

COMMITTEE-OF-THE-WHOLE MEETING NOTES
MONDAY, APRIL 9, 2018
PAGE 29



Present: Mayor B. Young, Councillors B. Beckett, G. Finstad, B. Hamilton, L. Hansen, T. Lazowski and L. Tillack

Also Present: P. Benedetto, City Manager and S. Davis, City Clerk

Mayor B. Young called the meeting to order at 5:02 pm.

I. APPROVAL OF AGENDA

MOVED by Councillor B. Beckett that the Committee approve the agenda as presented.

Motion Carried Unanimously

II. ADOPTION OF PREVIOUS NOTES

a) Approval of Notes of the Committee-of-the-Whole Meeting held Monday, March 26, 2018

MOVED by Councillor B. Beckett that the notes of the Committee-of-the-Whole meeting held Monday, March 26, 2018, be approved as presented.

Motion Carried Unanimously

III. DELEGATIONS & PRESENTATIONS

a) Edmonton International Airport (“EIA”) Briefing

M. Hales, City of Leduc Appointee to the EIA Board, introduced T. Ruth, President and CEO, EIA, and N. Bashir, EIA Board Chair.

N. Bashir and T. Ruth provided updates on EIA, including:

- the EIA’s expanded role as an economic driver in the region
- supports 26,000 full-time jobs through jobs at the airport and spin off jobs in the region
- additions of new flights
- the financial growth of almost 4% in 2017
- additional new buildings, and new businesses, to be located on EIA lands
- Villeneuve Airport
- Air Show, which won an Outstanding Event award
- Edmonton Global and collaboration with the region

T. Ruth advised that the EIA will be hosting the Smart Airports Conference (“Conference”) from July 23 to July 25, 2018. This is only the second time the Conference has been held in North America.

Mayor B. Young expressed his appreciation of the EIA presentation and their support for future development of 65th Avenue.

COMMITTEE-OF-THE-WHOLE MEETING NOTES
MONDAY, APRIL 9, 2018
PAGE 30



Mayor B. Young made a PowerPoint presentation (Attached) outlining how being located so close to the EIA has affected the development, and costs, of the City of Leduc. Mayor B. Young advised that the City of Leduc will be coming forward with a request to the Airport Authority to increase the density in the downtown area.

IV. BUSINESS ARISING FROM PRESENTATIONS

V. IN-CAMERA ITEMS

MOVED by Councillor B. Beckett that Committee-of-the-Whole move In-Camera at 5:43 pm to discuss:

- a) Accord Oversight Committee Meeting Update
FOIP s. 21, 24 & 25

Motion Carried Unanimously

MOVED by Councillor G. Finstad that Council move In-Public at 6:15 pm.

Motion Carried Unanimously

VI. RISE AND REPORT FROM IN-CAMERA ITEMS

- a) Accord Oversight Committee Meeting Update
FOIP s. 21, 24 & 25

G. Thomas, Project Manager, made a PowerPoint presentation (Attached).

G. Thomas and I. Sasyniuk, General Manager, Corporate Services, answered the Committee's questions.

VII. REPORTS FROM COMMITTEE & ADMINISTRATION

- a) City of Leduc Greenhouse Gas ("GHG") Action Plan Consultation

S. Olson, Director, Engineering, introduced Dr. R. Boyd, Senior Fellow, All One Sky Foundation and provided Committee with a handout entitled "Our Climate Solutions (Attached).

K. Chomlak, Environmental Sustainability Coordinator, and Dr. R. Boyd made a PowerPoint presentation (Attached) on the City of Leduc Greenhouse Gas Action Plan and the five Milestones to be met.

K. Chomlak, Dr. R. Boyd and S. Olson answered the Committee's questions.

VIII. INFORMATION ITEMS

There were no information items.

COMMITTEE-OF-THE-WHOLE MEETING NOTES
MONDAY, APRIL 9, 2018
PAGE 31



IX. ADJOURNMENT

The meeting adjourned at 6:57 pm.

"Original Signed"

