



Planning for the Future

Urban Planning & Economy

Edmonton

Our City Plan Story & Climate Resilience

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November 5, 2021

What We Heard From Council

Edmontonians are

- Passionate about their communities - how they're planned, engaged, developed
- Excited by The City Plan
- Concerned about the financial sustainability and affordability of the city
- Dedicated to climate resilience
- Asking to be heard and treated respectfully

Our City Plan Story

we are all



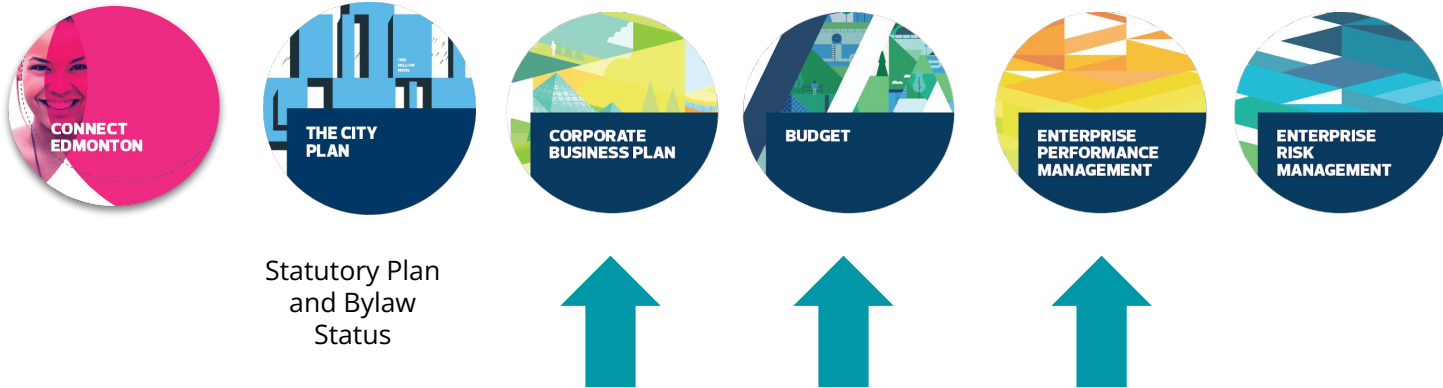
Our City Plan Story



**ONE
MILLION
MORE**

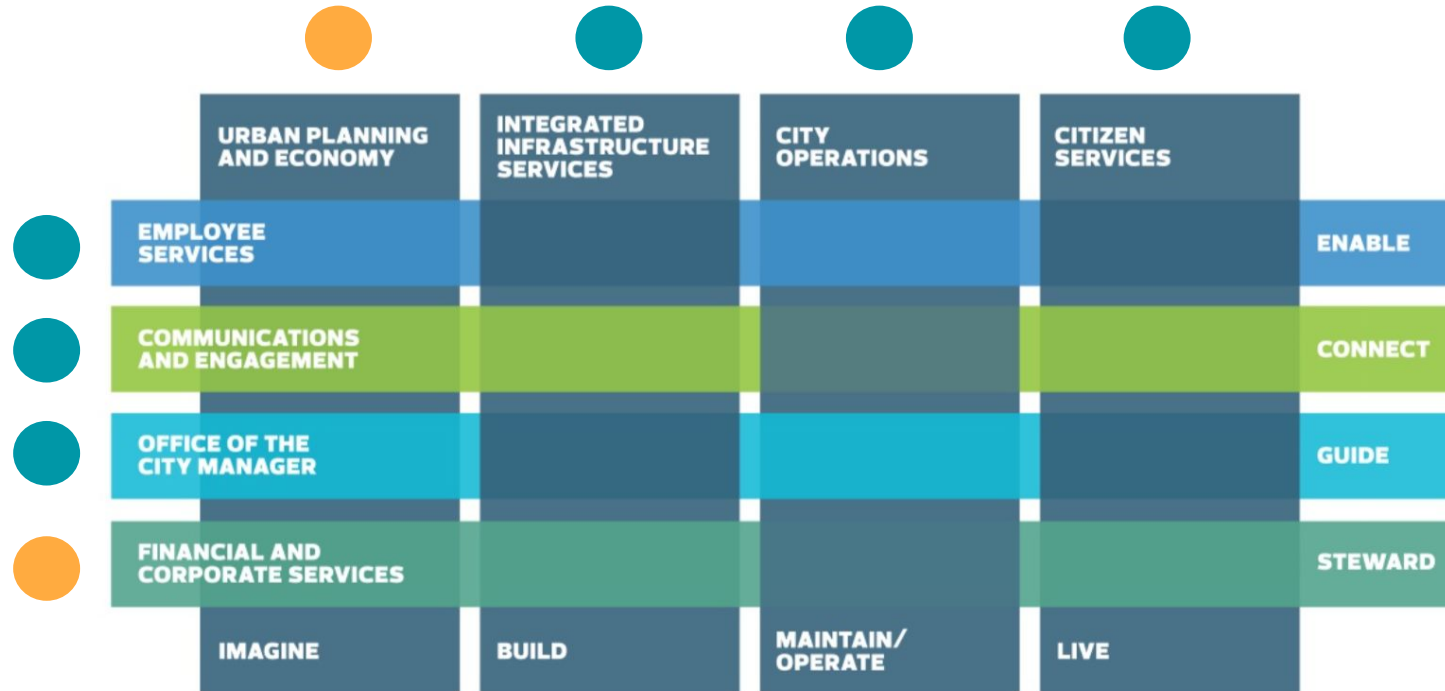
Edmonton

Strategic Wayfinding



Implementation of The City Plan will happen through the Corporate Business Plan and the Budget. Progress will be monitored through Enterprise Performance Management.

Corporate Wayfinding



 = Lead Departments  = Supporting Departments

The Next 90 Days of City Plan Implementation

In the next
30 days...

- Support preparation and prioritization of budgets by Finance and Corporate Services.

In the next
60 days...

- No governance level decisions anticipated.

In the next
90 days...

- Update on communications and engagement for the District Planning project to UPC.
