COMMUNITY
ENERGY PLANNING
GETTING TO IMPLEMENTATION
IN CANADA

Community Energy Planning: Getting to Implementation in Saskatchwan

June 26, 2015

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QUEST Quality Urban Energy Systems of Tomorrow

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Agenda

- Welcome and introductions
- An overview of the project and Community Energy Plan implementation in Canada
- **Part I** – Building buy-in for community energy planning
- **Part II** – Implementing Community Energy Plans and projects in Saskatchewan

Overview of the Getting to Implementation Initiative

Stages

1 Commencement

2 Research

3 National Engagement & Framework

4 Pilot & Promotion

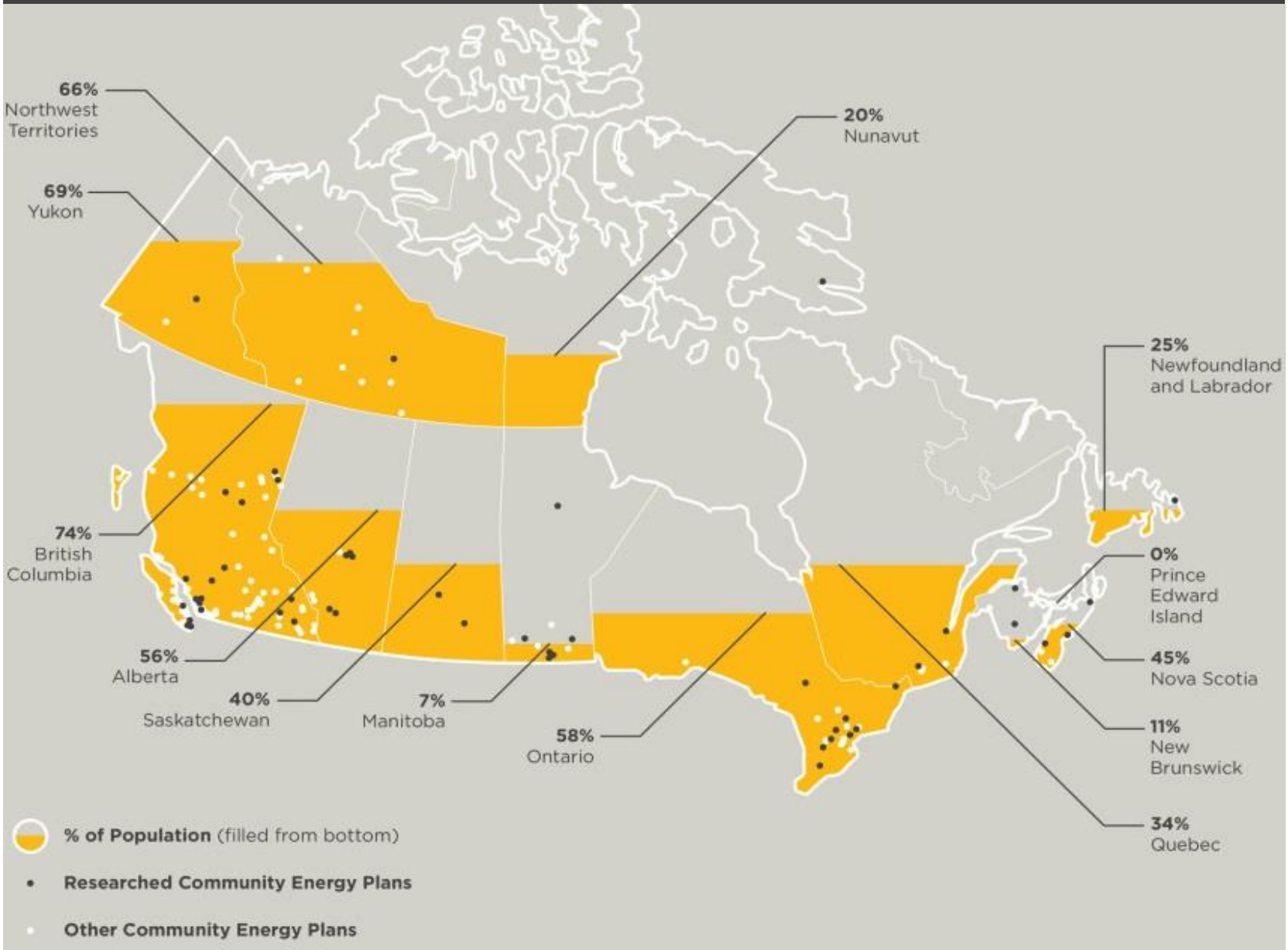
Deliverables

2
- National Report on CEP Implementation
- National Report on Policies Supporting CEP Implementation

3
- National workshop series
- Community Energy Implementation Framework

4
- Apply Framework to three test communities
- Practical case studies developed for test communities
- Training modules developed to aid with delivering the Framework
- Framework made publicly available with training support

