

# PARTNERS FOR CLIMATE PROTECTION WEBINAR

Tools and Resources for Assessing District Energy Opportunities

March 31, 2014



# WHAT IS PCP?

- A **network** of Canadian municipal governments that have committed to reducing greenhouse gases and acting on climate change
- A partnership between FCM and ICLEI-Local Governments for Sustainability
- Founded in 1994—20 years experience and counting!
- 265 local government members, representing every province and territory



# FIVE MILESTONE FRAMEWORK



Establish a baseline GHG inventory and forecast



Set GHG reduction targets



Develop local action plans



Implement the plan or set of activities

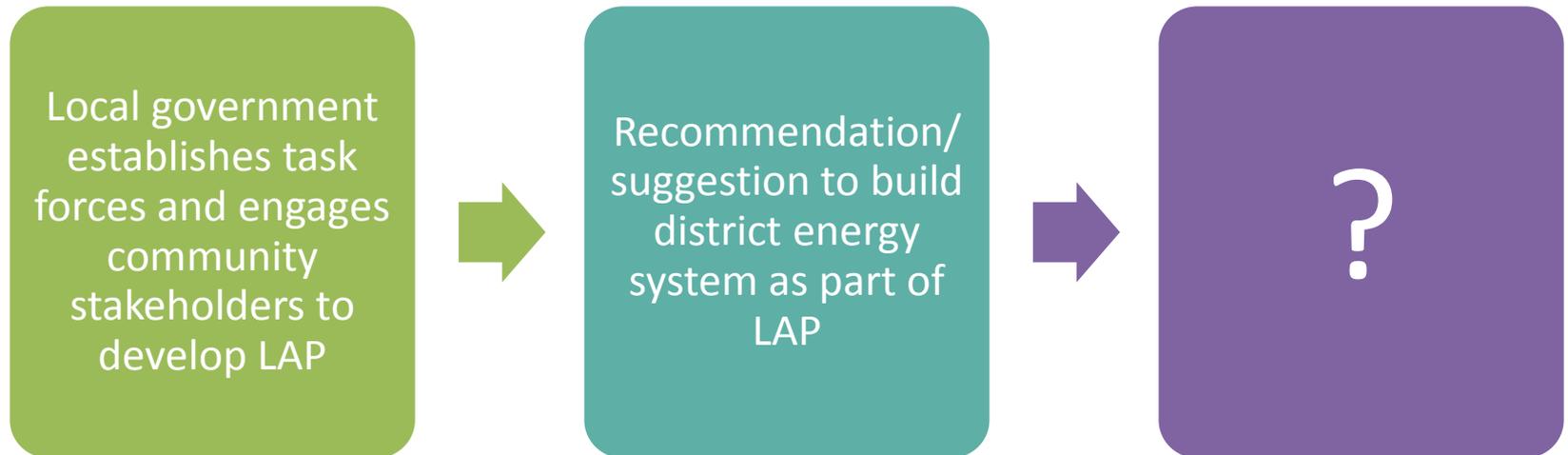


Monitor progress and report results



# ASSESSING DISTRICT ENERGY

- District energy is often raised during the local action planning (LAP) stage as a “big ticket” project with the potential to reduce GHGs significantly
- Many case studies to reference, but challenge when trying to identify key project details within scope of LAP (e.g. costs, potential GHG reduction, etc.)



# ASSESSING DISTRICT ENERGY

- Sample district energy action items in LAPs:

*“Pursue funding to investigate the potential for district energy in the City’s core.”*

*“Evaluate opportunities to utilize district energy in all new construction, major equipment replacement, and major renovations.”*

*“Study the feasibility of district energy.”*

*“Promote District Energy use within the Municipality's Official Plan or other land use planning mechanisms.”*



# ASSESSING DISTRICT ENERGY

- Feasibility studies often seen as important step and way to provide key project information for decision makers

## GMF-funded feasibility studies (2010-2013):

- *Whistler Village District Energy System — Feasibility Assessment* (GMF 12002)
- *Jones Street District Energy Feasibility Study, Qualicum Beach* (GMF 12029)
- *City of Nelson District Energy System Feasibility Study* (GMF 12077)
- *Town of Hearst District Heating Feasibility Study* (GMF 10392)
- *Multi-Government Complex with Combined Heat and Power for Net Zero Energy Study* (GMF 11003)
- *Surrey Civic Centre District Energy Feasibility Study* (GMF 11001)
- *Saskatoon District Energy System Feasibility* (GMF 10251)
- *Pearson Eco-Business Zone District Energy Feasibility Study* (GMF 10254)



# ASSESSING DISTRICT ENERGY

- Despite growing interest, there is still a noticeable capacity/information gap when identifying specific DE opportunities and communicating their benefits and implications for decision makers.
- Are there tools and resources that can help bridge this gap? Yes!
- Today's presenters:
  - Ken Church, Team Leader, Communities, CanmetENERGY Housing, Buildings and Communities, Natural Resources Canada
  - Urban Ziegler, Chief Engineer, RETScreen International, CanmetENERGY Natural Resources Canada
  - Andre Mech, Principal, MECH and ASSOCIATES



# QUESTIONS, IDEAS, COMMENTS?

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