- Mobility Network related reports to UPC for information to inform the 2023-2026 capital budget and 10 year capital plan.

Built with Edmontonians, for Edmontonians

ENGAGEMENT



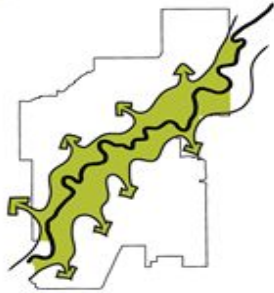
Technical Studies

1. **Economic, Demographic and Market Study**
2. **Mass Transit Study**
3. **Relative Financial Assessment**
4. **Greenhouse Gas and Energy Modelling**
5. **Climate Vulnerability Risk Assessment**
6. **Planning for Disruption**



Big City Moves

GREENER AS WE GROW



CATALYZE AND CONVERGE



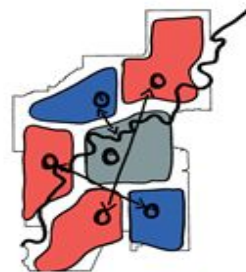
**INCLUSIVE AND
COMPASSIONATE**



A REBUILDABLE CITY



**A COMMUNITY
OF COMMUNITIES**



Edmonton

Expected Results

- 1 Save more than 5,000 hectares from land development
- 2 Actively support redevelopment
- 3 Reduce Greenhouse Gas Emissions
- 4 Attract and retain an additional one million people
- 5 Increase the number of daily cycling, walking and public transit trips by 50%
- 6 Improve Edmonton's long-term fiscal performance

The Big Decisions - Projects and Initiatives

THE PLAN IN ACTION

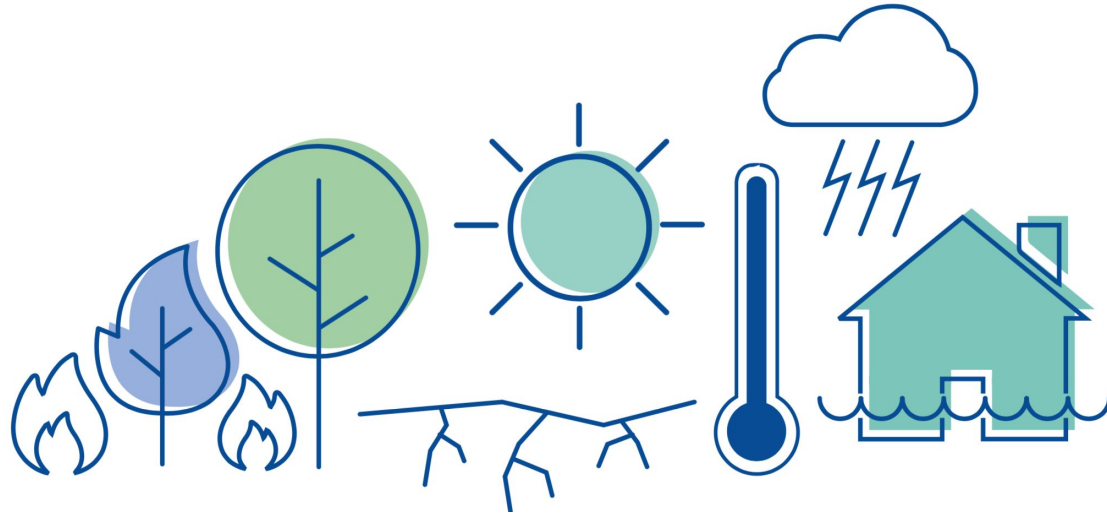


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Edmonton's Climate Change Plan