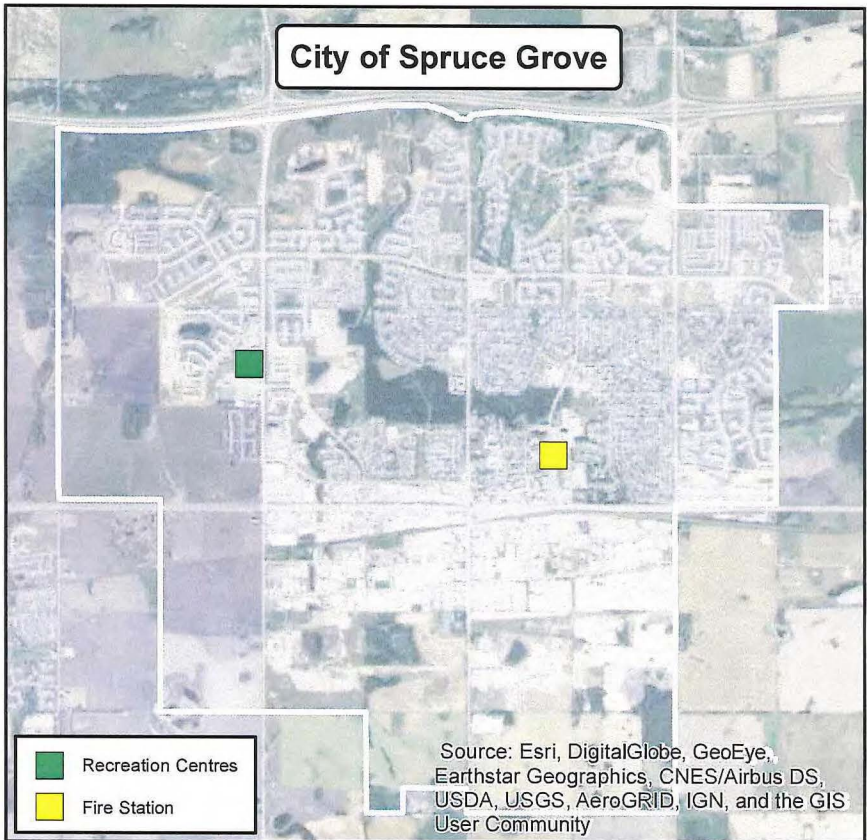
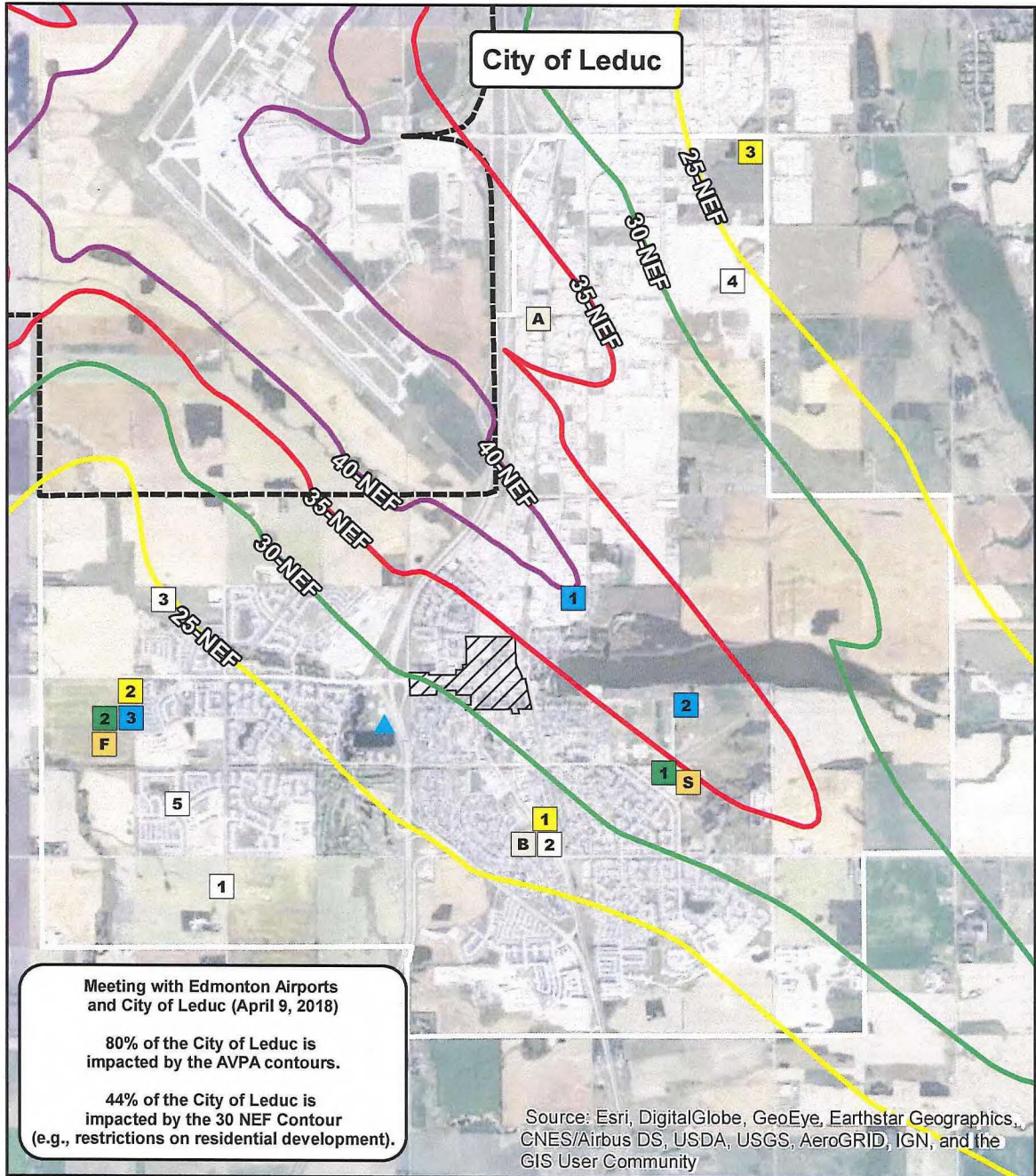
B. Young
MAYOR