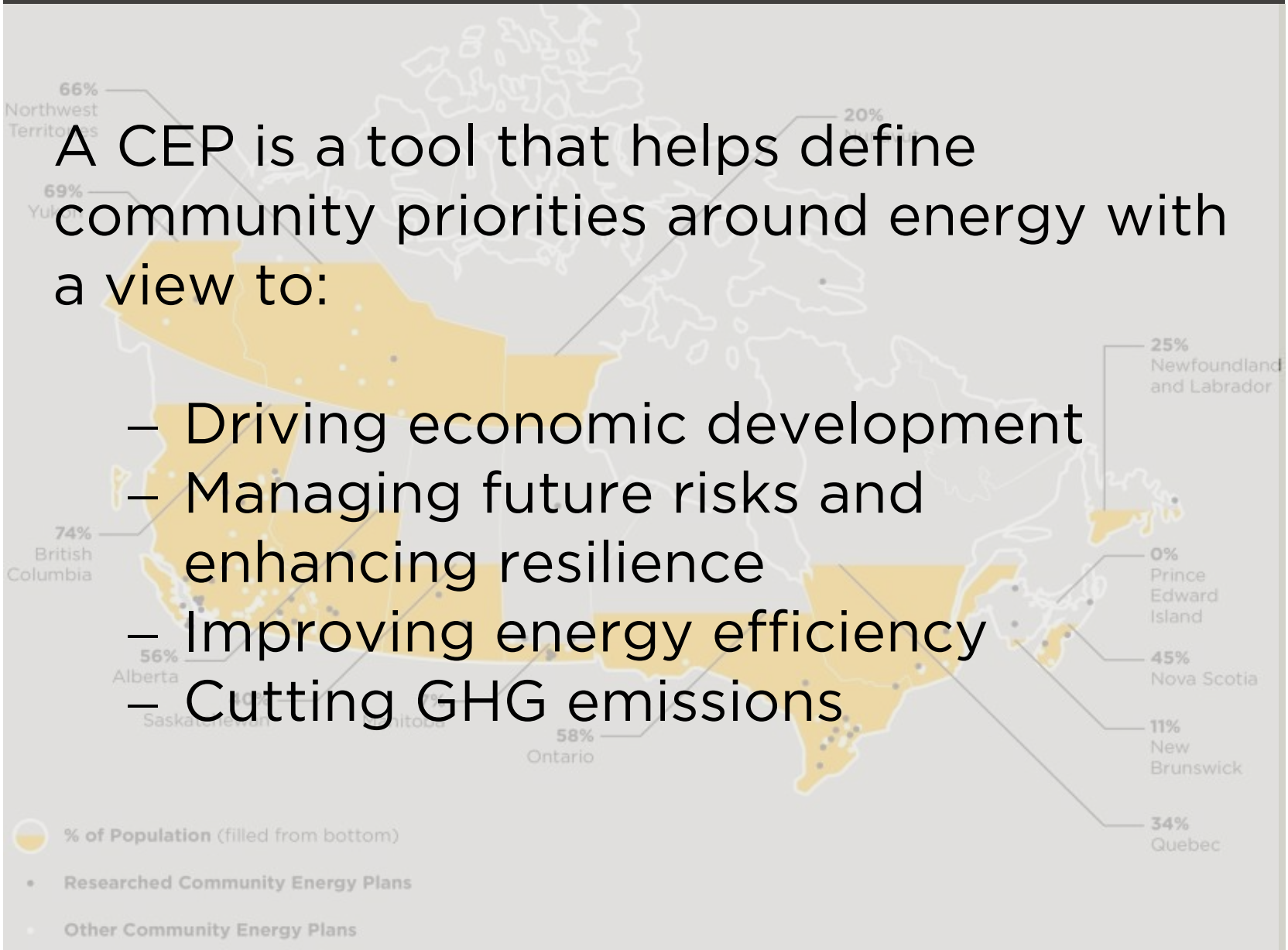
What is a Community Energy Plan?



What is a Community Energy Plan?