- Energy Transition Strategy
- Climate Resilience Strategy

CLIMATE CHANGE IMPACTS EDMONTON

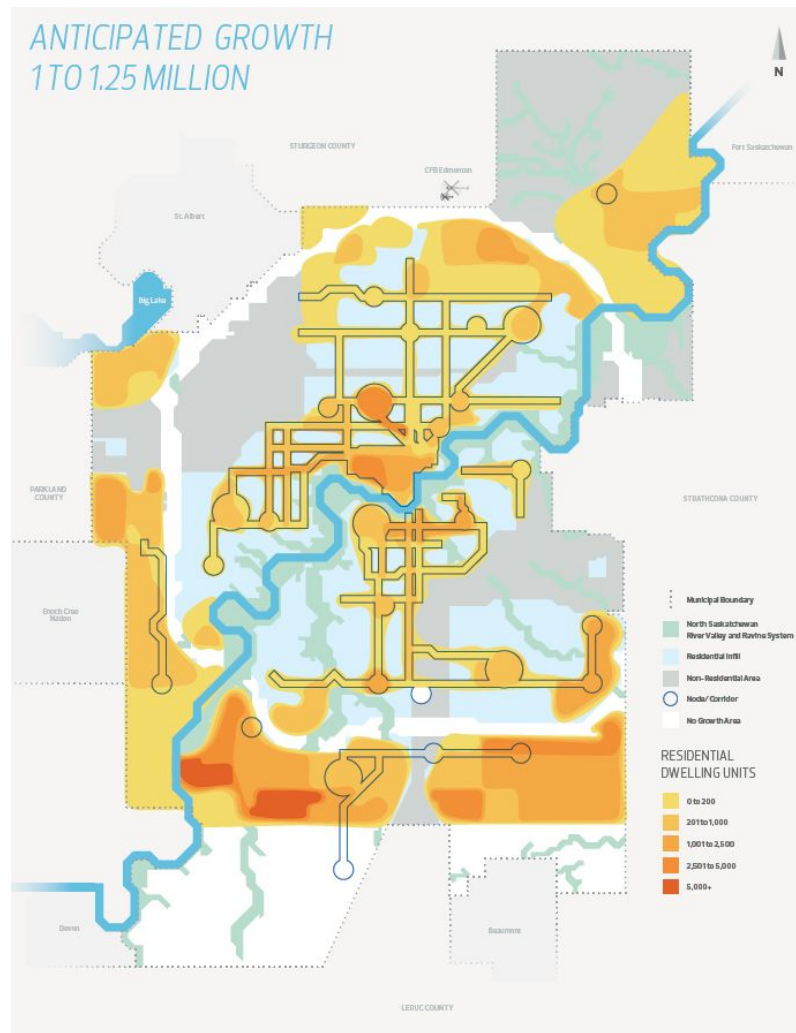


District Planning

A new approach to
land use planning



Growth Management Framework

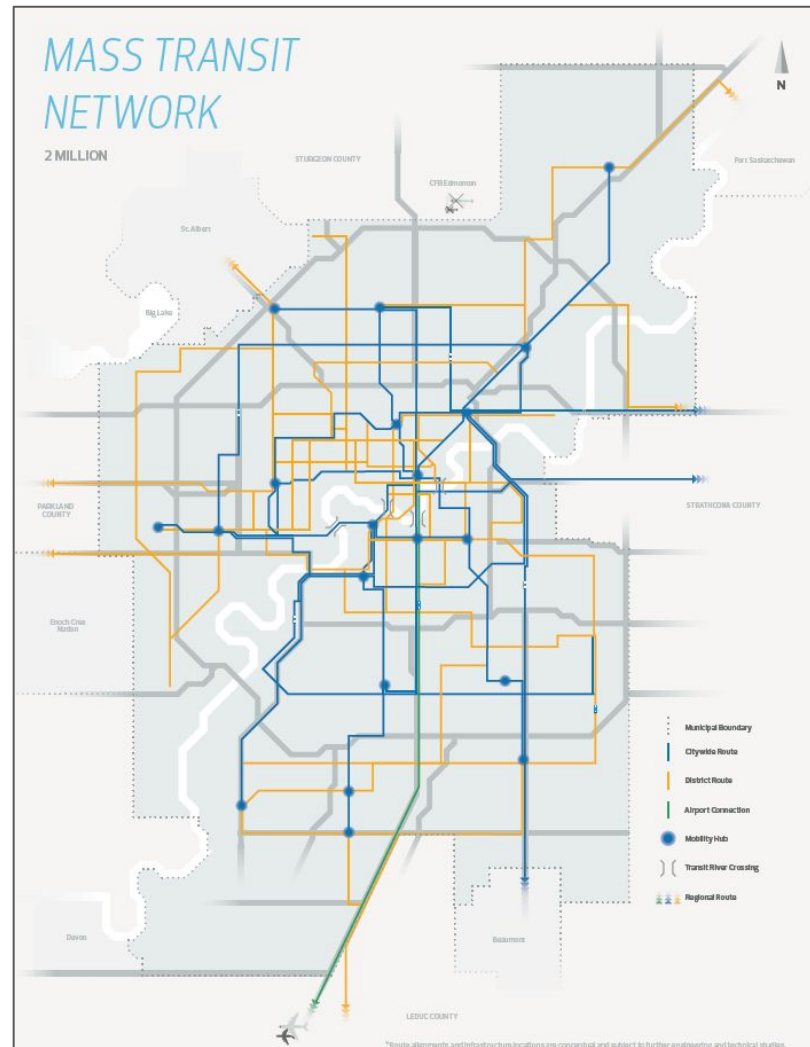


Mobility

Mobility Network
Assessment

Mass Transit Study

Bike Plan
Implementation Guide



