UPDATING EDMONTON'S COMMUNITY ENERGY TRANSITION STRATEGY

Andrea Soler, Maurya Braun, Andrew Read & Abhishek Chakraborti

March 2020







CONNECT(ED) MONTON







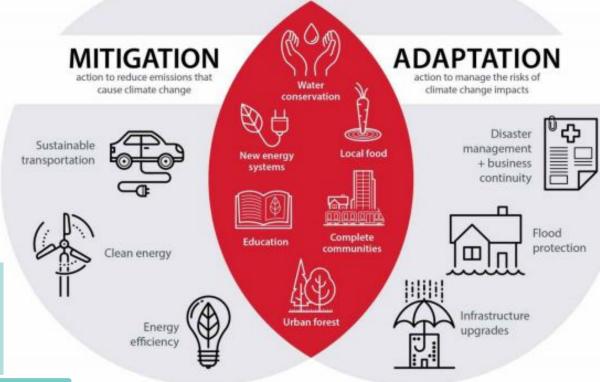
URBAN PLACES



REGIONAL PROSPERITY



CLIMATE RESILIENCE





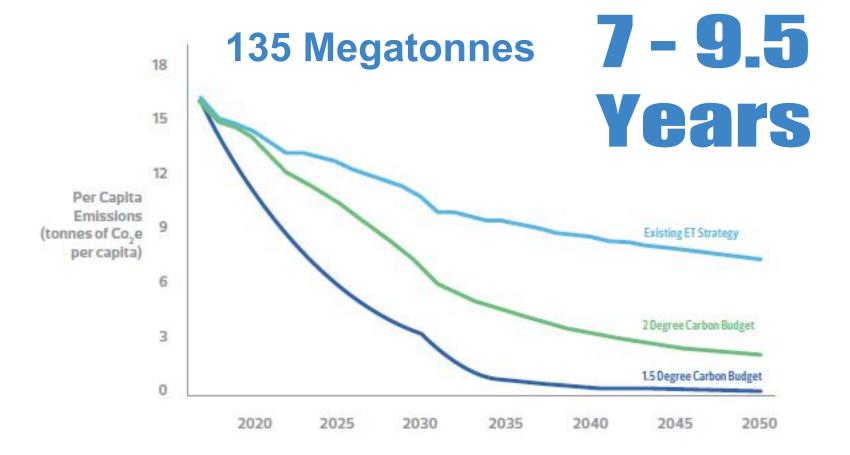
CHANGE FOR I



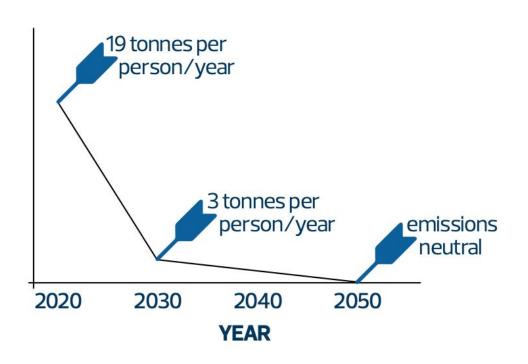


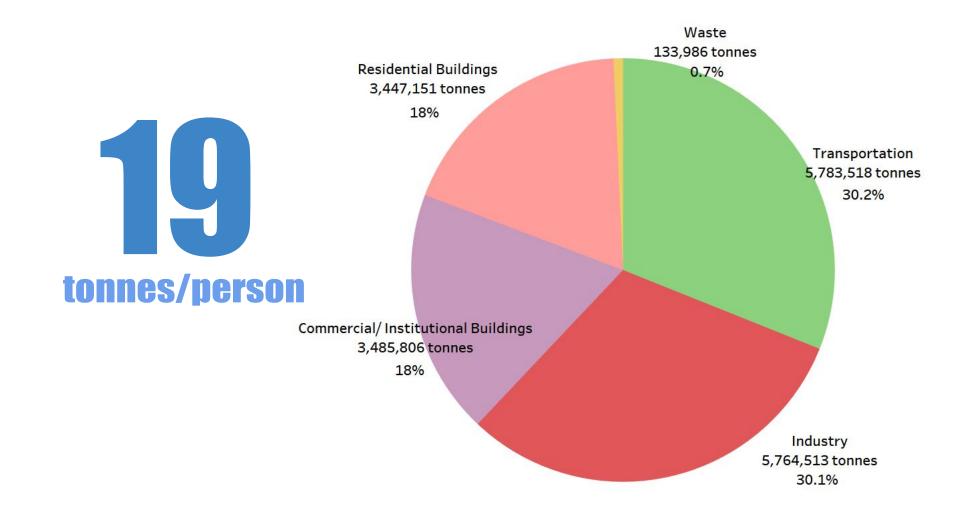






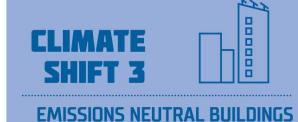
Local carbon budget: 135 Megatonnes















RENEWABLE REVOLUTION & CIRCULAR ECONOMY





JUST AND EQUITABLE TRANSITION

CLIMATE SHIFT 6

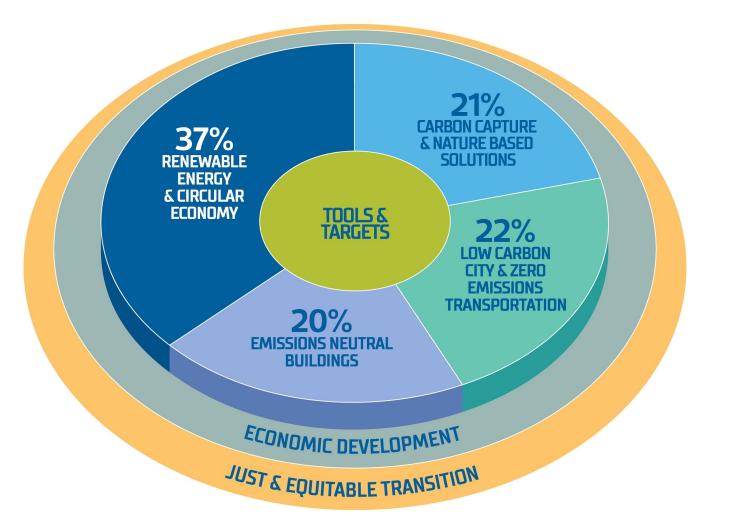


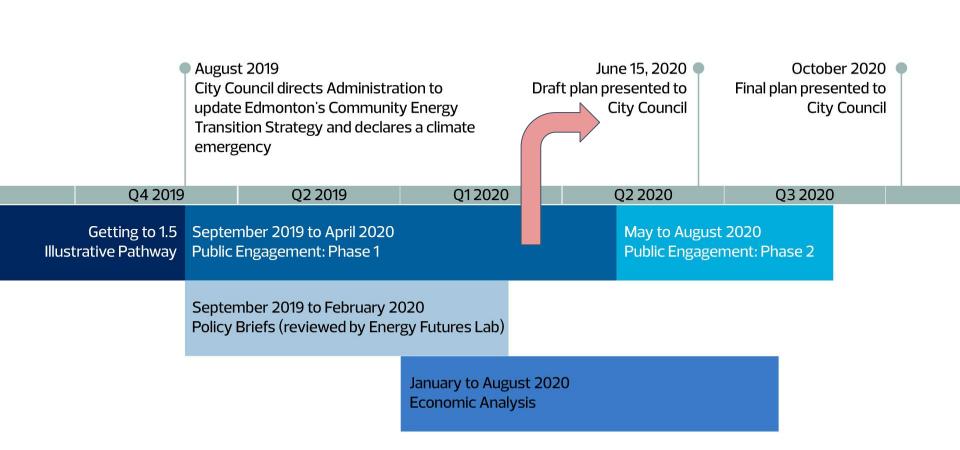
CARBON CAPTURE AND NATURE BASED SOLUTIONS

CLIMATE SHIFT 7



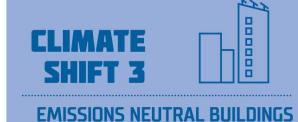
ECONOMIC DEVELOPMENT















RENEWABLE REVOLUTION & CIRCULAR ECONOMY





JUST AND EQUITABLE TRANSITION

CLIMATE SHIFT 6



CARBON CAPTURE AND NATURE BASED SOLUTIONS

CLIMATE SHIFT 7



ECONOMIC DEVELOPMENT



A Local Carbon Budget

135 MT

Carbon Accounting

Consumption
Based Emissions
