

Project Overview

Objectives

Pop./Job Matrix

Common Strategies

Node intensification

Transport network

Green network

Energy systems

Sustainable City Core

100yr concept plan

Home and work

Go

Green

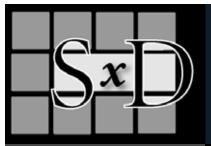
Project Vision

To be a vibrant, diverse, and highly livable community that provides for the social and economic needs of our community within a carbon zero environment by the City's 200th Birthday in 2107.









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Project Meta-Targets

- To achieve zero net greenhouse gas (GHG) emissions by 2107
- To reduce GHG by 80% below 2007 levels by 2050

Province of BC: Greenhouse Gas Reduction Targets Act (Nov. 2007)









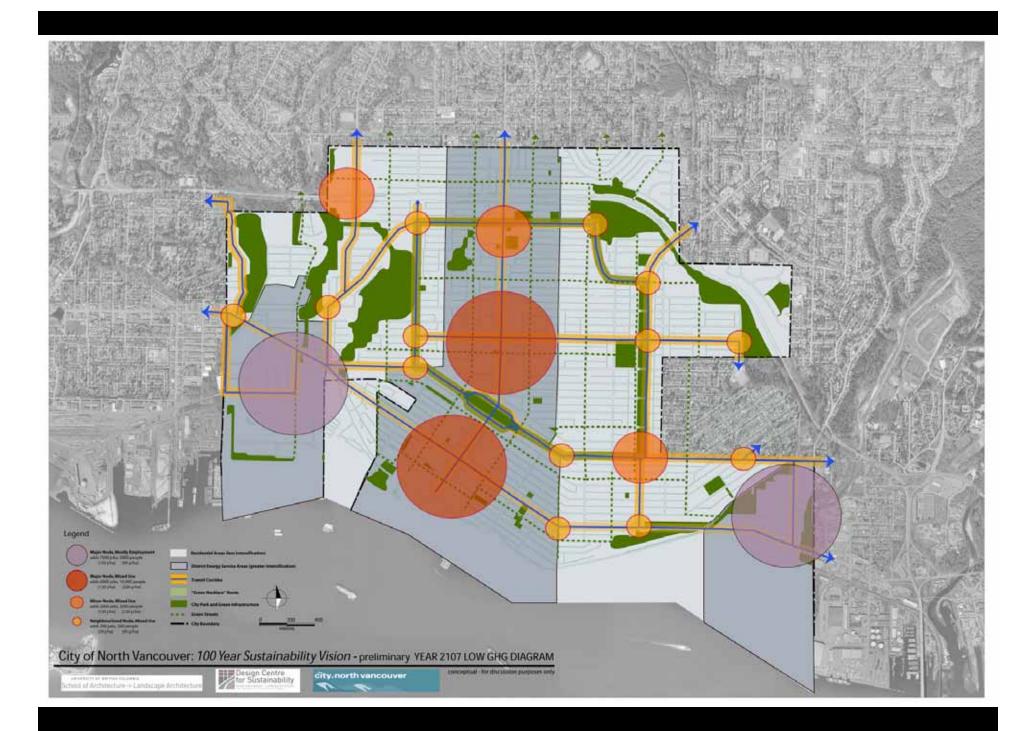
City of North Vancouver 100 Year Sustainability Vision