River Valley Planning Modernization



Zoning Bylaw Renewal + Economic Action Plan

NEW ZONING BYLAW



REZONING



IMPLEMENTATION



TECHNOLOGY



Measurement and Targets





Serving Edmontonians

Urban Planning & Economy



Edmonton

Climate Resilience

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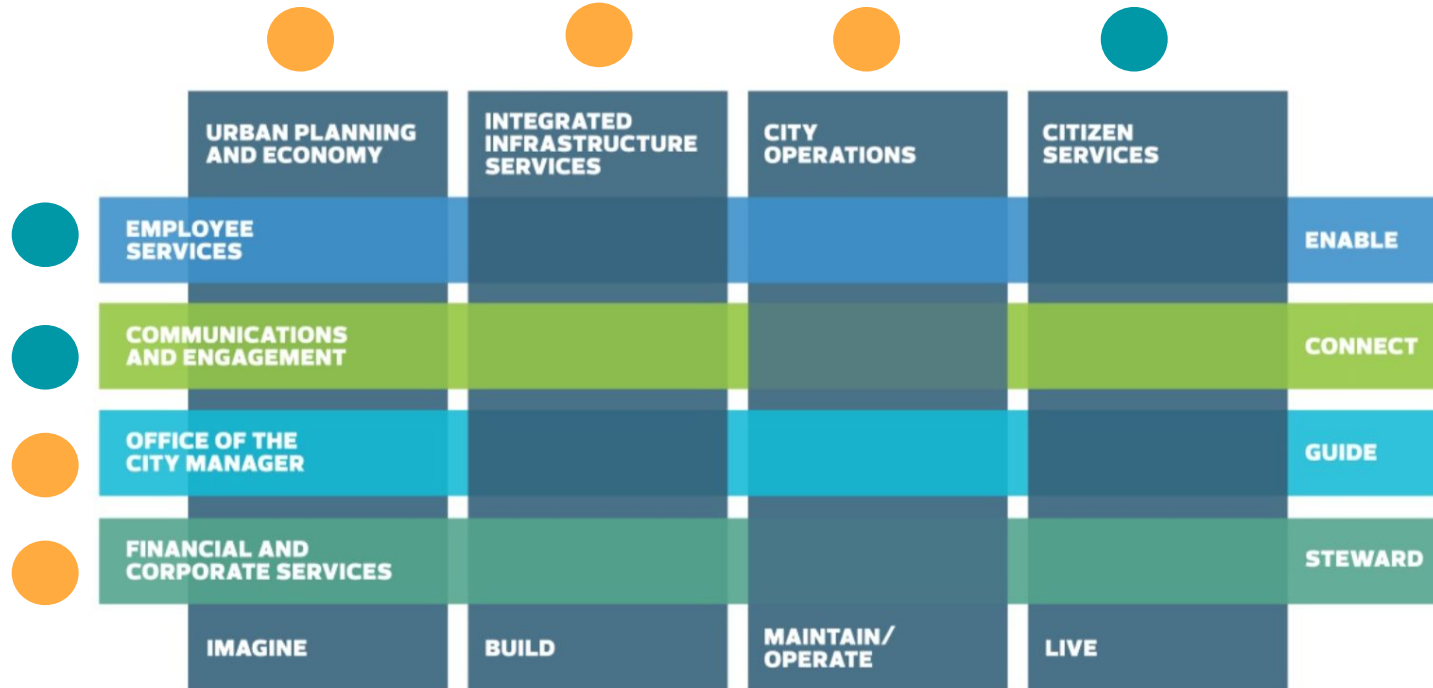
November 5, 2021

