Getting to Implementation in Edmonton

QUEST Workshop | June 18, 2015

Edmonton

NOT getting to implementation

Our original community target …

6% reduction by 2010

compared to 1990

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NOT getting to implementation

Our original community target …

6% reduction by 2010

compared to 1990

Actual: 2010 up 9%

Actual: 2014 up 27%

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Today …

- The path we've travelled since 2010
- What we've learned
- Why we think we're on a better path today
- The keys to implementation

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Strategy Development Process

Step 1	Step 2	Step 3	Step 4

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Strategy Development Process

Step 1	Step 2	Step 3	Step 4

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Strategy Development Process

What is sustainability?	Step 2	Step 3	Step 4

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Strategy Development Process

What is sustainability?	Step 2	Step 3	Step 4

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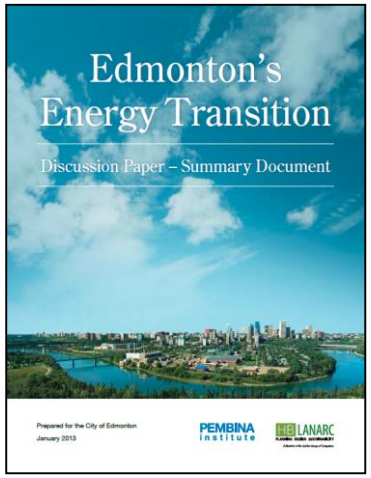
Strategy Development Process

What is sustainability?	What's possible?	Step 3	Step 4



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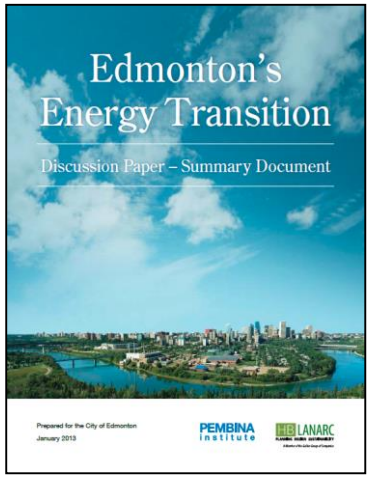
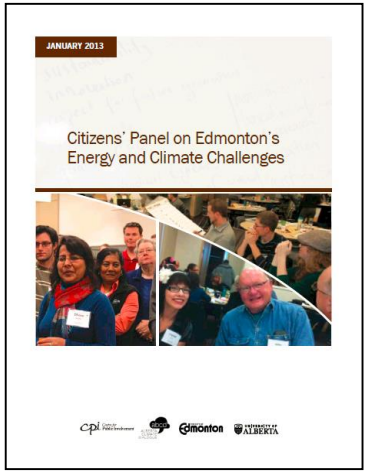
Strategy Development Process

What is sustainability?	What's possible?	What's supported?	Step 4





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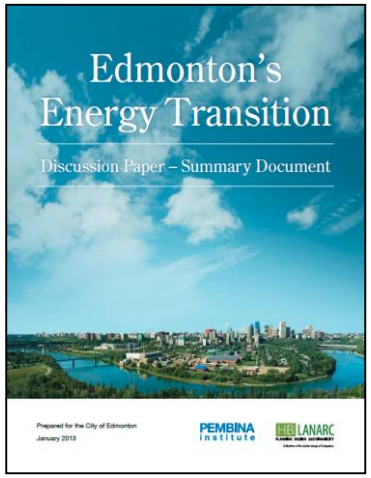
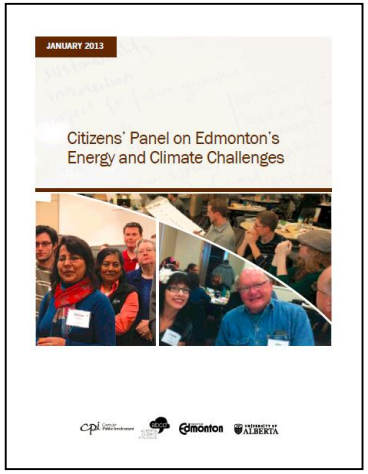
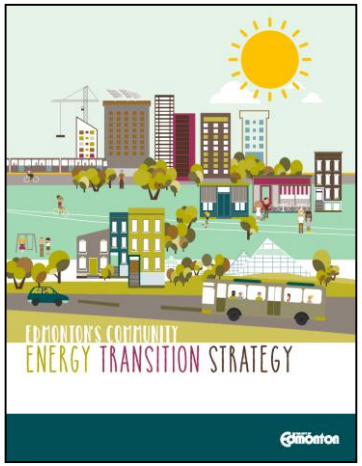
Strategy Development Process

