



# Community Energy Action Plan Overview Challenge and Opportunity

**Prepared for:**  
**The District of Squamish**

**Prepared by:**  
**Holland Barrs Planning Group**

**February 2008**





## Overview

- **Context: Challenge and Opportunity**
  - Visionary changes
  - Big challenges
  - Great opportunities
- **Community Energy Action Plan**
  - Catalyst Projects & Innovative Policies
  - Strategic Process
  - Today's Agenda



## Context: Visionary Changes

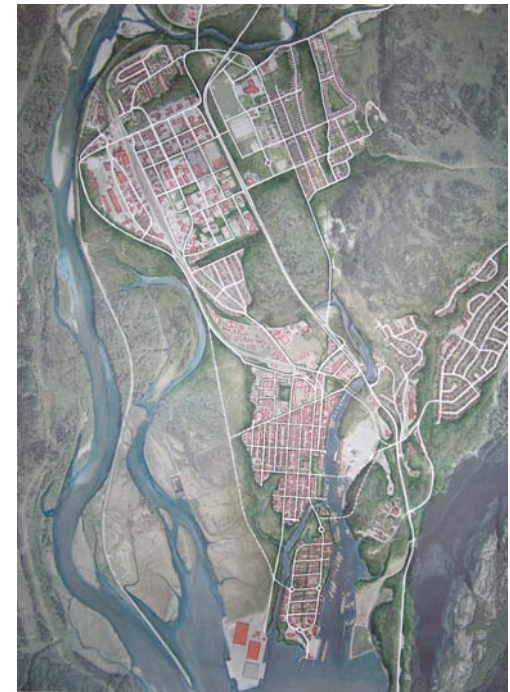
- Bridging to the Future
  - *Energy and GHG Inventory*
  - Overarching Vision & Targets
    - One Tonne Challenge
    - Diverse local energy sources and net positive energy
- Smart Growth on the Ground
  - Complete, compact, livable, walkable, prosperous, efficient
- Kyoto 12 Step Pledge
  - *Transportation options, renewables, efficiency, education*
  - *Kyoto target: 6% below 1990 levels*





## Context: Visionary Changes

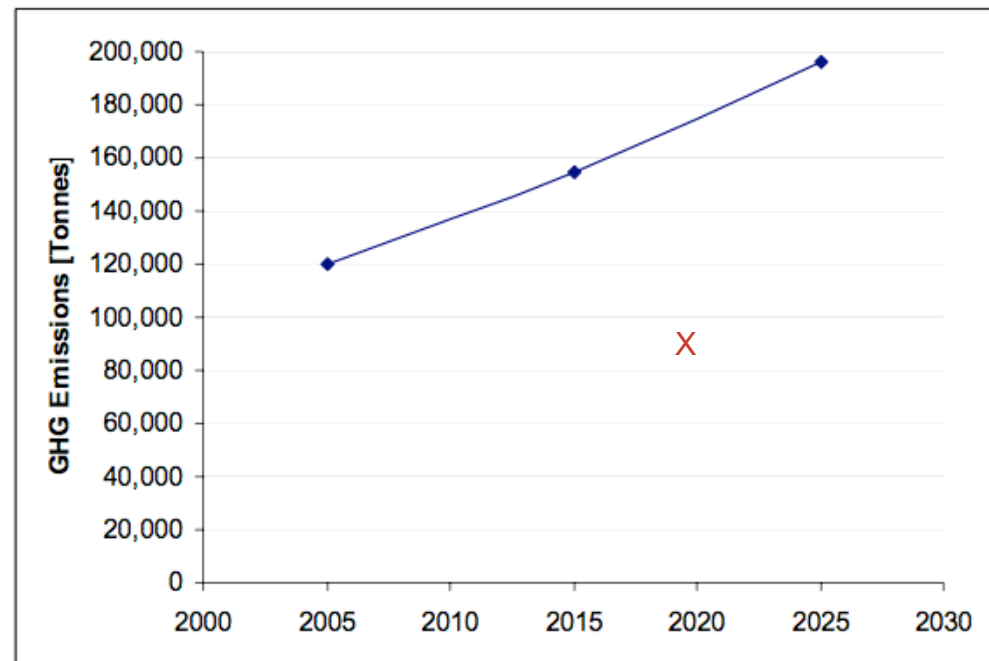
- Partners for Climate Protection
- OCP
  - Prosperous, resilient local economy
  - Cost effective, environmentally responsible municipal services
  - Foster conservation and efficiency
  - Minimize fossil fuel and increase renewables
  - Neighborhoods with transit, active transportation, and energy efficient modes
  - Attract sustainable energy companies and jobs
  - Demonstrate leadership