Strategic Wayfinding



The climate resilient strategies set the pathways for achieving climate resilience goals and policies outlined in ConnectEdmonton and the City Plan.

Corporate Wayfinding

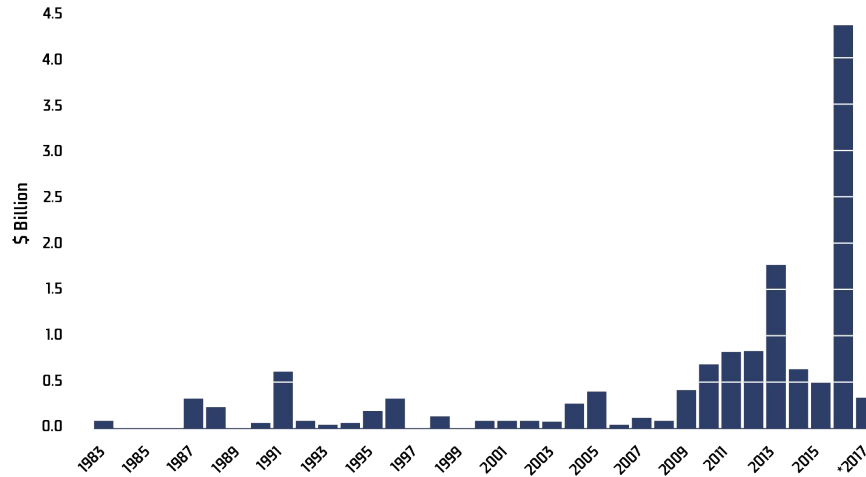


Orange circle = Lead Department(s) Teal circle = Supporting Departments

The Challenge - Economic Future at Stake

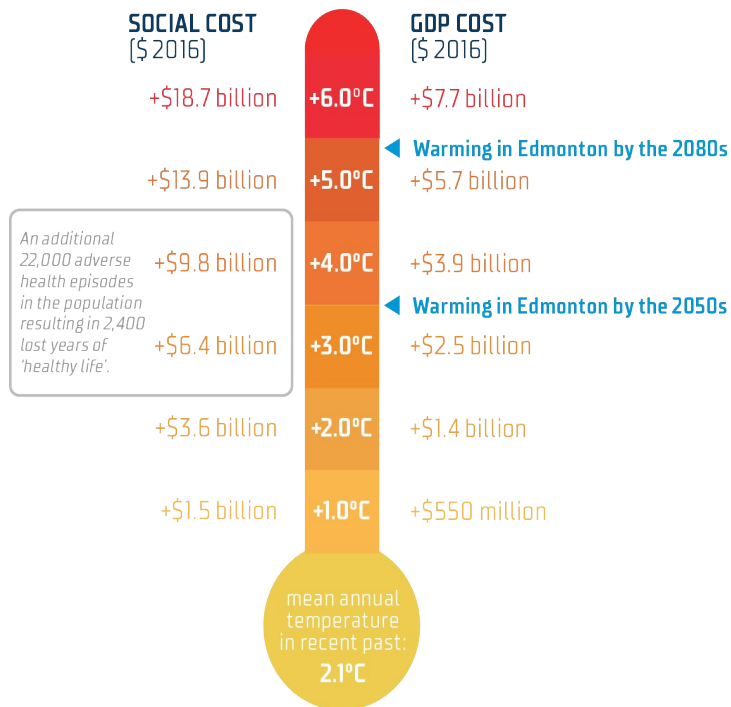
“Alberta has become
the place where bad
weather pays a visit
more often”

