standing Committee on Natural Resources report on ICES and Government response
- Ongoing federal, provincial and territorial cooperation through the Council of Energy Ministers



Leadership: Bridging the gap

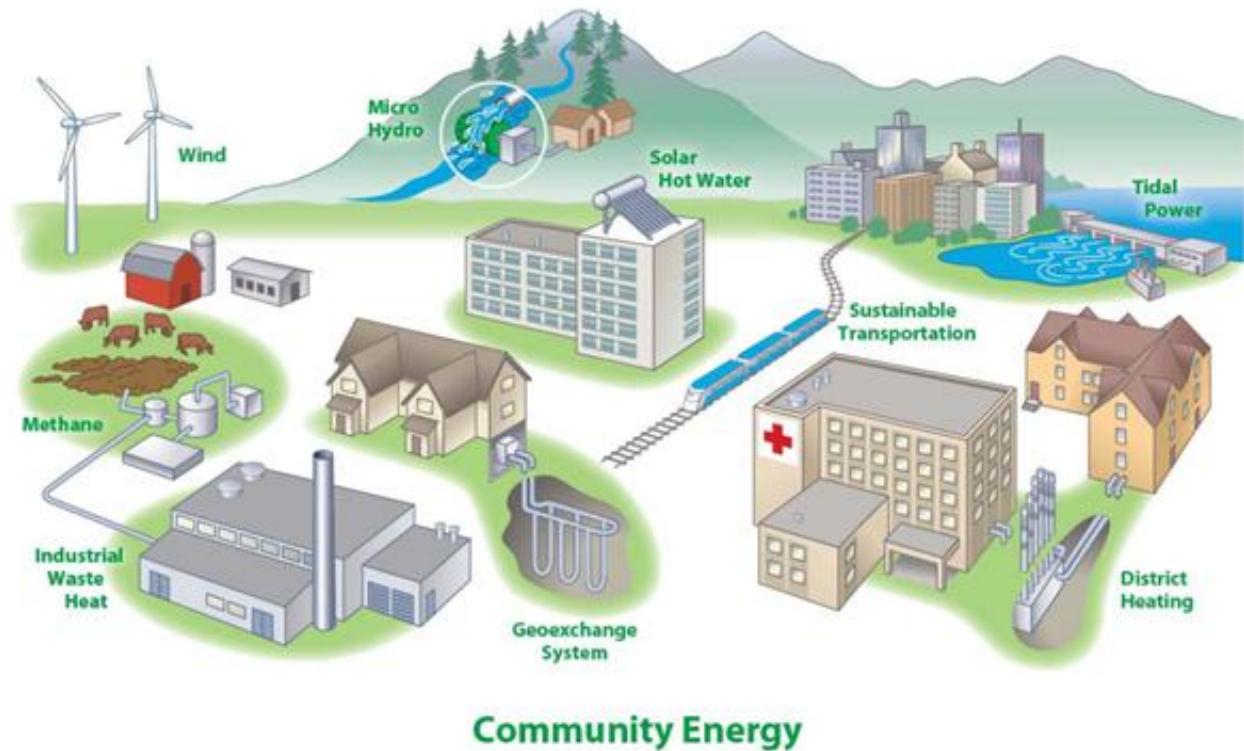


- Geoffrey Moore's Insight was the Chasm
- Early Majority Not Influenced By Early Adopters
- They Want the Comforts of an Established Market
- They Want a Whole Product



QUEST Vision

“By 2050 every community in Canada is operating as an integrated energy system, and accordingly, all community development and redevelopment incorporates an integrated energy system.”



ICES – Questions for Discussion

- Are there examples of ICES approaches and projects in your community?
- What challenges are faced in your community to initiating and maintaining momentum for ICES?
- What changes to policy and programs could facilitate ICES in your community?
- What role could utilities play in your community to help advance ICES?