"Original Signed"

S. Davis
CITY CLERK

City of Leduc
 Population: 31,130
 Size: 36.97 KM2

City of Spruce Grove
 Population: 34,881
 Size: 26.40 KM2



City of Leduc vs City of Spruce Grove Development

2040 NEF Contours

- NEF - 25
- NEF - 30
- NEF - 35
- NEF - 40

Fire Stations

- 1 Fire House No 1
- 2 Fire House No 2
- 3 Proposed Future Fire Station

Recreation Centres

- 1 Leduc Recreation Centre
- 2 Future West Recreation Centre Area

Downtown Leduc

- Central Business District (Infill Restricted by AVPA in Downtown)

Lift Stations

- 1 Black Stone Lift Station
- 2 Corinthia Park Lift Station
- 3 Deer Valley Lift Station
- 4 Outlook Park Lift Station
- 5 Suntree Lift Station

Public Services/Operations

- 1 Leduc Operations Building
- 2 Old Public Services Building
- 3 Future West Public Services Building
- Radio Tower

Reservoirs

- A Leduc North Reservoir
- B Leduc South Reservoir

Schools

- F Future High School Site
- S Rejected School Site

Map Scale: 1:60,000

GSR4831_AVPAMapV2.mxd
 Created: April 6th, 2018

City of Spruce Grove Development

0 1.25 2.5 5 Kilometers Map Scale: 1:65,000

City of Spruce Grove
Population: 34,881
Size: 26.40 KM2

- City of Spruce Grove
- Developed Lands
- Undeveloped Lands

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

City of Spruce Grove Overlaid onto City of Leduc

0 1.25 2.5 5 Kilometers Map Scale: 1:65,000

City of Leduc
Population: 31,130
Size: 36.97 KM2

Meeting with Edmonton Airports and City of Leduc (April 9, 2018)

80% of the City of Leduc is impacted by the AVPA contours.

44% of the City of Leduc is impacted by the 30 NEF Contour (e.g., restrictions on residential development).

- City of Leduc
- City of Spruce Grove Developed Lands
- City of Spruce Grove Undeveloped Lands

GSR4831_AVPAMapV4.mxd

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

ADOPTION OF PREVIOUS NOTES

Notes of the Committee-of-the-Whole Meeting
– April 9, 2018

* VI.a. Accord Oversight Committee Meeting Update

Attachment Removed Pursuant to Sections 21, 24 & 25 of the FOIP Act.

Let's talk...

OUR CLIMATE SOLUTIONS

Leduc has shown its strong environmental leadership over the past several years through initiatives to keep our environment even cleaner and greener for many years to come.

Our environmental initiatives – from waste diversion to enhancing our natural areas – help Leduc achieve the vision set out in the Leduc Environmental Plan – Phase 1, approved by Leduc City Council in 2012.

That plan identifies another major initiative – to develop a plan to reduce greenhouse gas (GHG) emissions throughout our community. GHG emissions are a leading cause of our changing climate.

The City of Leduc has already implemented initiatives that save money and reduce GHG emissions because they make good business sense. It's time to take the next step and create a GHG reduction plan. Throughout the process, we will gather ideas from the community through surveys, workshops and public information events and materials to give everyone ample opportunity to offer input.

Leduc's Local Action Plan for GHG Emission Reduction will be a made-in-Leduc solution to a global issue. Our plan will respect our unique local priorities, using the lessons we have learned from our established environmental initiatives and others who have tackled similar challenges.



Benefits of reducing GHG emissions

Our local action plan can:

- produce a cleaner, healthier and even safer community,
- save the city, residents and business money,
- increase community resiliency against future regulations and pricing, and
- reduce impacts to our climate.



SHARE YOUR VIEWS

To develop the most effective plan possible, we need to hear from you!



Check out Leduc.ca/ourclimatesolutions for current engagement activities and events.



Setting the stage for plan development

Our climate is changing. Once again, Leduc is showing its environmental stewardship by both preparing for, and reducing, greenhouse gas emissions (GHGs).

We have already set strong foundations for the project, including:

- approving a 10-year Weather and Climate Readiness Plan that highlights adaption measures to prepare for changing local weather impacts,
- starting implementation of the readiness plan,
- completing a baseline assessment of Leduc's current greenhouse gas emissions, and
- securing a \$113,600 grant from the Federation of Canadian Municipalities, with assistance from the Government of Canada, to develop the Local Action Plan for GHG Emission Reduction.

Steps to plan development

Development of Leduc's plan will take into account the views of residents, business and community representatives, stakeholder groups, civic staff and City Council, and the Leduc Environmental Advisory Board (LEAB). LEAB will assist the planning team at key points in the planning process and fulfil the role of community advisor.