*Don Forgeron, President and CEO,
Insurance Bureau of Canada, 2013*



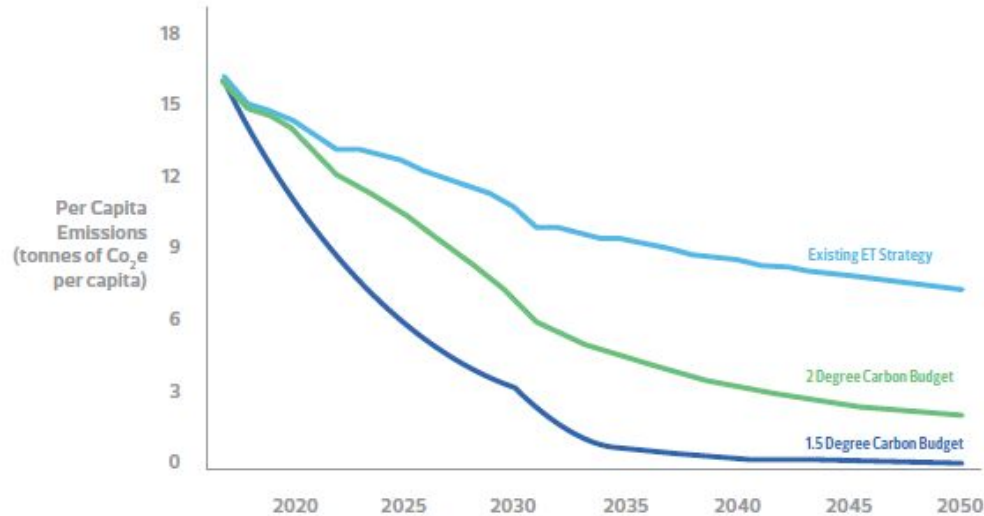
Source: IBC Facts Book, CatIQ, Swiss Re, Munich Re & Deloitte
Loss Values in 2017 Canadian Dollars
*2017 Preliminary

The Challenge - Climate Change Impacts



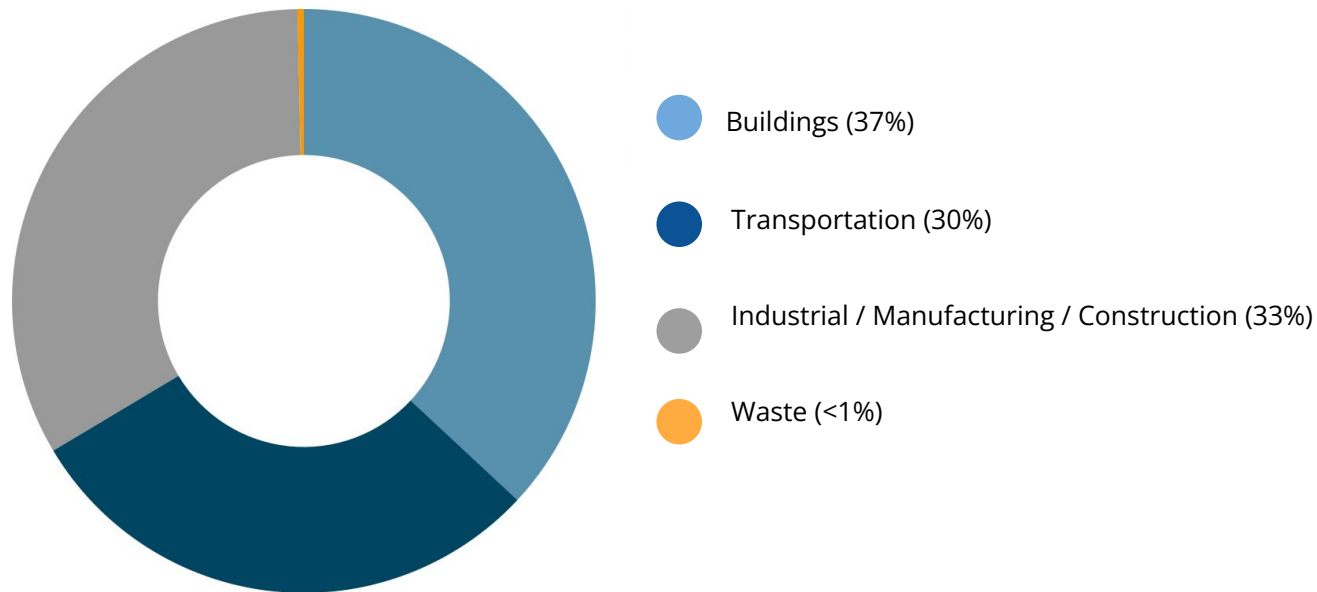
- Increased risk of urban flooding, more frequent and intense weather events, changing ecosystems
- Edmonton's GDP could be reduced by \$3.2 billion annually on average by the 2050s
- An additional 22,000 health incidents a year are expected to occur by the 2050s

The Challenge - Greenhouse Gas Emissions



- **Edmonton has one of the highest per capita greenhouse gas emissions levels in the world**
- **Following a local carbon budget requires rapid reduction of emissions and carbon neutrality by 2050**

The Challenge - Emissions



Coal electricity is required to be phased out by 2030 and is projected to be phased out by 2023.

