





# Timeline

1927



2008



2013



2014



2018



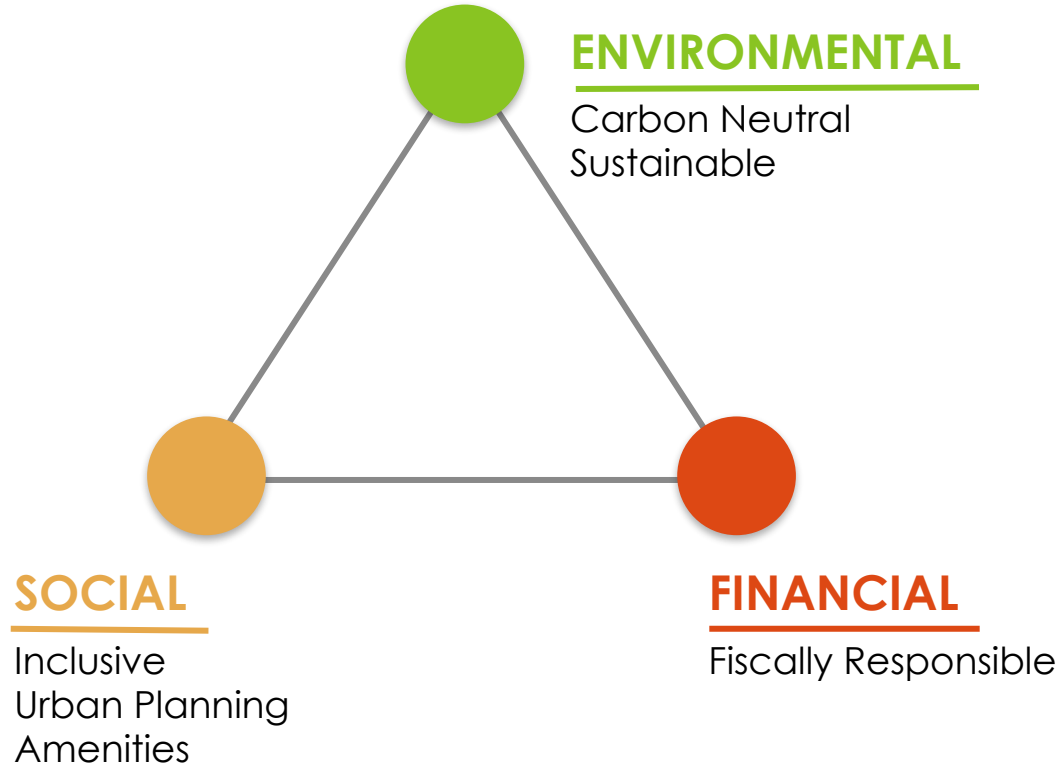
# The Vision

Blatchford will be home to up to 30,000 Edmontonians living, working and learning in a sustainable community that uses 100 percent renewable energy, is carbon neutral, significantly reduces its ecological footprint, and empowers residents to pursue a range of sustainable lifestyle choices.





# Blatchford's 3 Key Pillars of Sustainability





# Social Sustainability



# People-First Design

- Plazas, homes and buildings will all be connected through a series of parks & walking paths
- Separated bike lanes & pedestrian-only streets
- Pedestrian-scale experience
- Two future LRT stops
- Public spaces promote greater social connections





