Community Energy Planning: Getting to Implementation in BC

Opening Remarks

Dale Littlejohn
Community Energy Association

www.gettingtoimplementation.ca
@GTIenergy
- National, multi-year project
- Focused on building the capacity of Canadian communities to design and implement integrated CEPs
- Significant long-term social, economic and environmental benefits
Project Supporters

The J.W. McConnell Family Foundation
La fondation de la famille J.W. McConnell
Suncor Energy Foundation
Alberta Real Estate Foundation
Real Estate Foundation British Columbia
GTI Approach

Commence

Information Gathering

National Engagement & Framework

Pilot & Promotion

1. National workshop series (6 workshops across Canada)
3. Apply Framework to three test communities
4. Practical case studies developed for test communities
5. Training modules developed to aid with delivering Framework
6. Framework made publicly available along with training support
GTI Initial Deliverables

- Canadian Compendium of Community Energy Plan Legislation
- National Report on Community Energy Plan Implementation
- Project Update released
- Reports expected early 2015
Workshop Overview

- Preliminary findings from GTI research
- Interactive roundtable discussions:
  - Integrating CEPs into Local Gov. Processes
  - Energy Efficiency in Existing Buildings
  - Planning and Policy: Smart Growth
  - Public Transit and Active Transportation
  - Electric Vehicles and Infrastructure
  - District Energy
- Plenary discussion
Provincial/Territorial Scan of Legislation, Policies and Programs

Preliminary Findings from the Getting to Implementation Initiative

Patricia Bell
Community Energy Association

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Review of provincial legislative, regulatory, policy and incentive programs that support community energy planning and implementation

Compile list of program types:
- Funding
- Research
- Capacity building
- Partnerships

Assess overall support for:
- Inventories and planning
- Energy efficiency
- Renewable electricity
- Renewable heat
- Thermal policy
- Low carbon transportation etc.
Provinces/Territories Supporting FCM Partners for Climate Protection Milestones

- Creating Inventories: 31%
- Setting Targets: 23%
- Planning: 69%
- Implementation Support: 15%
- Progress Reporting: 8%
Financial Support

All Provinces:
Residential retrofits

Most Provinces:
Renewable electricity, geo-exchange, biomass, transit and active transportation

Some Provinces:
Planning, district heat, organic diversion, Smart Growth, EV or hybrid support, net metering

Hardly Any Provinces:
Inventories and targets, innovative financing, carbon pricing, carbon neutral requirements
Context and Examples

- Renewable Heating
- Energy Planning
- Renewable Generation
- Climate Leadership
- Transportation
- Efficient Housing
- Geo-exchange
- Integrated Energy Planning
- Electric Vehicles & Cycling
- Green Fund
- Renewable Electricity
- Feed-in Tariffs
- Energy Efficiency
Context and Examples

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DISCOVER ELECTRIC VEHICLES

Electric vehicles are entering the market and are now available at many dealers. But how do you make sense of all the models available? >>

November, 2014 - Take the chance to test drive electric and plug-in hybrid vehicles for free >>

PURCHASE/LEASE REBATE

Enroll in the Drive Electric program and get a rebate of up to $8,000 on the purchase or lease of an eligible vehicle. >>

CHARGING STATION

Win the Drive Electric program, you can get a rebate of up to $1,000 for installing a charging station at your home. >>

FREQUENTLY ASKED QUESTIONS

SHARE

FOLLOW US ON...
Context and Examples

The Nova Scotia Community Feed-in Tariff (COMFIT) Program

Introduction to the COMFIT Program

- Renewable Electricity
- Feed-in Tariffs
- Energy Efficiency
For a new municipal energy plan - 50 per cent of eligible costs, up to a maximum of $90,000.
To enhance an existing energy plan - 50 per cent of eligible costs, up to a maximum of $25,000.
Helping Albertans travel in ways they couldn’t before

- **City of Edmonton** – $497 million (projected to be under budget)
  Moving transit riders on new Metro LRT line

- **Strathcona County** – $13.6 million
  Building new transit centre with 1,200 parking stalls

- **City of Calgary** – $473 million
  New C-Train moving more than 40,000 passengers a day

- **City of Lethbridge** – $6.1 million
  Providing riders with 15 hybrid low-floor and para-transit buses