A CEP is a tool that helps define community priorities around energy with a view to:

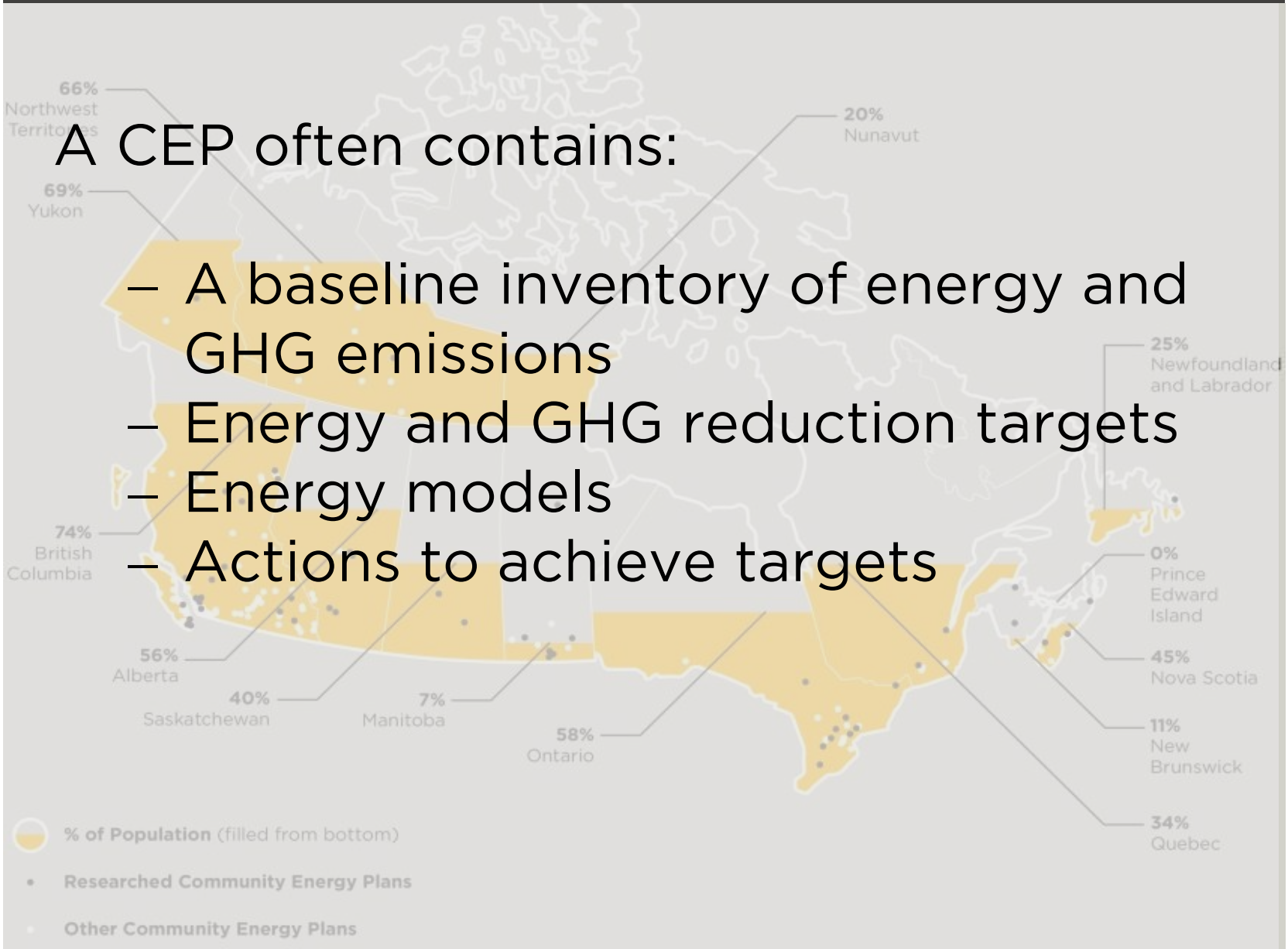
- Driving economic development
- Managing future risks and enhancing resilience
- Improving energy efficiency
- Cutting GHG emissions