## Context: Big Challenges

- Local
  - 7.6 tonnes per capita per year
  - GHG forecast, 65% increase by 2025

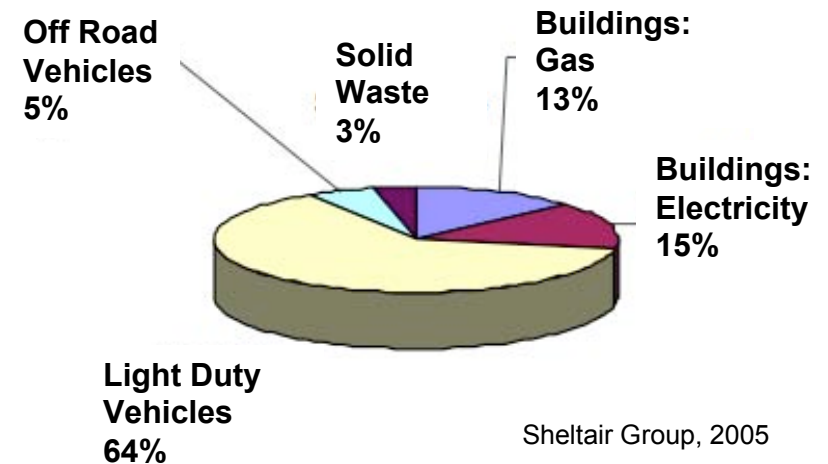


Sheltair Group, 2005



## Context: Big Challenges

- Local
  - 2/3 of emissions from transportation
  - 1/3 of workforce commutes to Whistler or Vancouver
  - *60% of housing is SFD*
  - Rapid population growth
  - Moderate economic decline





## Context: Big Challenges

- Provincial and Beyond
  - 33% reduction in GHGs by 2020
  - GHG targets in OCPs
  - Climate Action Charter Commitment
    - Carbon Neutral Local Government
    - Complete, compact, energy efficient
  - Electricity rates forecast to rise
    - 21% by 2010, \$180 per year (BC Hydro)
  - Price of carbon forecast to rise
    - Minimally \$30 tonne by 2010 (BC Gov)
  - Price of oil forecast to rise
    - \$150 a barrel by 2010 (CIBC)
  - Atmospheric stabilization
    - GHG peaking: 2015; 50-85% reduction: 2050 (IPCC, 2007)