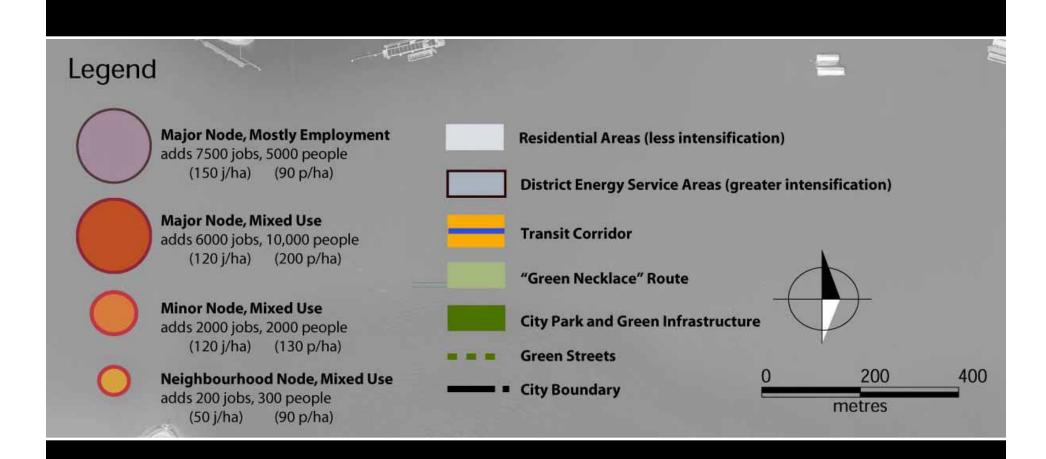
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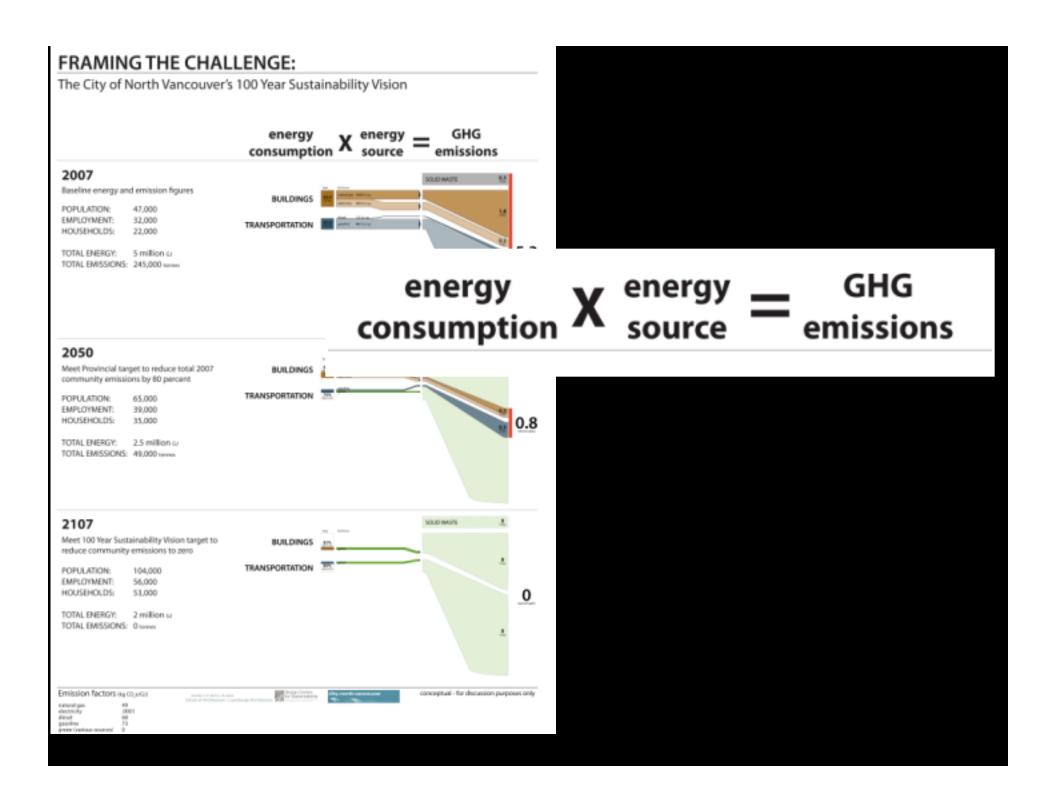




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2050 ASSUMPTIONS

- Attached/stacked buildings
- High performance construction
- Increased walkability
- Enhanced low-carbon transit
- Expanded district energy
- Zero emissions from waste