What is sustainability?	What's possible?	What's supported?	What's justified?







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Why we will succeed this time …

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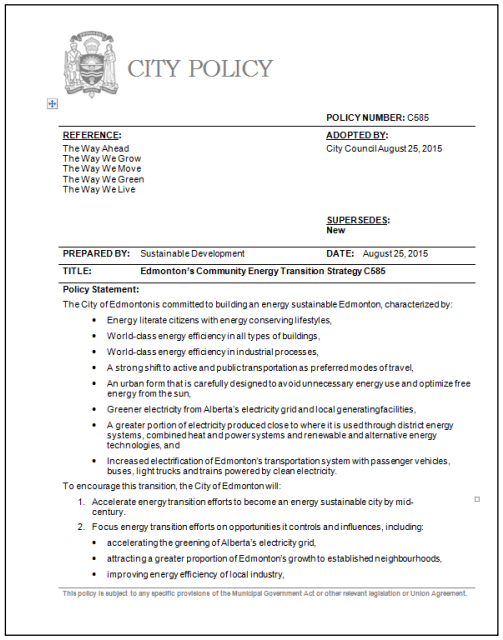
Why we will succeed this time …

1. We have a strong mandate and political buy-in.



CITY POLICY

POLICY NUMBER: C585

REFERENCE:
The Way Ahead
The Way We Grow
The Way We Move
The Way We Green
The Way We Live

ADOPTED BY:
City Council August 25, 2015

SUPERSEDES:
New

PREPARED BY: Sustainable Development **DATE:** August 25, 2015

TITLE: **Edmonton's Community Energy Transition Strategy C585**

Policy Statement:

The City of Edmonton is committed to building an energy sustainable Edmonton, characterized by:

- Energy literate citizens with energy conserving lifestyles,
- World-class energy efficiency in all types of buildings,
- World-class energy efficiency in industrial processes,
- A strong shift to active and public transportation as preferred modes of travel,
- An urban form that is carefully designed to avoid unnecessary energy use and optimize free energy from the sun,
- Greener electricity from Alberta's electricity grid and local generating facilities,
- A greater portion of electricity produced close to where it is used through district energy systems, combined heat and power systems and renewable and alternative energy technologies, and
- Increased electrification of Edmonton's transportation system with passenger vehicles, buses, light trucks and trains powered by clean electricity.

To encourage this transition, the City of Edmonton will:

1. Accelerate energy transition efforts to become an energy sustainable city by mid-century.
2. Focus energy transition efforts on opportunities it controls and influences, including:
   - accelerating the greening of Alberta's electricity grid,
   - attracting a greater proportion of Edmonton's growth to established neighbourhoods,
   - improving energy efficiency of local industry,

This policy is subject to any specific provisions of the Municipal Government Act or other relevant legislation or Union Agreement.