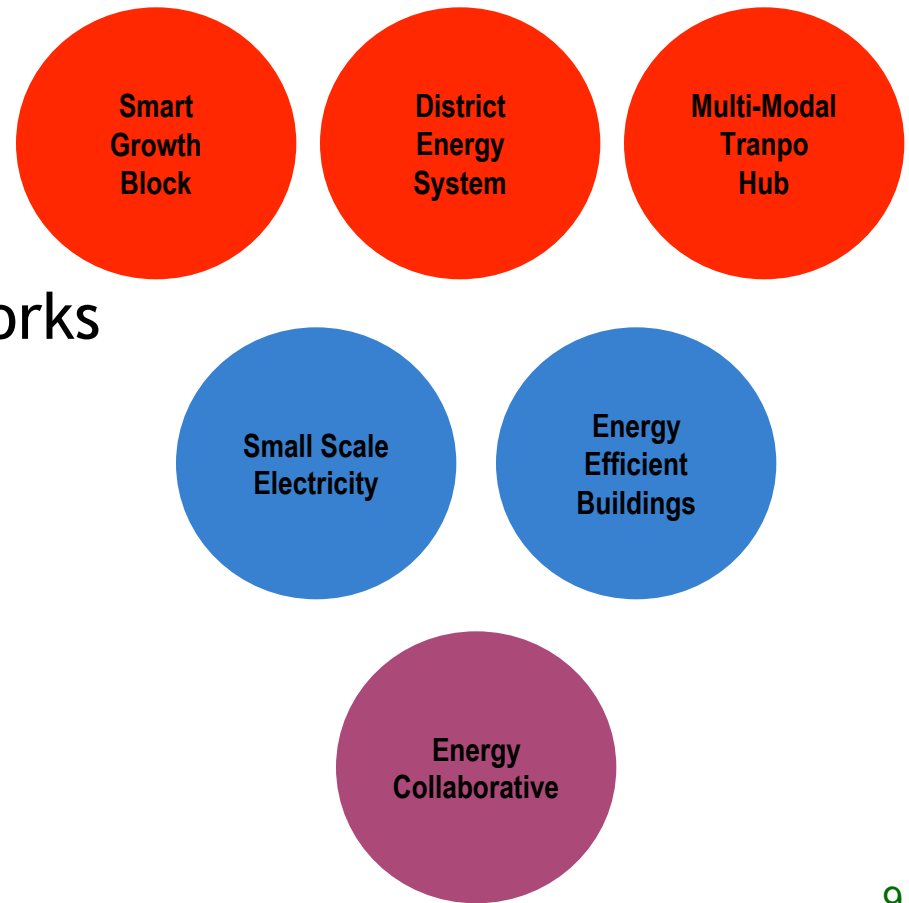
## Context: Great Opportunities

- Commitment to “incent” low carbon development
- Local investment opportunity: Squamish residents and businesses spend \$52 million annually on energy (2005)
- Offset policy is an opportunity for innovative investment
- BC’s per capita energy use per annum is below Canadian and US average, but significantly higher than rest of G8 (Stats Can, IEA)
- Opportunity to strengthen District’s fiscal performance
- Significant influence over immense new development
- Integrated economic, social, environmental agenda
- Growing appetite for green regulations and capacity building
  - CAEE, Smart Planning...
- Numerous great precedents



# Community Energy Action Plan

- Catalyst projects
- Innovative policy frameworks
- Strategic governance



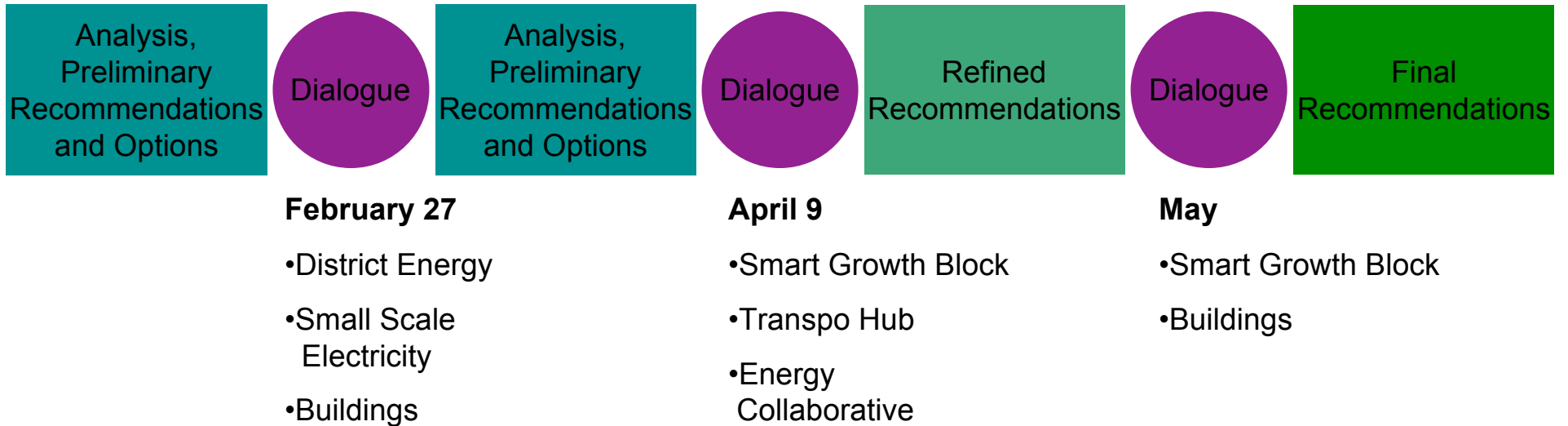


# Interdisciplinary Team

	Smart Growth Block	Small-Scale Renewables	District Energy System	Multi Modal Transpo Hub	New Building Efficiency	Municipal Building Efficiency	Energy Collaborative	Energy Master Plan
Bunt & Associates	Advise			Lead				Advise
Compass Resource Mngmnt	Advise	Lead	Lead		Advise	Advise		Advise
Holland Barrs Planning Group	Lead	Advise	Advise	Advise	Advise	Advise	Lead	Lead
Shaun Martin Consulting	Advise				Lead	Lead		Advise
West Coast Environment Law	Advise				Advise	Advise		Advise



# Policy and Planning Process





## Today's Agenda

- Program
  - 4 sessions
  - rotating resources and stakeholders
- Process
  - 1/2 presentation
  - 1/2 discussion
- Principle
  - Collaborative learning

Small Scale  
Electricity  
8:15-10:00

District  
Energy  
10:30-12:15

New  
Buildings  
1:00-2:45

Municipal  
Buildings  
3:15-5:00