The following steps will ensure a transparent process that will capture ideas and test recommendations before City Council approves the plan.

- 1 ENGAGE** the Leduc community for plan ideas.
- 2 COMPILE** preliminary recommendations.
- 3 PRESENT** preliminary recommendations to the Leduc community for further input.
- 4 DEVELOP** final recommendations and present them to City Council for approval.



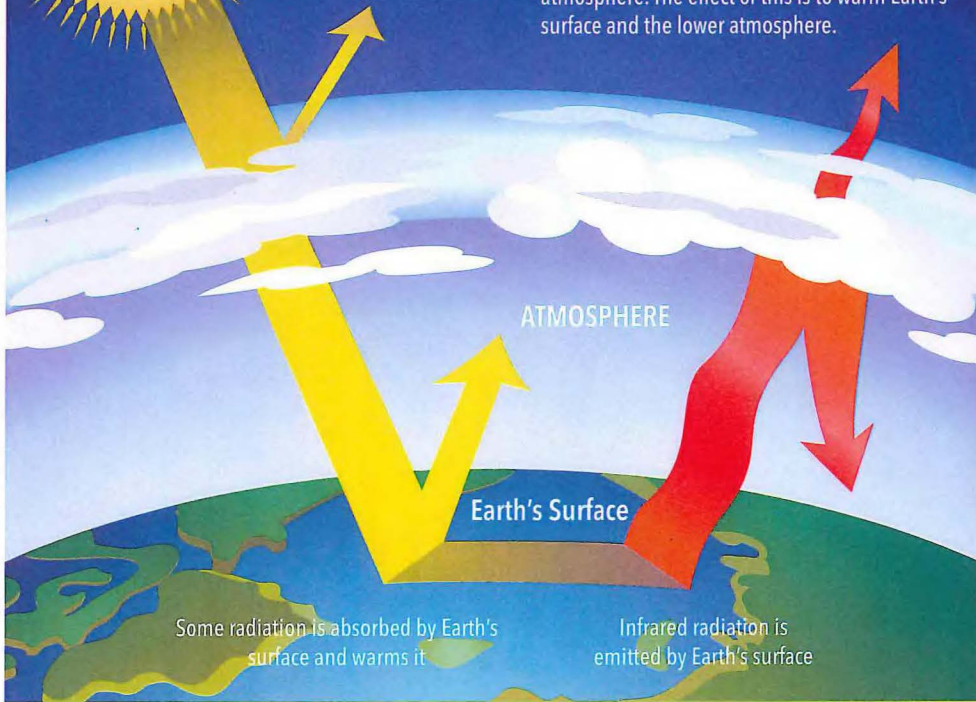
Plan development timeline

Apr - Jun 2018	Conduct public survey and series of civic staff and stakeholders workshops to generate a vision and action options.
Jun - Aug 2018	Screen options and model GHG reduction scenarios from community input.
October 2018	Hold a public open house to present a draft GHG action plan to the community for further discussion.
Nov - Dec 2018	Finalize the plan.
By early 2019	Present final recommendations to City Council.

THE GREENHOUSE EFFECT

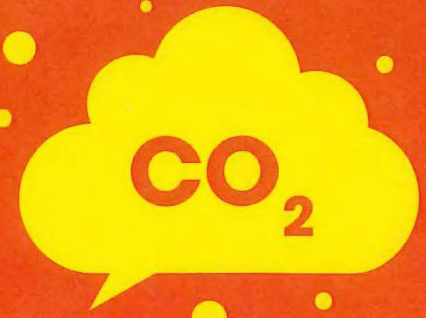
Some solar radiation is reflected by Earth and the atmosphere

Some of the infrared radiation passes through the atmosphere. Some is absorbed by greenhouse gases and re-emitted in all directions by the atmosphere. The effect of this is to warm Earth's surface and the lower atmosphere.



Some radiation is absorbed by Earth's surface and warms it

Infrared radiation is emitted by Earth's surface



Greenhouse gases (GHGs)

The City of Leduc's 2015 Greenhouse Gas Inventory calculates GHG emissions including carbon dioxide (CO_2), methane and nitrous oxide coming from the City of Leduc and the Leduc community. The GHGs are summarized into a standard unit – tonnes of carbon dioxide equivalent (tCO_2e).

Our changing climate



The changing climate is a long-term shift in weather conditions measured by changes in temperature, precipitation, wind, snow cover and other indicators, according to Environment Canada. It can involve changes in average conditions and in extreme conditions.¹

Climate change is a result of the expansion of the natural greenhouse effect. Higher GHG concentrations in the atmosphere are amplifying the greenhouse effect and warming the planet, affecting wind patterns, precipitation and storm events.

Global warming does not mean every day or year will be warmer than the previous one. Changes in weather patterns will continue to produce some unusually cold days and nights, and winters and summers, even as the climate warms. The 15 hottest years on record have occurred between 2001 and 2017.²

There is growing consensus that extreme weather events such as very hot days, very cold days or intense precipitation likely will become more frequent and more intense.