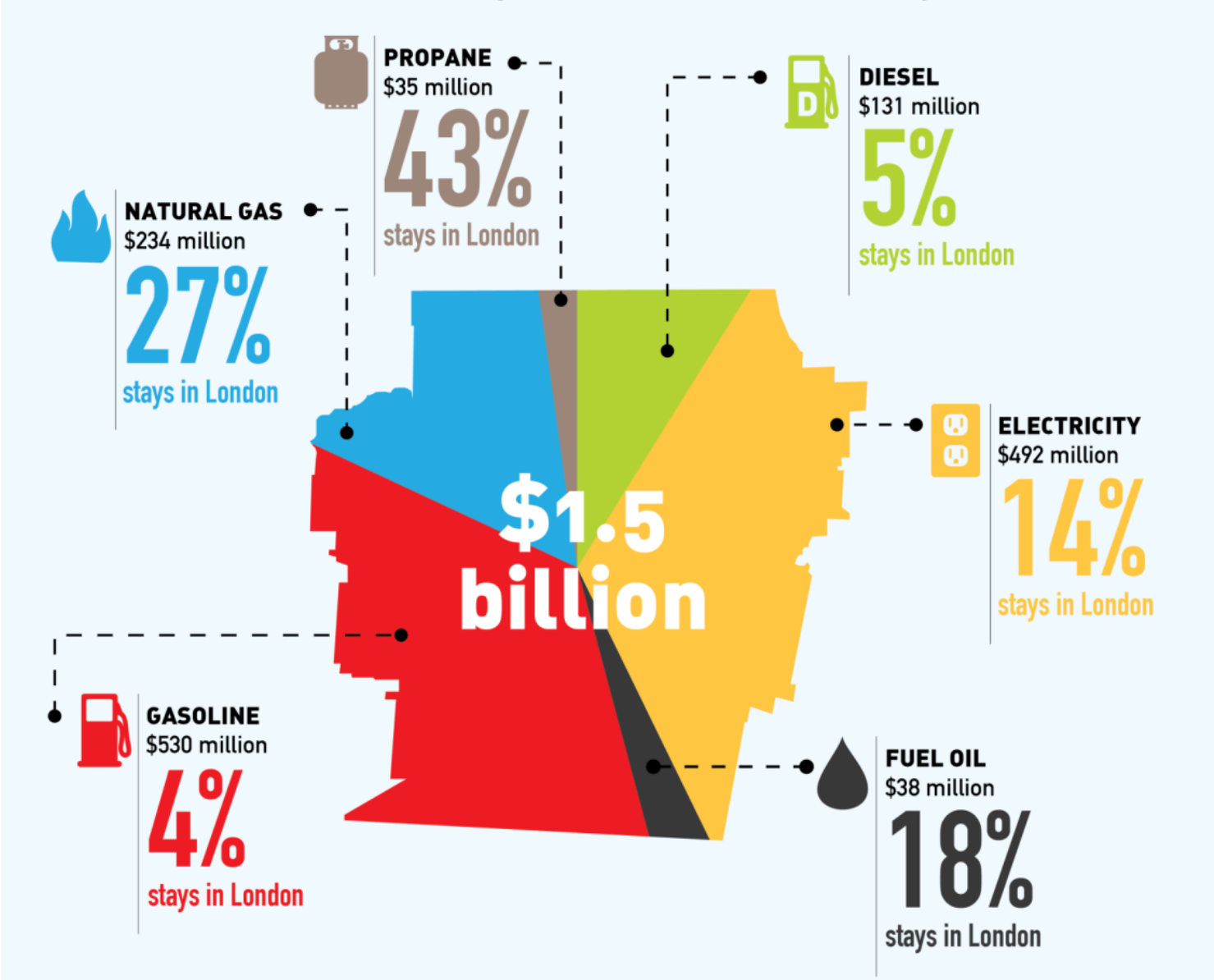
What is a Community Energy Plan?

A CEP often contains:

- A baseline inventory of energy and GHG emissions
- Energy and GHG reduction targets
- Energy models
- Actions to achieve targets