# Environmental Sustainability





# Managing Water

## Low Impact Development

Rain Gardens

Bioswales

Naturalized Wetlands

Green Roofs

Bioretention Areas

Silva Cells



# Conservation

## High Performance Buildings

Building Envelope

Energy Systems

Sustainable Building Features





# Efficiency

## District Energy Sharing System

High efficiency heat pumps

Sharing energy between buildings & seasons



# Renewables

## Other Sources

Geoexchange

Sewer Heat Exchange

Solar Photovoltaic





## Innovative technologies



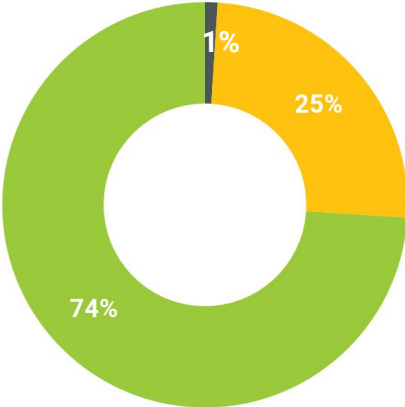


Blatchford  
Renewable  
Energy



# Comparing Outcomes

Typical Townhouse  
Energy Use: **37,271** kWh

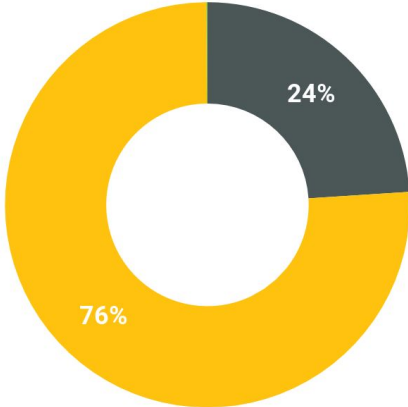


● ELECTRICITY FOR COOLING ● ELECTRICITY FOR PLUG LOADS  
● NATURAL GAS FOR HEATING & HOT WATER

Reduction of **25,272**  
kilowatt hour annually



Blatchford Townhouse  
Energy Use: **11,999** kWh

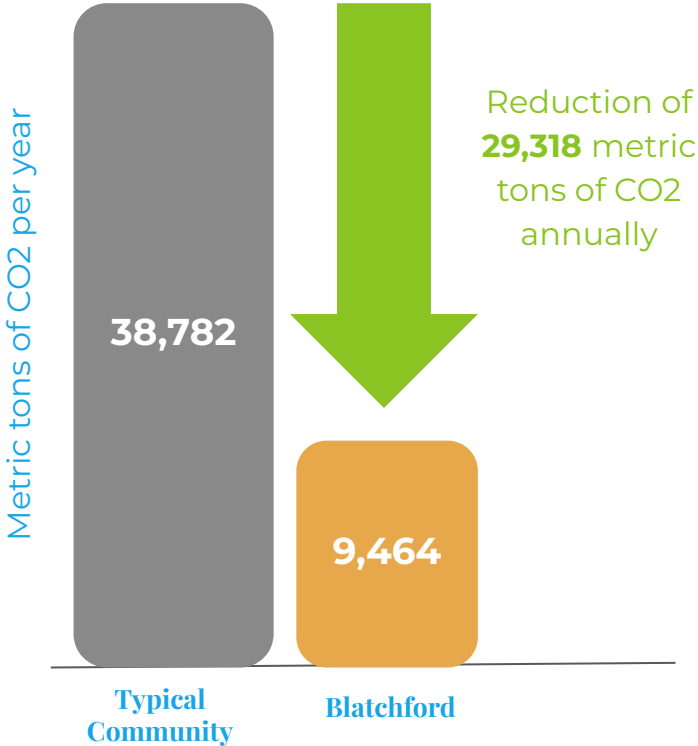


● ELECTRICITY FOR HEATING & COOLING ● ELECTRICITY FOR PLUG LOADS  
● NATURAL GAS FOR HEATING & HOT WATER

*Estimated annual consumption in a 1,600 sq. ft. townhouse unit.*



# Greenhouse Gas Emissions Reduction



Estimated reduction over the next 50 years of Blatchford.