Energy consumption



Energy source







Energy consumptior	Energy source	GHG emissions	
		SOLID WASTE	0 Dilap
BUILDINGS	60% green		
TRANSPORTATION	70% reduction		
2050			0.5 0.8
	000		
Employment:	39,000		
Households:	35,000		
Total energy:	2.5 million GJ		
Total emissions:	49,000 tonnes		

2107 ASSUMPTIONS

- Attached/stacked buildings
- High performance construction
- Increased walkability
- Enhanced low-carbon transit
- Expanded district energy (co-generation)
- Additional low-carbon energy (City, Provincial)

Energy consumption







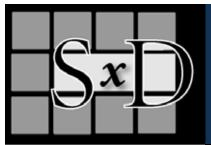
Energy source







Energy consumption	n	Energy source	GHG emissions		
	Table - Automation		SOLID WASTE	0 stop	
BUILDINGS	Net By Source				
TRANSPORTATION	80% role 1944			0	
2107					O
Population: 10	04,000		No.		
Employment:	56,000				
Households:	53,000			0 the	
Total energy:	2 millio	n GJ			
Total emissions:	0 tonne	es			



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City of North Vancouver

	Present	2107
People	45,000	135,000
Jobs	27,000	90,000



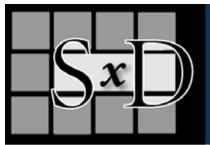


PRESENT AND PROJECTED TARGETS FOR THE DISTRICT OF NORTH VANCOUVER

 Approximate doubling of the District's overall population from: 83,000 (2006) to 80,000 (2107)

• In the two study areas:

LOWER CAPILANO AREA	PRESENT CONDITION (est)	2107 TARGETS
POPULATION	5,750	20,000
JOBS	2,000	8,000
LOWER LYNN/ MAPLEWOOD/	PRESENT	2107 TARGETS
LYNNMOUR AREA	CONDITION (est)	
LYNNMOUR AREAPOPULATION	CONDITION (est)4,500	25,000
	. ,	25,000 10,000

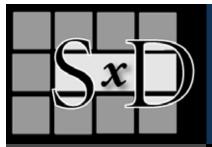


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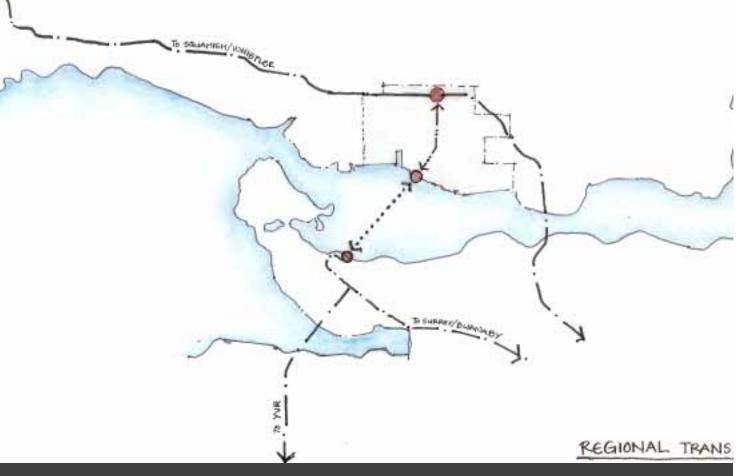






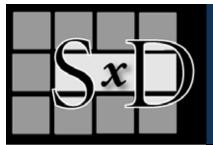
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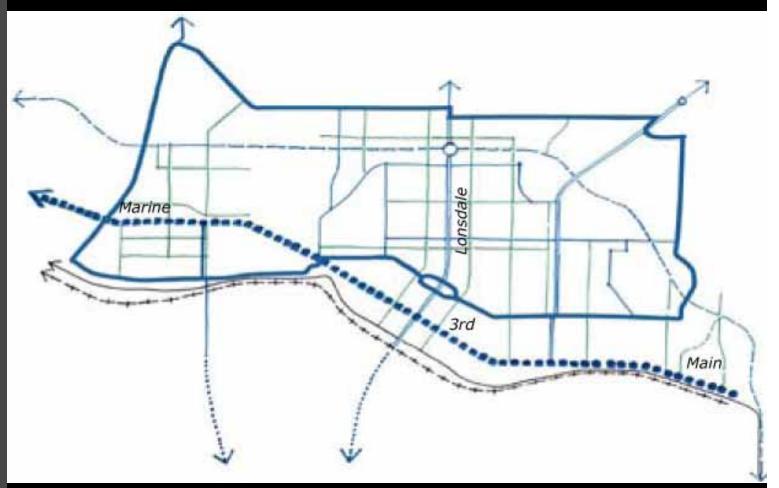