What is a Community Energy Plan?
Energy and Emissions Inventory



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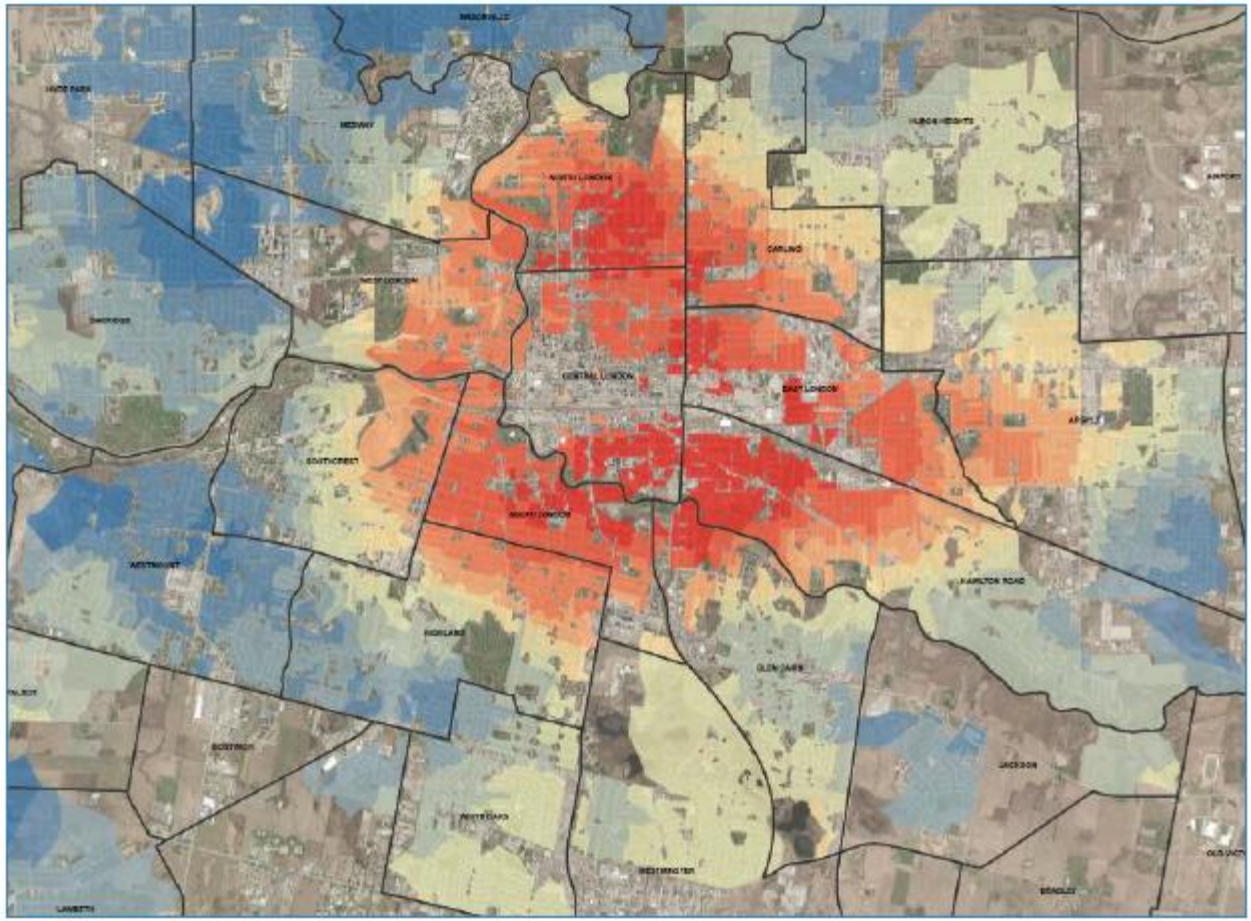
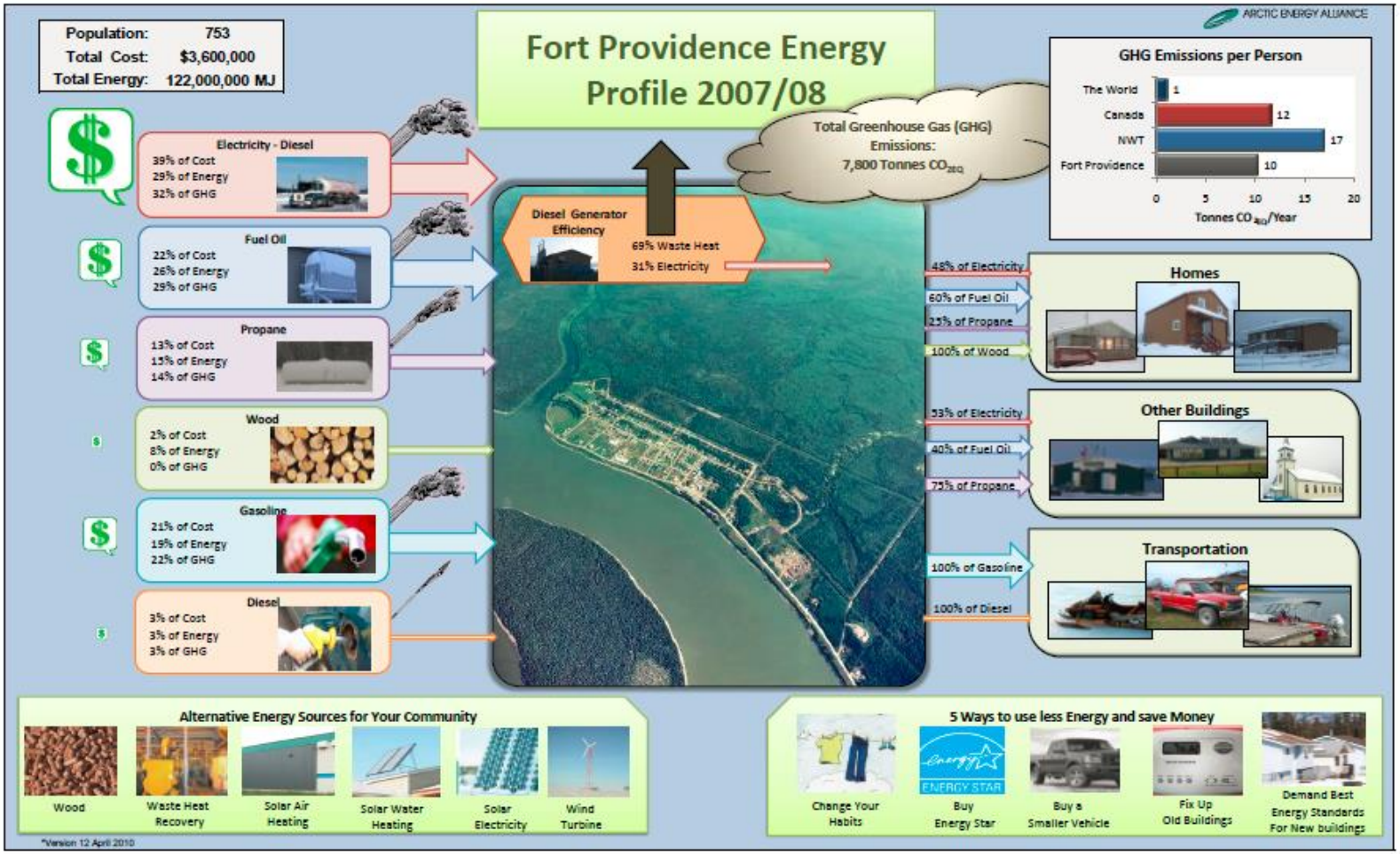