Leduc's climate is changing

Leduc is being impacted by our changing climate. Leduc's mean annual temperature over the past 30 years has increased 2.7°C. Future projections for the Leduc region predict a further increase in mean annual temperature of 2.0°C by the 2050s.³

Stream flows in the North Saskatchewan River are expected to continue to decline as Alberta glaciers are projected to lose 80-90% of their volume by the end of the century.⁴

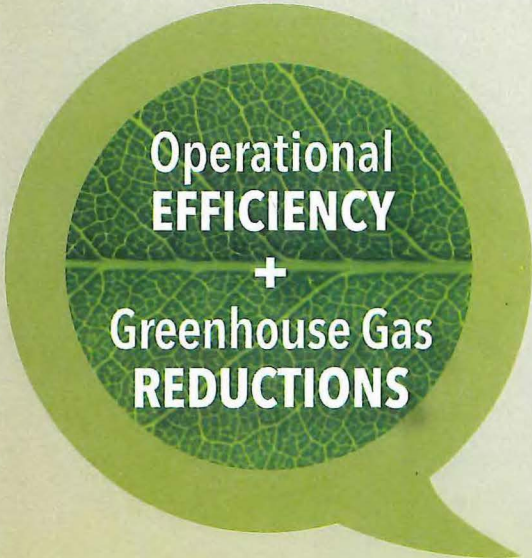
¹ Environment Canada, Frequently Asked Questions About Climate Change

² National Oceanic and Atmospheric Administration

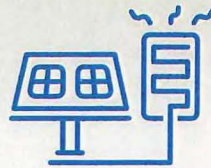
³ City of Leduc Weather and Climate Readiness Plan

⁴ City of Leduc Weather and Climate Readiness Plan

ENVIRONMENTAL *success!*



**Operational
EFFICIENCY**
+
**Greenhouse Gas
REDUCTIONS**



RENEWABLE ENERGY

Rooftop Solar Project

Leduc Recreation Centre (LRC) & City Operations Building

5,622
SOLAR PANELS

ANTICIPATED ANNUAL RESULTS:

OPERATIONAL SAVINGS
\$100,000

MEGAWATT HOURS PRODUCED
1,600

GHG EMISSIONS REDUCED
1,025
tCO₂e

EQUIVALENT TO TAKING
220
CARS OFF THE ROAD



LOW GHG EMITTING TRANSPORTATION

Leduc Transit: Transit use is a major community priority – and more residents are using the convenient service.

ANTICIPATED IMPACTS OF CURRENT RIDERSHIP:

EQUATES TO REDUCING
278
CARS DRIVING
1 YEAR
(2011-2017)

GHG EMISSIONS REDUCED
1,300
tCO₂e

*A passenger is counted each time he or she boards a bus originally or by transfer.

FROM 2011 TO 2017:

INCREASED RIDERSHIP
147%
33,106 - 81,654

INCREASED BOARDINGS*
173%
33,106 - 90,504



LOW GHG WASTE

Organics diversion:

Since 2013 Leduc's curbside organics collection has diverted over 12,000 tonnes of material from landfill.

ANTICIPATED RESULTS:

ORGANICS/HOUSEHOLD
300 KG
COMPOSTED
/YEAR

GHG EMISSIONS REDUCED OVER 40 YEARS FROM LANDFILL
10,450
tCO₂e

SMART URBAN PLANNING

Crystal Creek Outline Plan:

Key GHG reduction elements include:

- proximity to neighbourhood services and amenities,
- pedestrian-oriented design,
- transportation options, and
- higher density.



ENERGY-EFFICIENT BUILDINGS

LRC: Designed with technologies that reduce GHG emissions including:

- a heat recovery system to meet the arena's hot water requirements,
- low flow bathroom fixtures and energy efficient lighting reducing energy consumption,
- an efficient building envelope and reflective roofing system that insulates well and minimizes heat and energy loss, and
- bike storage to help reduce car-based trips.

EFFICIENT INFRASTRUCTURE

LED streetlights: Fortis Alberta, in partnership with the city, has converted 2,500 streetlights. The improved lighting increases safety. As well, the new lights direct their light downward, reducing light pollution.

ANTICIPATED ANNUAL RESULTS:

ELECTRICITY SAVED
1,100,000
KWH

ENOUGH TO POWER
150
HOMES

GHG EMISSIONS REDUCED
710
tCO₂e

EQUIVALENT TO TAKING
150
CARS OFF THE ROAD

tCO₂e = TONNES OF CARBON DIOXIDE EQUIVALENT



PARTNERING with *nature*

Eco-smart Hotline: 780-980-7107

ecosmart@Leduc.ca

Sign up through Leduc.ca/ourclimatesolutions for project updates or to share your views directly.