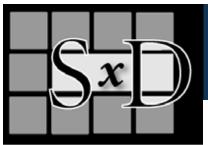
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Sustainability by Design

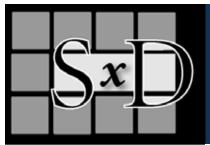
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EROUSE HOWN THIN SEYMOUR DAM WIND ENERGY. HYDRO CAPILANO DAM HYPRO MICEO HYDEO PLANT BLOG SOURCE HEAT POTENTIAL THERAY FROM SOUP WASTE TIPAL ENERGY TELLAEIE TREATHENT PLANT GEOTHERHUS ENERAY TIDAL HEAT PUMPS ENEREY

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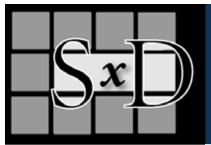
Node intensificatio

Sustainable City Core 100yr concept plan Home and work Go Green







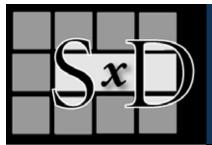


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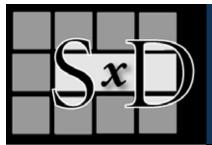
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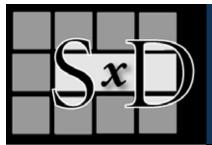
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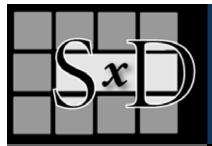


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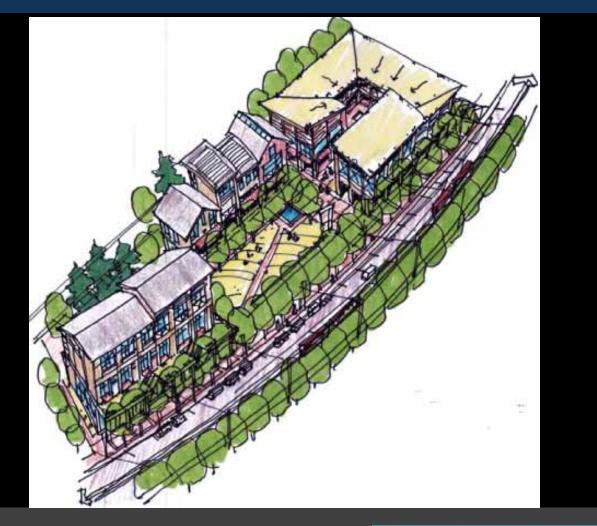




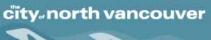


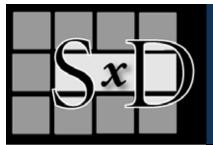


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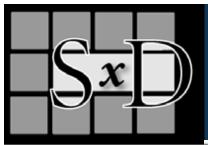


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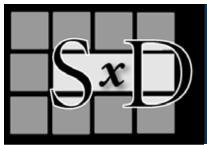
100yr concept plan Home and work Go