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Why we will succeed this time …

2. We understand the need for leadership and citizen engagement.

- Commitment to create a community leadership body
- Commitment to lead by example in City operations

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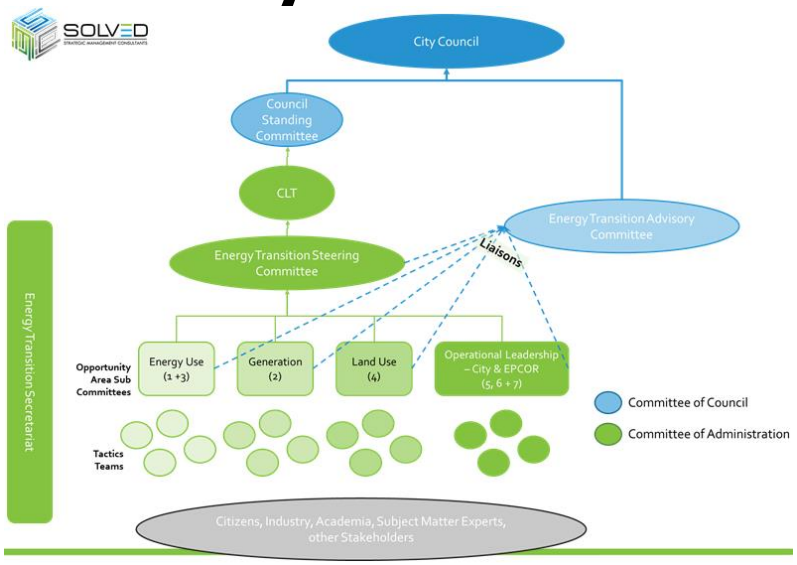
Why we will succeed this time …

3. We have a strong organization & accountability framework.



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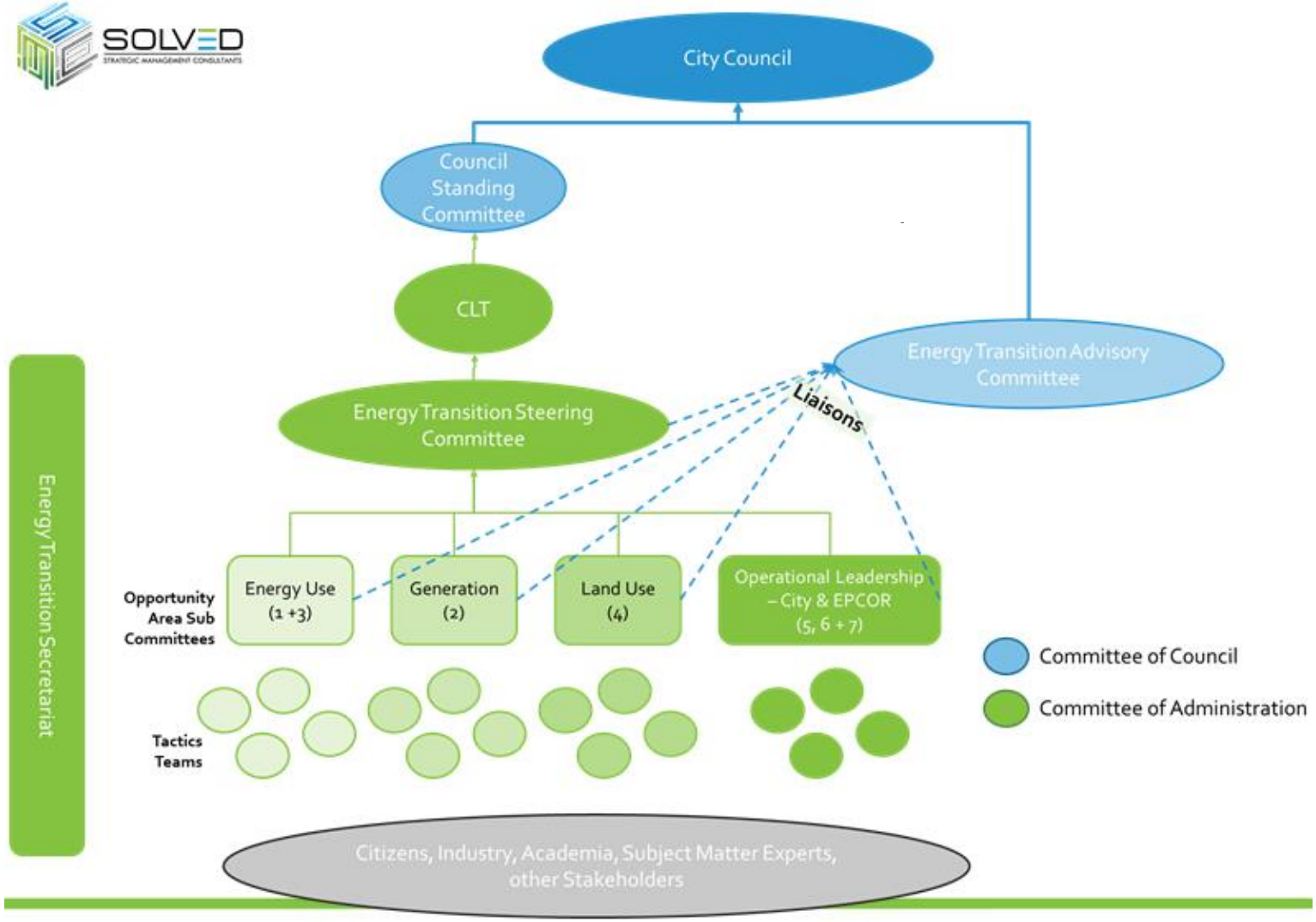
City Council
Council Standing Committee
CLT
Energy Transition Advisory Committee
Liaisons
Energy Transition Steering Committee
Energy Transition Secretariat
Opportunity Area Sub Committees
Energy Use (1 +3)
Generation (2)
Land Use (4)
Operational Leadership – City & EPCOR (5, 6 + 7)
Tactics Teams
Committee of Council
Committee of Administration
Citizens, Industry, Academia, Subject Matter Experts, other Stakeholders