Leadership

Transportation

Efficient Housing

Geo-exchange

Integrated Energy Planning

Electric Vehicles & Cycling

Green Fund

Renewable Electricity

Feed-in Tariffs

Energy Efficiency
Renewable Heating
Energy Planning
Climate Leadership
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Green Fund
Feed-in Tariffs
Energy Efficiency
Renewable Electricity
NORTHWEST TERRITORIES, Canada
Next Steps

1. Review/confirm research data
2. Analyse provincial support against:
   - CEP implementation success
   - Provincial GHG gas reductions
   - PCP milestones achieved
   - Energy spending
   - Penetration of renewable energy technologies
3. Review relevant examples from US and Europe
Community Energy Planning Research

Preliminary Findings from the Getting to Implementation Initiative

Peter Robinson,
Community Energy Association

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Objectives:

- Assess current status of CEPs in Canada
- Identify success factors and barriers
- Identify how GTI project can help implementation
Progress to date:
- Identified 170 CEPs across Canada
- Reviewed 50 CEPs
- Conducted 33 interviews
- Early stage analysis
Actions Identified vs. Actions Implemented in CEPs

- Planning & policy: 94% identified, 94% implemented
- Waste / LFG: 93% identified, 84% implemented
- Energy efficiency (existing buildings): 96% identified, 82% implemented
- Public transit: 74% identified, 73% implemented
- Active transport: 67% identified, 70% implemented
- Outreach: 67% identified, 64% implemented
- "Other" transport: 67% identified, 64% implemented
- RE / DE / CHP: 92% identified, 90% implemented
- Low carbon vehicles: 64% identified, 52% implemented

Legend: 
- **Orange** = Actions implemented
- **Red** = Actions identified
Factors Supporting CEP Implementation

- Other planning docs: 77%
- Staff support: 76%
- Co-benefits: 71%
- New governance models: 69%
- CEP Priorities: 68%
- Political support: 67%
- Stakeholder support: 66%
- Money / funding: 59%
- Public support: 59%
- GHG impacts of actions: 57%
- Staff capacity: 55%
- LG limits of authority: 45%
Stakeholder Support vs. Importance for CEP Implementation

Importance
Supportiveness

- Planning department: 95% Importance, 82% Supportiveness
- Electric utility: 91% Importance, 76% Supportiveness
- Provincial government: 90% Importance, 67% Supportiveness
- Developers: 89% Importance, 56% Supportiveness
- Gas utility: 87% Importance, 69% Supportiveness
- Finance department: 86% Importance, 70% Supportiveness
- Federal government: 81% Importance, 64% Supportiveness
- Non-profits: 79% Importance, 45% Supportiveness
- Private sector: 78% Importance, 59% Supportiveness
- Colleges / Universities: 76% Importance, 75% Supportiveness
- Other local governments: 71% Importance, 77% Supportiveness
- Real Estate Agents: 89% Importance, 61% Supportiveness
- School boards: 61% Importance, 48% Supportiveness
- Health Department: 60% Importance, 60% Supportiveness

Legend:
- Importance
- Supportiveness
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<tr>
<th>Challenges</th>
<th>Recommendations</th>
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<tr>
<td>Political / staff support</td>
<td>- Focus on co-benefits</td>
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<td>- Identify / develop champions</td>
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<td>- Have early successes</td>
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<td>CEP loses priority</td>
<td>- Accountability</td>
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<td>- Incorporation into local government processes</td>
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<td>- Sufficient staff resources</td>
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<td>Local government limits of authority</td>
<td>- Help from provincial / territorial governments</td>
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<td>Private / real estate sector</td>
<td>- Finding actions that work from their perspective</td>
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<td>- Involving them early in discussions</td>
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<td>Making deeper reductions after easy ones</td>
<td>- Rigorous energy and emissions data to support decision making</td>
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Next Steps

1. Review/confirm research data
2. Identify:
   - High, medium and low performing CEPs
   - Factors driving or acting as barriers to implementation
   - Recommendations to accelerate implementation
Roundtable Discussions

- 70 minutes
- Facilitator and note-taker at each table
- Interactive discussion focused on:
  - The role and level of engagement of local government departments, utilities, developers, real estate agents and other key collaborators in the implementation of CEPs
  - How to align stakeholder business models to implement CEPs
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