Green





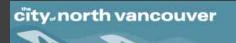


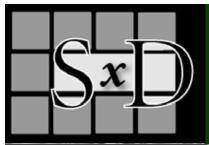


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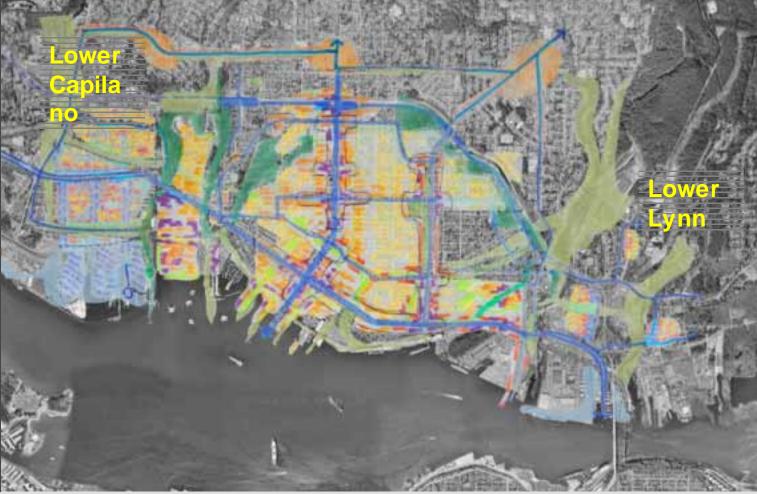


District of North Vancouver 100 Year Sustainability Vision

District Sustainable Nodes

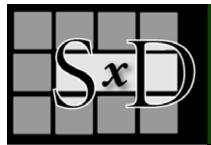
Day two plan

Lower Capilano Lower Lynn Home and work Go Green





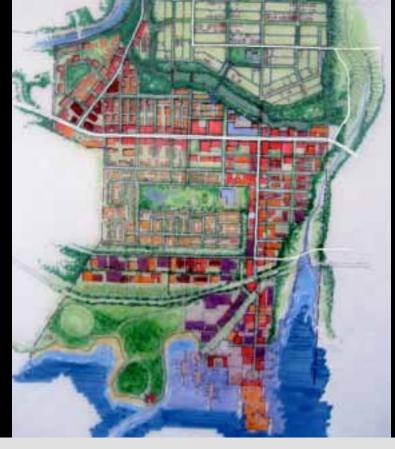




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District Sustainable Nodes Day two plan Lower Capilano Lower Lynn Home and work Go

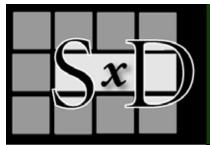
Green



100 Year Vision

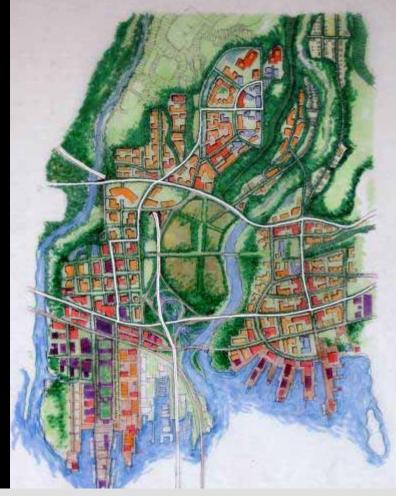






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100 Year Vision



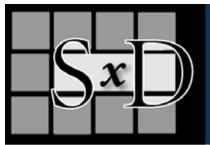


SAMPLE SKETCH OF 2107 VISION FOR TRANSPORTATION IN THE DISTRICT

Greenway/park TransCanada connection over the Highway TransCanada Highway becomes a multimodal transportation corridor Improved community linkages

100 YEAR VISION SKETCH OF NEW COMMUNITY CENTRE IN LOWER CAPILANO



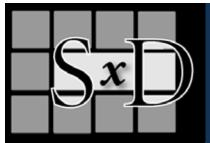


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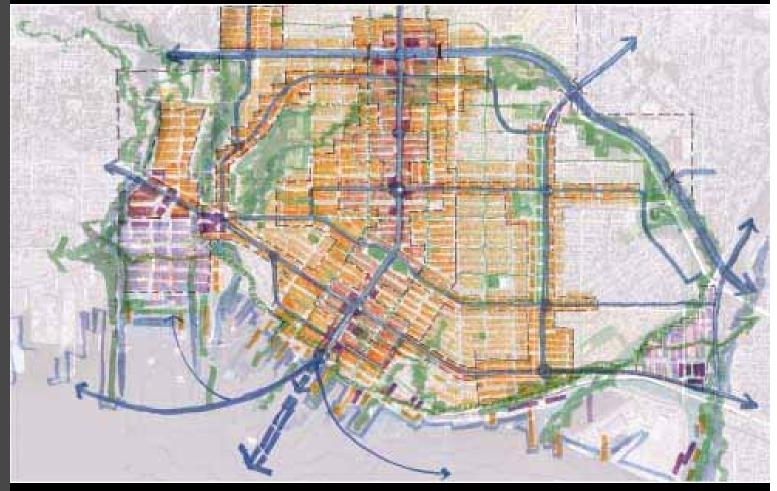