Greenhouse Gas (GHG) Action Plan Consultation

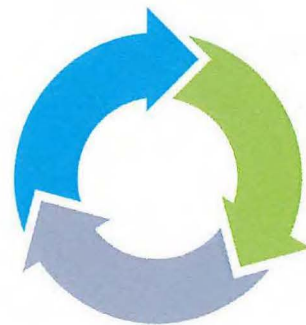
Kerra Chomlak, Environmental Sustainability Coordinator,
Dr. Richard Boyd, Senior Fellow, All One Sky Foundation
Committee of the Whole April 9, 2018

www.leduc.ca

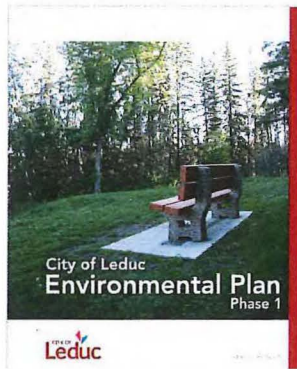


Outline

- Background
- Inventory, GHG actions
- Input:
 1. engagement process:
 - survey, stakeholders
 2. principles
 3. actions



Background



October 2016

GHG Planning

FCM
FEDERAL CLIMATE
LEADERSHIP PROGRAM

ICLEI
LOCAL GOVERNMENTS
FOR SUSTAINABLE DEVELOPMENT



Milestone 1

Create a Baseline Emissions Inventory and Forecast

Milestone 2

Set Emissions Reduction Targets

Milestone 3

Develop a Local Action Plan

Milestone 4

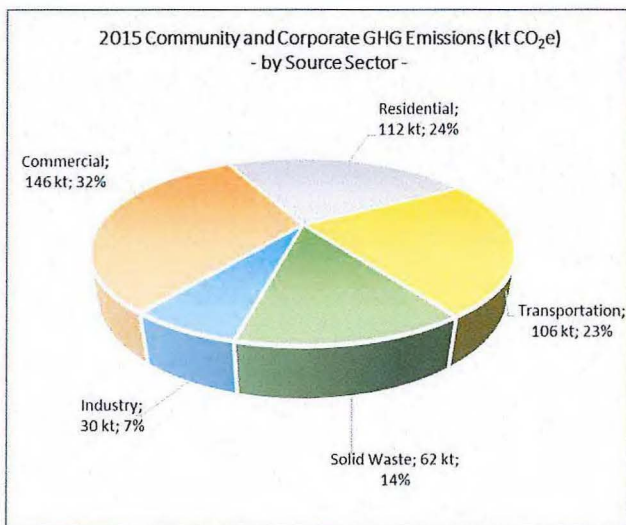
Implement the Local Action Plan

Milestone 5

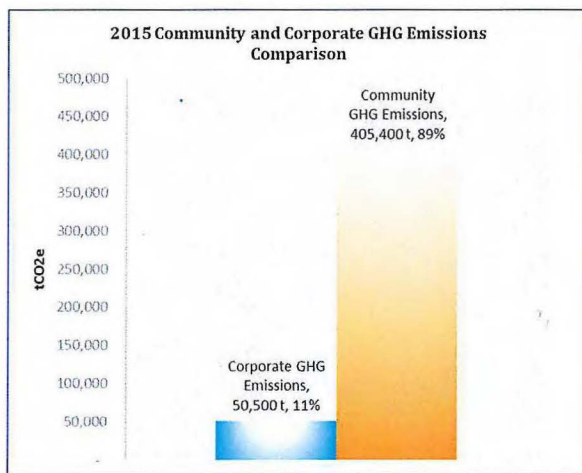
Monitor Progress and Report Results



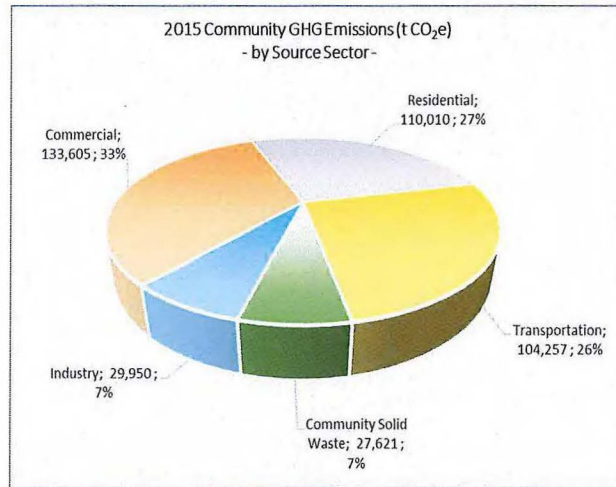
Inventory – all sources



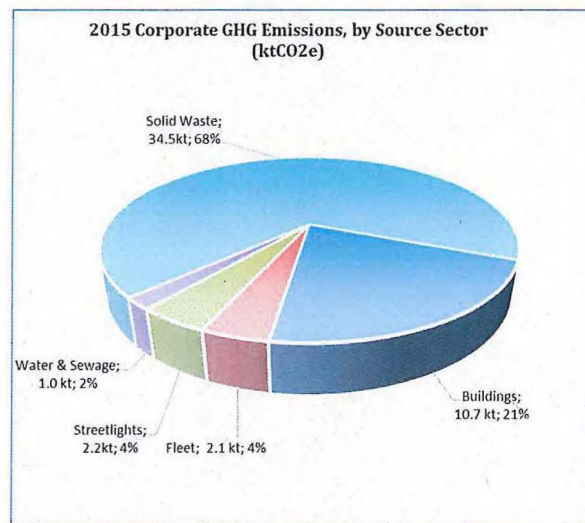
Inventory – corporate



Inventory – community



Inventory – corporate



Modelling & Analysis

- Buildings, new & existing
 - Energy efficiency
 - Behaviour change
 - District energy
- Transportation
 - Alternative fuels, private & public
 - Fuel economy
 - Modal shift - behaviour & infrastructure
- Land-use