Map Showing Relative Energy Efficiency of London's Housing Stock for Natural Gas Use (2008 Data)

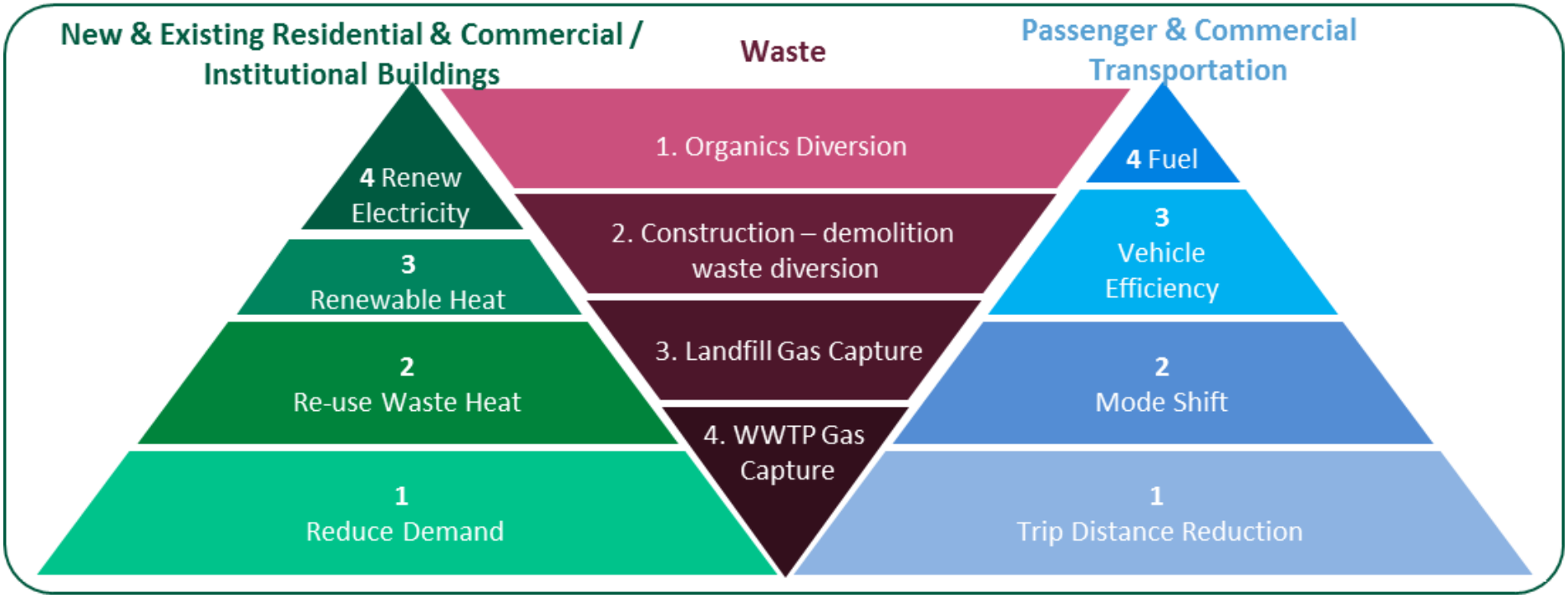
Source: London, Ontario

What is a Community Energy Plan?
Energy and Emissions Inventory



Source: Fort Providence, Northwest Territories (Arctic Energy Alliance, 2008)

What is a Community Energy Plan?
Actions in a CEP



What is a Community Energy Plan?
Case Study: City of London, Ontario

GHG Reductions

• Ground-Sourced Heat Pumps • Retrofitting Newer Homes (post-1980) • Solar Hot Water Heating	• Retrofitting Institutional Buildings • Solar Air Heating	• Retrofitting Commercial Retail Buildings • Retrofitting Industrial Facilities • Retrofitting Older Homes (pre-1980)
• New "LEED" Commercial Retail Buildings • Retrofitting Apartment/Condo Buildings • New High Efficiency Homes • Solar PV "behind-the-meter"	• Bioenergy • Retrofitting Commercial Office Buildings • New High Efficiency Industrial Facilities • New "LEED" Institutional Buildings • Solar PV with FIT Contract	• District Energy Systems
• New "LEED" Apartment/Condo Buildings • Small Scale Wind Turbines	• Wind Turbines	• New "LEED" Commercial Office Buildings