The Opportunity - Critical to Edmonton Economic Action Plan

\$10's

TRILLIONS
INVESTMENT
GLOBALLY

\$80

BILLION
CANADA'S GDP BY 2025
FROM CLEAN TECH

\$1.79

BILLION
REGIONAL GREEN ENERGY
ECONOMY
(2016)

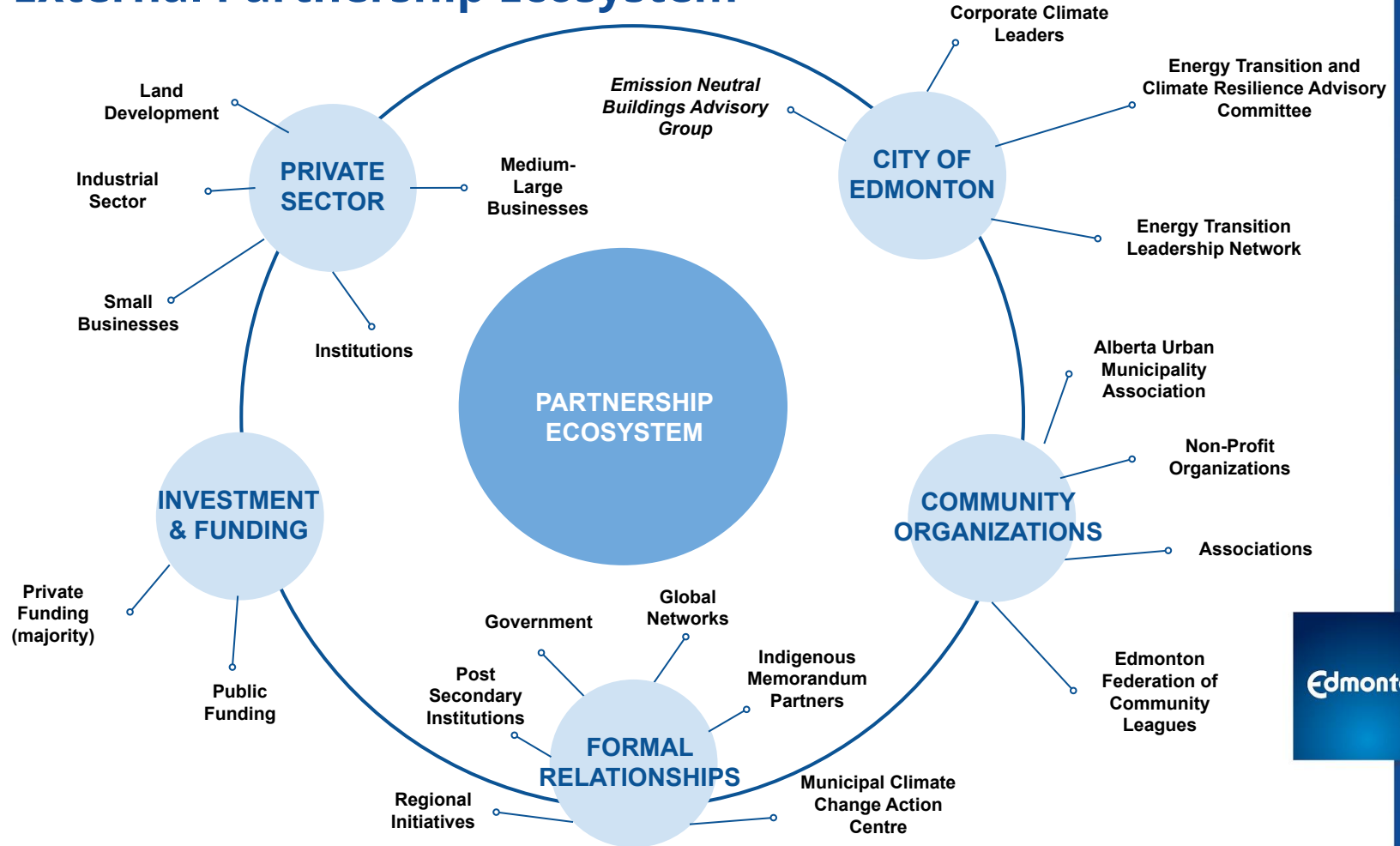
The energy transition will define the global economy
of the 21st century