Inventory

Community
Engagement &
Education





ACTIVE TRANSPORTATION

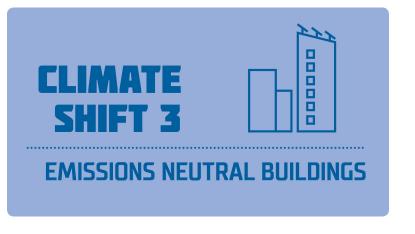
50% under 5 km by 2050

LOW EMISSION VEHICLES

All new personal vehicles by 2030; all vehicles by 2050

LIVE WORK SPACE

Reduce size of homes by 25% and workspace by 40% by 2050



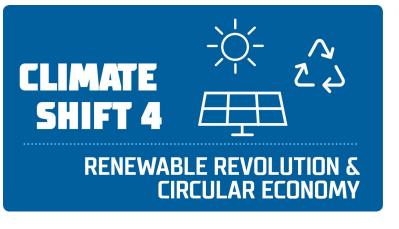


NEW BUILDINGS All new buildings are emissions neutral by 2030

EXISTING BUILDINGS All existing buildings are retrofitted to achieve

heating and electricity reductions of 50% by 2050

INDUSTRY Reduce energy use of industrial operations by 75% by 2050





SOLAR Install solar on 85% of all buildings (supplying 60%

of electricity) by 2040

ENERGY SOURCES Have 100% of Edmonton's energy sources by

emissions neutral by 2050.

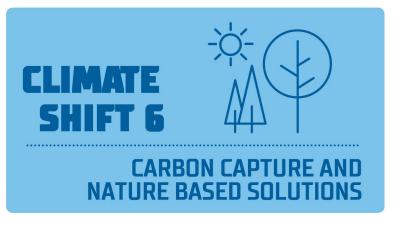
WASTE Divert 90% of waste from landfill (25 Year Waste

Strategy)





- Applying Gender Based Analysis Plus (GBA+) when developing policies and programs.
- Qualifying income programs designed to alleviate energy poverty.
- Green Job Access program to help displaced energy workers and other disadvantaged communities get jobs in the renewable and energy efficiency industry.
- Establish an equity voices climate committee
- Ensuring affordable housing is energy efficient and emissions neutral, reducing energy costs and increasing total affordability.





- Preserving and restoring natural areas (such as wetlands) to act as carbon sinks.
- Expanding Edmonton's tree inventory (planting two million trees by 2050).
- Promoting sustainable urban farming practices
- Partnering with industry to provide opportunities to provide carbon sequestration and utilization.
- Providing incubator services for start-ups focused on innovative technologies.
- Developing a carbon offset purchasing strategy.





JOBS Create 210,000 jobs between now and 2050, an

average of 6,500 per year.

COST AVOIDANCE Reduce Edmonton's energy costs by an average of

\$750 million per year over the life of the strategy.

GOOD INVESTMENTS Ensure societal benefit cost ratios of greater than

one

Thank you!

andrea.soler@edmonton.ca
@YEGclmate
Edmonton.ca/EnergyTransitionUpdate