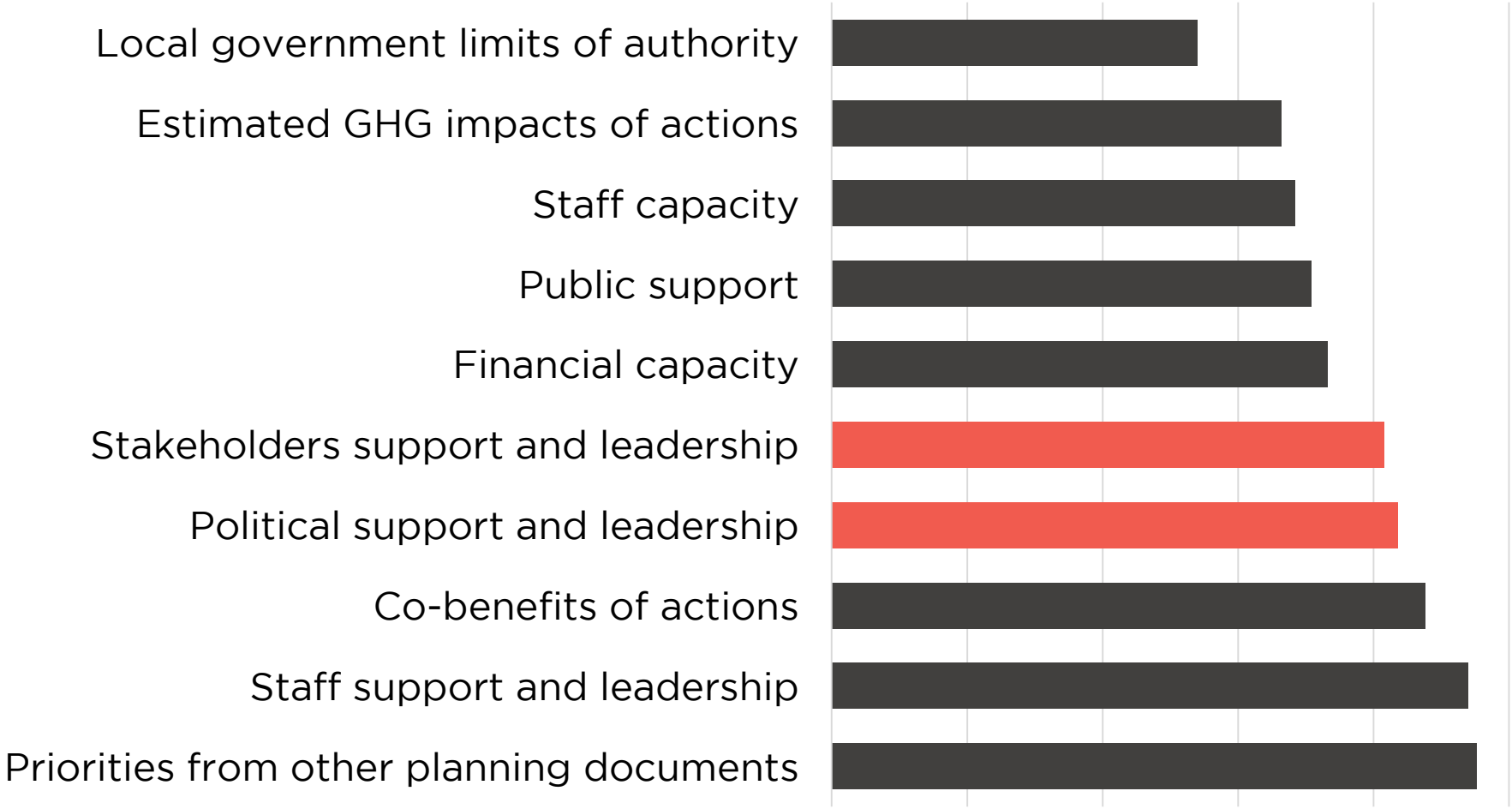
Financial Payback

Energy cost avoidance of around $250 Million per year by 2018

National Report on CEP Implementation

- Snapshot of CEP implementation in Canada
- Describes success factors and barriers for CEP implementation
- Provide key considerations for the development of the Community Energy Implementation Framework