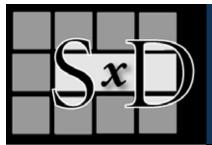


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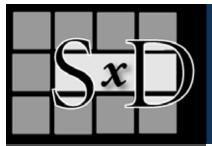


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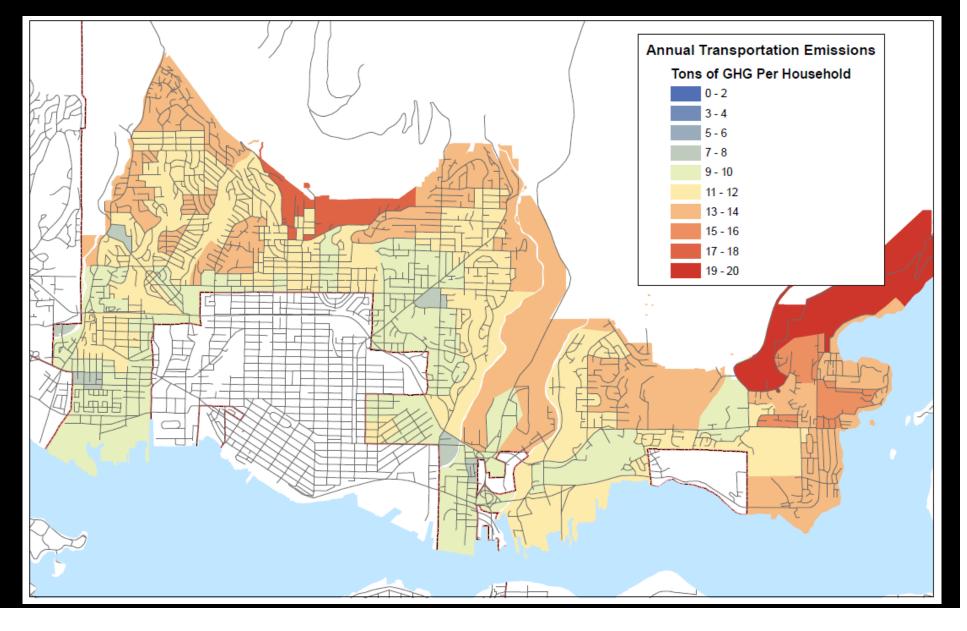