What We Are Hearing - Resident Perceptions

74% CONCERNED ABOUT CLIMATE CHANGE

75% AGREE ON THE NEED TO TAKE ACTION NOW

External Partnership Ecosystem



Critical Partners - Federal and Provincial Policy

FEDERAL

- Net-zero emission by 2050
- Carbon Pollution Pricing
- Grants - Greener Homes, EV Rebates
- Zero-emission vehicles by 2035 & Active Transportation Fund
- Infrastructure - clean energy, retrofits, zero-emission buses and charging
- Nature-based climate solutions

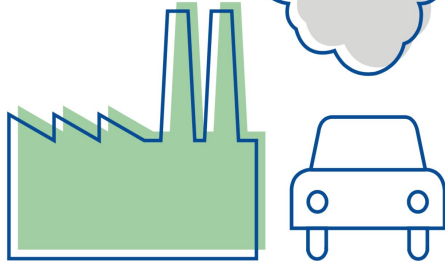
PROVINCIAL

- Large industrial emitters
- Energy Savings for Businesses Grant
- Clean Energy Improvement Program (CEIP) Regulation

ENERGY TRANSITION

transitioning to a
low carbon future

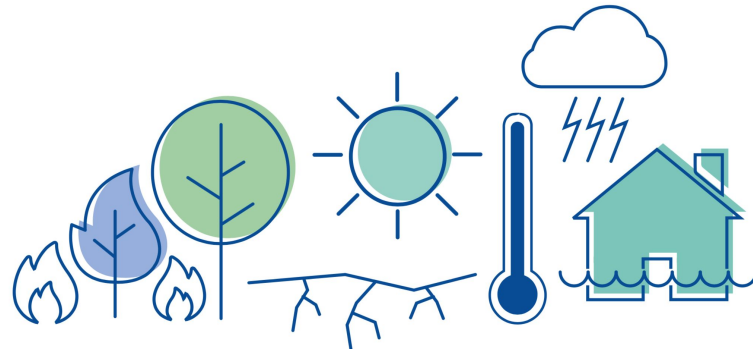
GREENHOUSE GAS EMISSIONS
CAUSE CLIMATE CHANGE



ADAPTATION

adapting to a
changing climate

CLIMATE CHANGE
IMPACTS EDMONTON



Edmonton

Climate Change Action

ENERGY TRANSITION

- Energy Benchmarking and Mapping
- Energy retrofit rebates
- Solar Rebates
- Business and Home Resources
- Soon to Launch Client Energy Improvement Program - 2 year pilot
- Blatchford
- District Energy
- LRT Extension
- Electric Buses
- Protected Bike Lanes
- Curbside EV charging

ADAPTATION

- Flood Mitigation
- Green Leagues
- Resources
 - [Climateresilienthome.ca](https://climateresilienthome.ca)
 - Edmonton's Climate Change Almanac
- Wildfire risk mapping
- Tree Vulnerability Assessment
- Pest Vulnerability Assessment
- Infrastructure risk assessments
- Phase 1 Water Security Assessment

Upcoming Council Decisions

Date	Decision & Impact
Q2 2022	<p>Progress Report</p> <ul style="list-style-type: none">• progress towards achieving targets and carbon budget• corresponding corrective actions that should return through the appropriate budget discussions at Council
Q4 2022	<p>Budget Deliberation</p> <ul style="list-style-type: none">• First time the City will use integrated financial and carbon budgeting framework• Energy Transition - propose up to \$100 million annually• Additional funding required to adapt infrastructure and services

Desired Outcomes

**DECISIONS MADE TODAY ABOUT HOW WE DESIGN
AND BUILD OUR CITY, TRANSPORTATION
SYSTEMS, INFRASTRUCTURE AND ENERGY
WILL SET THE COURSE FOR OUR FUTURE
CLIMATE RESILIENCE.**

Levers of Change

1. Policy
2. Partnerships and Advocacy
3. Incentives, Pricing and Subsidies
4. Infrastructure Investment



*Planning for
people*

"Levers to enact change are critical to achieving City building outcomes."



**THANK
YOU**

Edmonton

Thank you.

November 3, 2021
edmonton.ca/city_government/environmental-stewardship

Edmonton