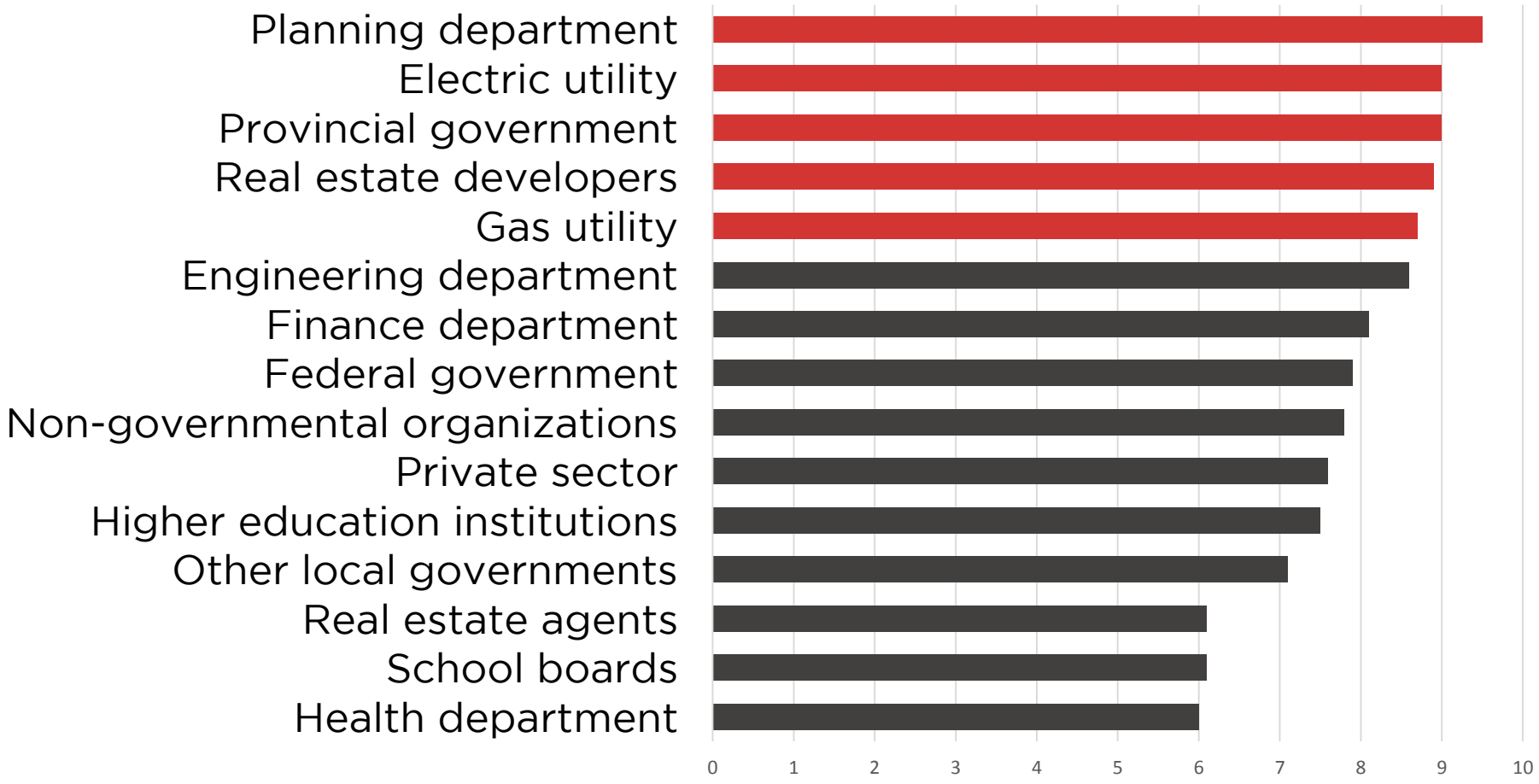
Challenges and Success Factors for Implementation



Challenges and Success Factors for Implementation

Financial and humans resources capacity for Implementation	– Focus on partnerships *Early, sustained engagement is key – engage broadly!* – Identify points of commonality between the CEP objectives and community stakeholders
Working within the local government's limits of authority	– Focus on actions being supported by utilities, provincial government and other stakeholders

Challenges and Success Factors for Implementation



Challenges and Success Factors for Implementation

Building Political and Staff Support	– Identify key messages for different audiences – Tracking and monitoring progress using key performance indicators – Use data to tell a story

Challenges and Success Factors for Implementation

Improving the Clarity of the CEP	– Make the plan "SMART" (specific, measurable, attainable, relevant and time-bound) – Tie timelines and accountability to actions – Integrate energy into existing plans and processes – Use decision making tools (e.g. energy maps)

Community Energy Plan Implementation
Lessons Learned

- Focus on economic development and risk management
- Start simple – "3 emails" energy inventory
- Mapping provides robust starting point
- Cost-benefit info helps set priorities
- It can't be just the City's plan for the community
  - What are local stakeholders doing? Engage broadly!
- Think about performance indicators early on

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