 - Urban infill vs greenfield, densification
- Waste
 - Generation & diversion
 - Collection & disposal methods



Existing GHG Actions



- Renewable energy
- Efficient buildings



Existing GHG Actions



- Efficient Infrastructure
- Transit



Existing GHG Actions

Curbside ORGANICS*

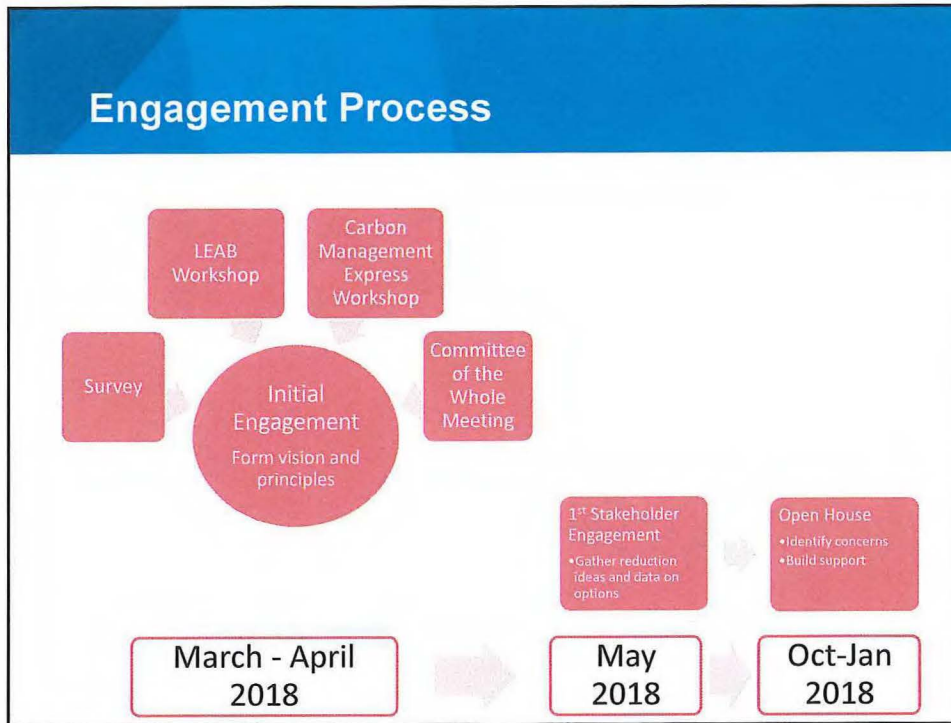
* INCLUDES CHRISTMAS TREES PICKED UP BY SPECIAL COLLECTION
 * CURBSIDE SERVICE STARTED IN SEPTEMBER 2012



	2013	2014	2015	2016	2017
MATERIAL COLLECTED (TONNES)	2,138	2,415	2,375	2,675	2,802
PER HOUSEHOLD (KGS)	294	318	294	319	323
% DIFFERENCE / HOUSEHOLD (KGS) FROM 2012 START OF SERVICE					+708%

- Low GHG waste
- Smart urban planning





Engagement Process

Let's talk...

Leduc's climate is CHANGING.
We are developing a made-in-Leduc plan to reduce city and community greenhouse gas (GHG) emissions.

OUR CLIMATE SOLUTIONS

Let's talk...

OUR CLIMATE SOLUTIONS

How should the City REDUCE GHGs?

- Renewable energy installations
- Natural gas / electric city vehicles
- Energy efficiency standards for new civic buildings

OTHER IDEAS?

How should RESIDENTS & BUSINESS reduce GHGs?

- Use transit
- Recycle and compost more
- Build higher density housing
- Learn how to reduce GHGs
- Drive cleaner vehicles
- Make home buildings more energy-efficient
- Walk or bike more

OTHER IDEAS?