## This reduction is equivalent to



**6,225** Passenger vehicles driven for one year



**5,113** Homes' electricity use for one year



**1,179,201** Trash bags of waste recycled



**3,298,976** Gallons of gasoline consumed

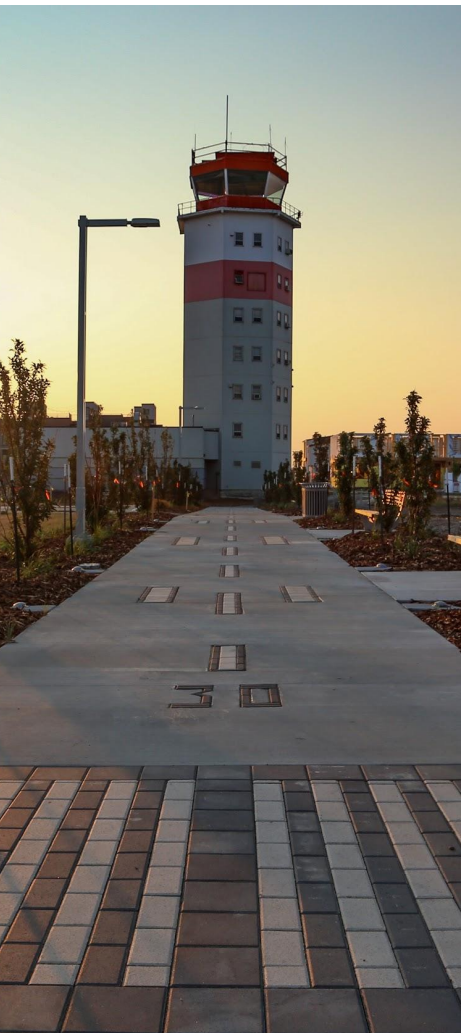
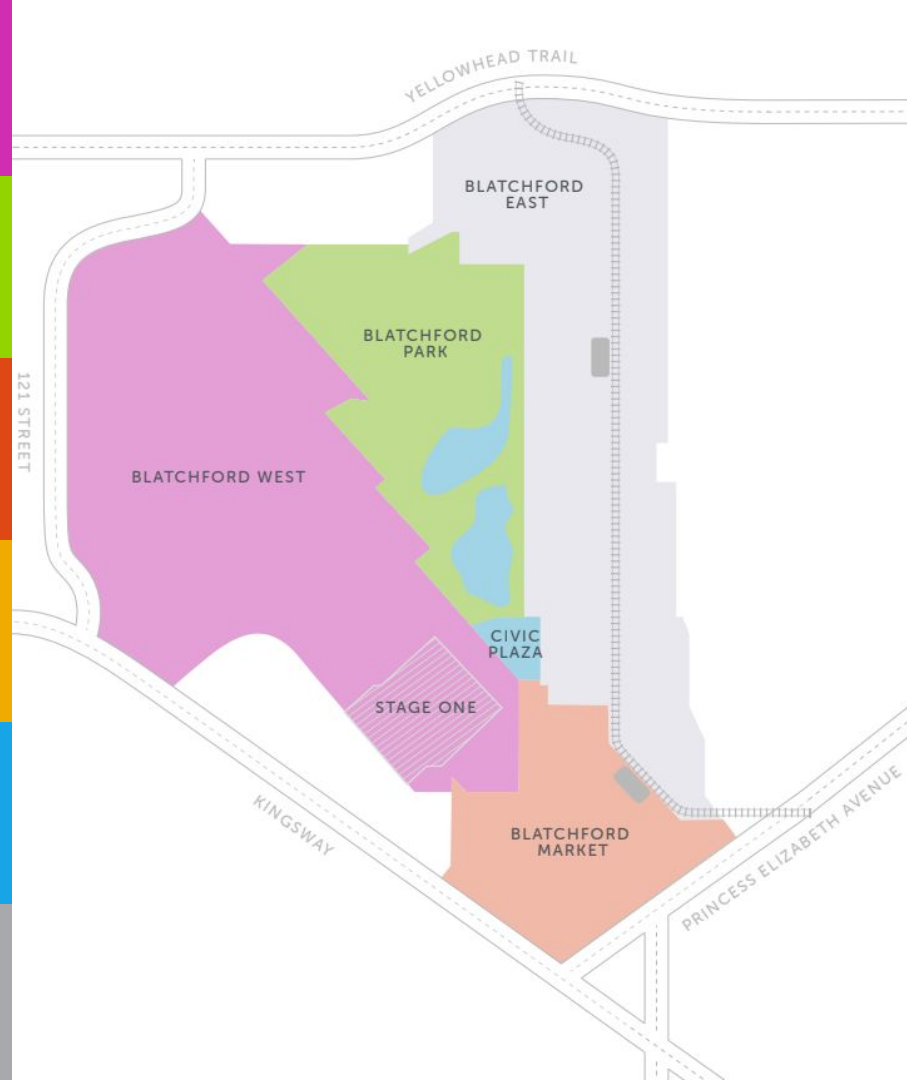


**3,738,406,148** Number of smartphones charged





# Community Development



# Stage One Amenities





# Challenges

- New processes (internal & external)
- Public perception
- District Energy Sharing System (DESS) initial infrastructure costs
- DESS market acceptance





# Questions?



tom.lumsden@edmonton.ca  
lauren.bridges@edmonton.ca

blatchford.ca