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Why we will succeed this time …

4. We understand the solutions … their costs … their benefits. Budgets are being developed.

	Step 1 Foundation (2014-2017)		Step 2 Scaling-up (2018-2021)	Future Steps
	2016	2017		
New Funding	$1.9 M	$1.9 M	$30 M/yr	+$30 M/yr

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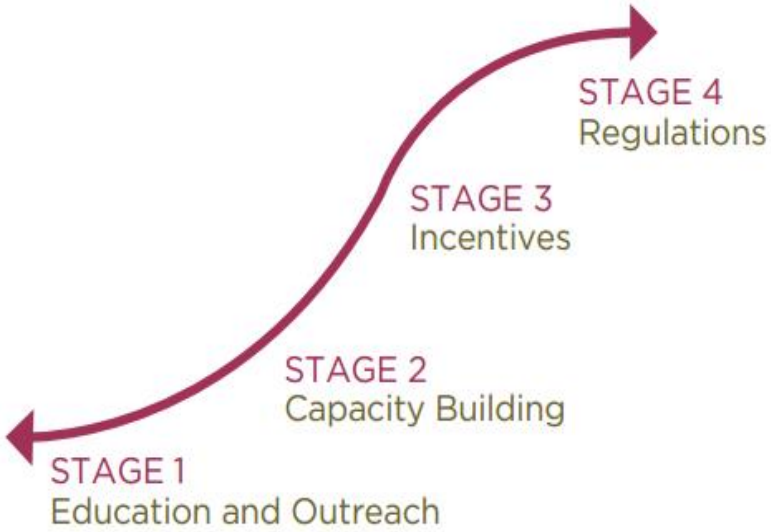
Why we will succeed this time …

5. Everyone understands the need for a market transformation approach.



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Why we will succeed this time …

6. Everyone understand the need for an Alberta-wide approach.

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Benefits?

Economic	• Private NPV = $2.5B • Public NPV = 3.3B • Competitive industry • Diversified economy • Global reputation
Social	• Cleaner air = healthier people • Mode shift = healthier people • Vibrant urban form = happier people • Safety: more resilient energy systems
Environmental	• Reduced risk – climate change • Reduced risk – dependence on fossil fuels • Benefits to air, water, biodiversity

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2035 Targets?

- **Climate Change Mitigation**

  35% reduction in GHG emissions (from 2005)

- **Energy Efficiency**

  25% reduction in energy use per person

- **Energy System Resilience**

  10% of Edmonton's electricity generated locally

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