PARTNERING with **instructure**

Engage with **Leduc**

Leduc.ca/ourclimatesolutions

Key messages

- City of Leduc embraces its leadership role in reducing GHGs
- Our climate is changing and Leduc is committed to both prepare for, and contribute to, mitigating climate change
- City of Leduc has delivered environmental initiatives that make sense economically and environmentally e.g. solar power, LED lights, efficient buildings
- The Local Action Plan for GHG Emission Reduction will provide a prioritized road map for municipal, community and local residents' GHG reduction actions over the next decade
- Reducing GHG emissions through a local municipal action plan contributes towards:
 - mitigating climate change
 - more efficient and effective public and private infrastructure
 - long term energy and transportation cost savings both for the City and individual residents
 - increasing community resiliency to future regulatory changes, and
 - a cleaner, healthier community

Vision



- Transit is a top priority
 - Improve quality of life
 - Grow and expand
- GHG Emission Reductions
 - In top 5 environmental priorities

Vision

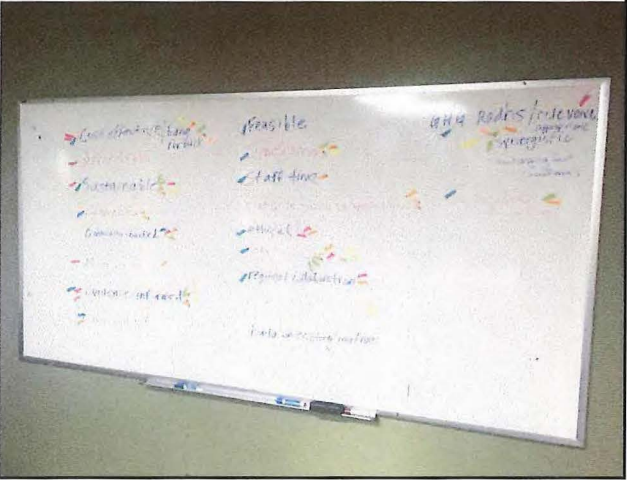

Vision: people are choosing to live in Leduc because of its commitment to a healthy and clean environment

- In 2021, the City of Leduc has become an energy wise community
- People are walking, biking, and taking transit more than ever before.

Vision: by reducing our energy use, the City's operating and servicing costs have declined

8. ENERGY AND CLIMATE CHANGE

Principles





LEAB
Leduc Environmental Advisory Board

Principles


- Cost effective
- Lead by example
- Cross community effort
- Maximize other benefits
- Equitable
- Innovative
- Made in Leduc
- Maximum influence









- Step wise approach
- Collaboration with community
- Balanced





Let's Talk...Our Climate Solutions

Outcomes

What are the most important results of a Greenhouse Gas action plan? Please rank in order of importance. 

- 1  Lower GHG emissions
- 2  Improved health and wellbeing (ex. more biking)
- 3  Lower energy bills
- 4  Lower transportation costs
- 5  More products that are more walkable and bicycle friendly
- 6  Better air quality (ex. less car exhaust)
- 7  More community pride from taking climate leadership
- 8  More partnerships between the City and other local businesses, organizations and municipalities through shared GHG reduction actions

Are there any other results not included above that you believe are important to the development of the GHG plan? 

Leduc's Plan to reduce GHGs will guide the City for next ten years. Should the Plan include the following actions? Select your level of agreement with the following statements as it applies to the City of Leduc and residents and businesses.

The City of Leduc should:

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	N/A
Use more renewable energy (e.g. solar, wind or geothermal energy) in place of traditional energy sources (coal, natural gas)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Drive cleaner vehicles (e.g. smaller or electric vehicles)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provide or encourage electric vehicle charging stations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Improve public transit	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Coordinate carpooling services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Make their buildings more energy efficient (e.g. with insulation, lighting upgrades, high quality windows, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Plan for more walking paths and bike lanes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Plan neighborhoods so people can walk to stores instead of drive	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Plant more trees and preserve natural areas	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Require residents to recycle and compost more so less emissions come from landfill	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Require businesses to recycle and compost more	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Residents and businesses should:

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	N/A
Use renewable energy in their homes (e.g. solar panels)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Drive cleaner vehicles (e.g. smaller or electric vehicles)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Take public transit more often	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use carpooling services more often	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Walk or bike more	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Make their homes and businesses more energy efficient (e.g. newer furnaces, weather stripping, efficient lighting, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Plant more trees and gardens	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recycle and compost more to cut less in landfill which emits GHGs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Prev

Next

Potential Actions

<i>Efficient Infrastructure</i>	<i>Smart Urban Planning</i>	<i>Renewable Energy</i>
		
<i>Transportation</i>		<i>GHG Reduction Target</i>
	<i>Low GHG Solid Waste</i>	
<i>Efficient Buildings</i>		<i>Education & Awareness</i>
		

Stakeholders

Options for involvement

- April 25 evening Climate Express Workshop
- May 15 afternoon stakeholder workshop
- Survey
- Open house in fall
- Contact Kerra

Draft Stakeholder List

- UDI
- CHBA
- School Boards
- Leduc County
- EIA
- Chamber of Commerce
- LNEDA
- DBA
- Other?

Next steps

- Apr. 25 - Climate Express Workshop
- May - stakeholder and staff workshops
- June - Survey closes
- Early fall to Council:
 - what we heard report
 - draft actions
 - target setting
- October – open house and draft report
- 2019 – final approval

Questions?

