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*Making the Paris Climate Agreement a
Reality at the University of Saskatchewan*

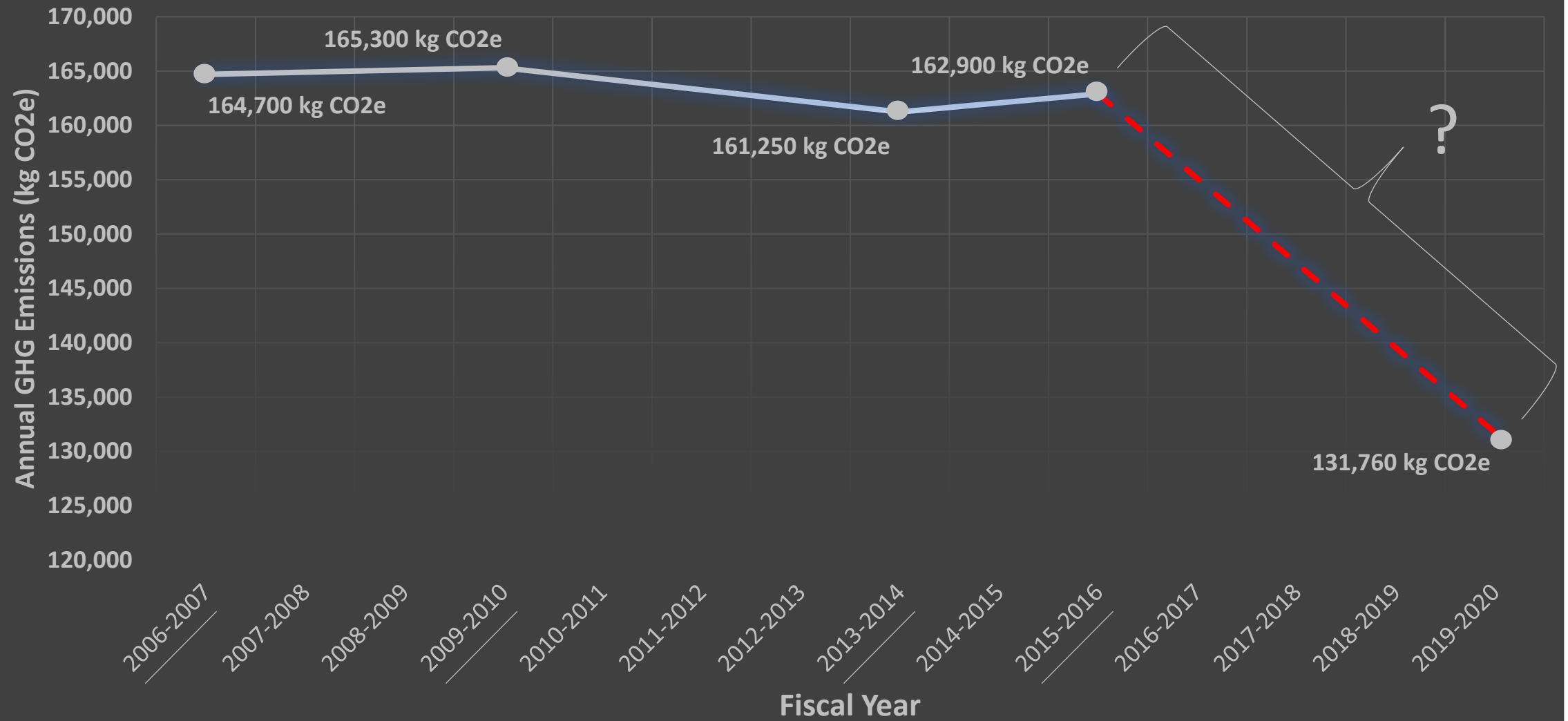


DEFENDERS

BE WHAT THE WORLD NEEDS



U OF S EMISSIONS INVENTORY



Expected temperature
change above pre-industrial
norms by 2050 (°C).

