



District Energy System

Report to Council

July 27, 2009

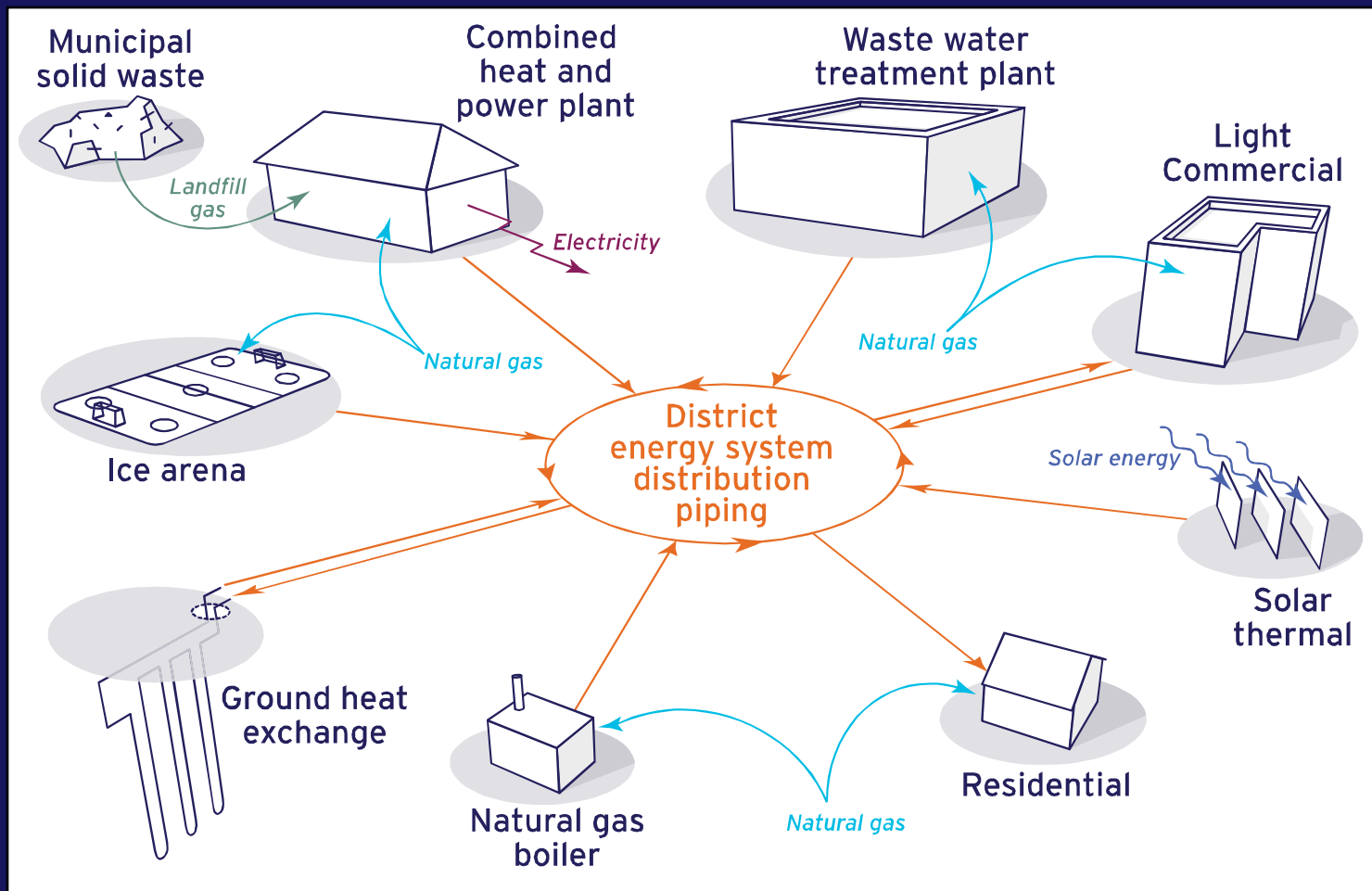
Infrastructure Planning



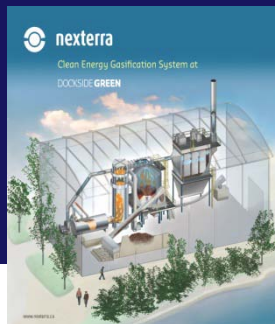
District Energy Systems

- \$200,000 approved in 2008 Capital Plan, all to be funded through grants
- Ready to engage Pre-Feasibility stage:
 - Emerging Market: Mapping and load scale
 - Downtown
 - Pandosy-Richter Corridor and Town Centre
 - Technical and Financial Screen criteria
 - Stakeholder & Public Consultation
- Next Steps:
 - Understand options
 - Serve as background documentation in funding applications for feasibility study
 - Used for pre-evaluating CO2 credit opportunity

District Energy Systems



Dockside Green



District Energy System



Project: Dockside Green
Developer: Vancity, Three Point Properties

Details: >1.3M sq.ft.
mixed-use

Location: Victoria, BC

Energy System:

- Biomass via gasification
- Sewer heat waste recovery



Vancity

Whistler Athlete's Village



Project: Whistler Athlete's Village

Developer: Resort Municipality of Whistler

Details: >460 units

Location: Whistler, BC

Energy System:

- Heat recovery from waste water effluent



Changing Community Values

- Rising public concerns about the climate change impacts of energy use
 - Climate Action Charter - City required to be CO₂ neutral by 2012, 33% reduction by 2020, 80% reduction by 2050
 - Utility costs are anticipated to increase
 - BC - Hydro to increase by 11% from 2008 -2011
 - BC - NG costs - will increase...
- Federal, provincial and municipal policy makers are responding, e.g.:
 - Grants available for Green energy
 - Kelowna
 - KGH lake cooling
 - OCU waste heat from Waste Water Treatment Plant
 - UBC-O aquifer geothermal



Resolutions

- Approve application for \$10k from Ministry of Community Development Infrastructure Planning Grant Program
- Approve adjustment to 2010 budget to spend \$20K of Energy Reserve managed by Energy Management Committee

Possible areas for DES in Kelowna