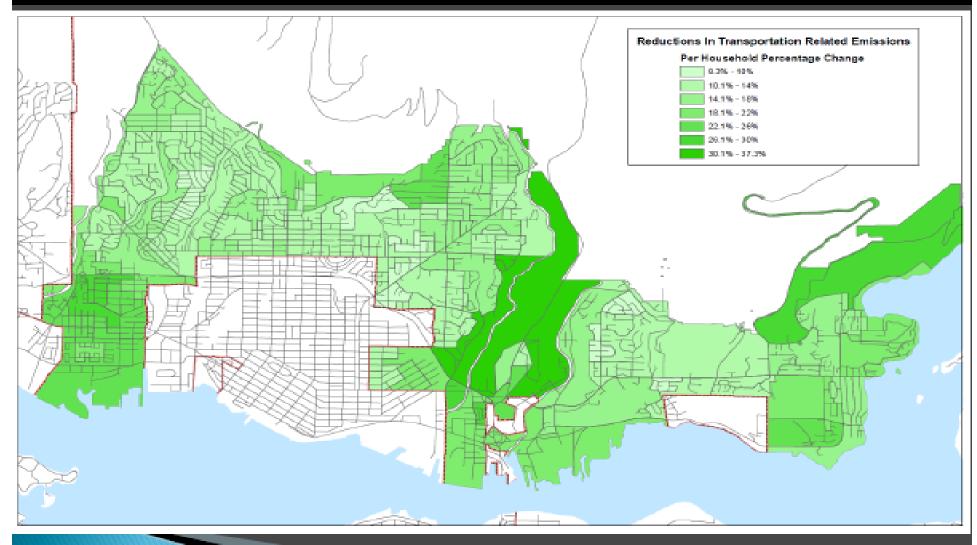


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CURRENT SCENARIO 2008 – TRANSPORTATION RELATED EMISSIONS



FUTURE SCENARIO 2031 – NET REDUCTION IN TRANSPORTATION RELATED GHGS



Net reductions/ household in transportation related GHGs from 37.3% to 8.3%

POTENTIAL ALTERNATIVE ENERGY SOURCES IN NORTH VANCOUVER

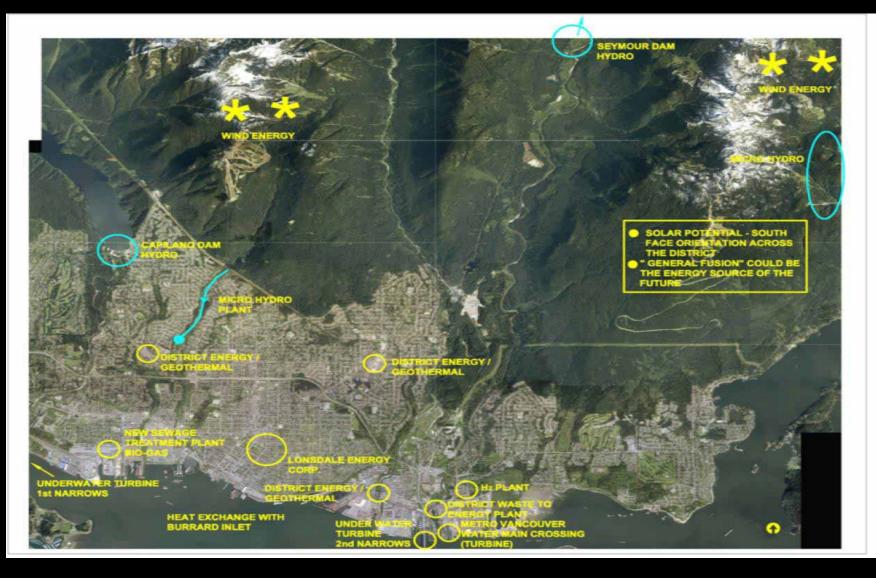
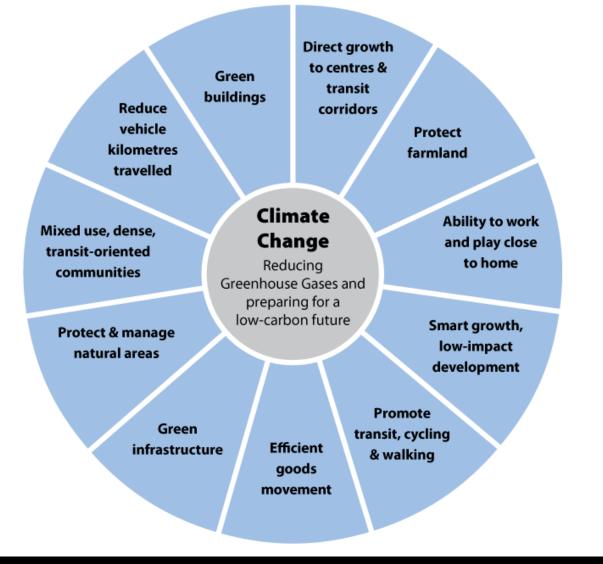


FIGURE 5 How Land Use and Transportation Strategies Contribute to Climate Action



Source: Metro Vancouver Regional Growth Strategy – Preliminary Draft