3.6 - 4.8

3.2 - 3.5

2.7 - 3.1

2.3 - 2.6

2.0 - 2.2

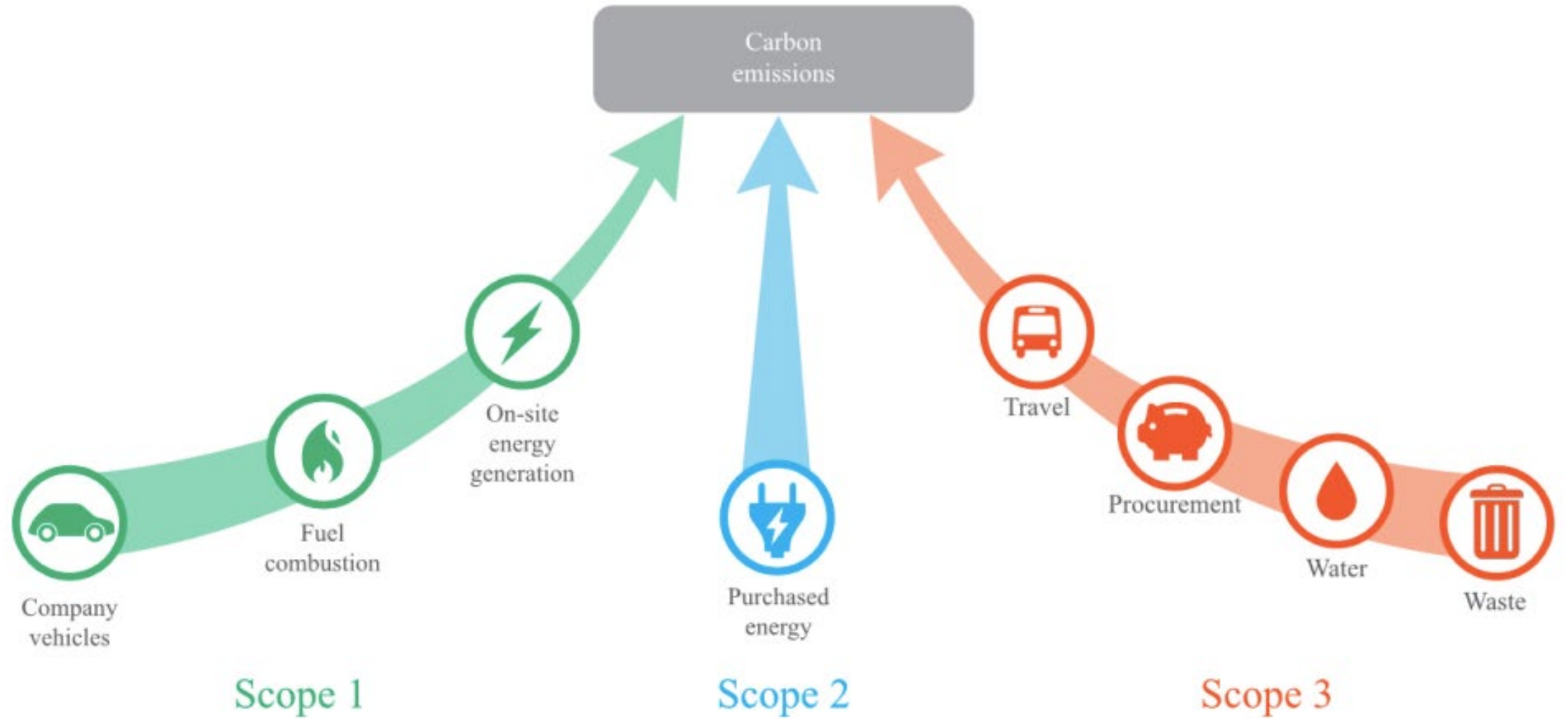
1.6 - 1.9

*H u d s o
B a y*

Saskatoon •





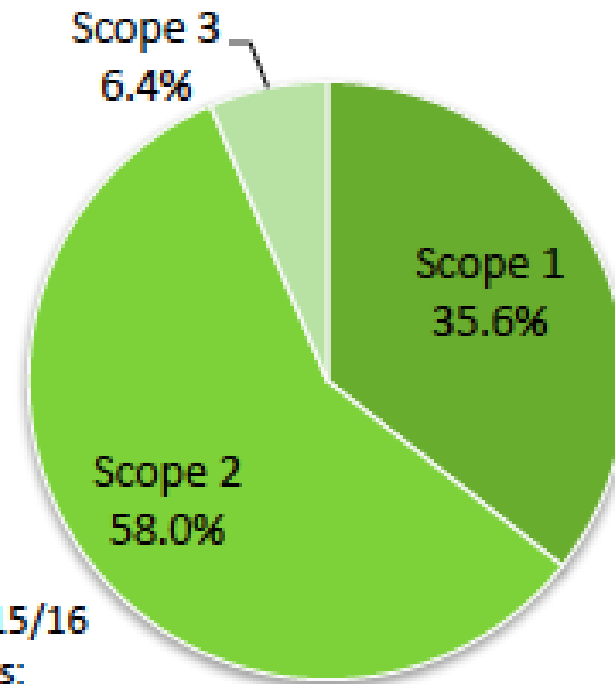


U of S 2015/2016 Emissions Breakdown

Scope 1: 58,644 metric tonnes CO₂e

Scope 2: 94,482 metric tonnes CO₂e

Scope 3: 9,774 metric tonnes CO₂e



Total 2015/16
Emissions:
162,900 MT eCO₂

Scope 1 & 2 Emissions

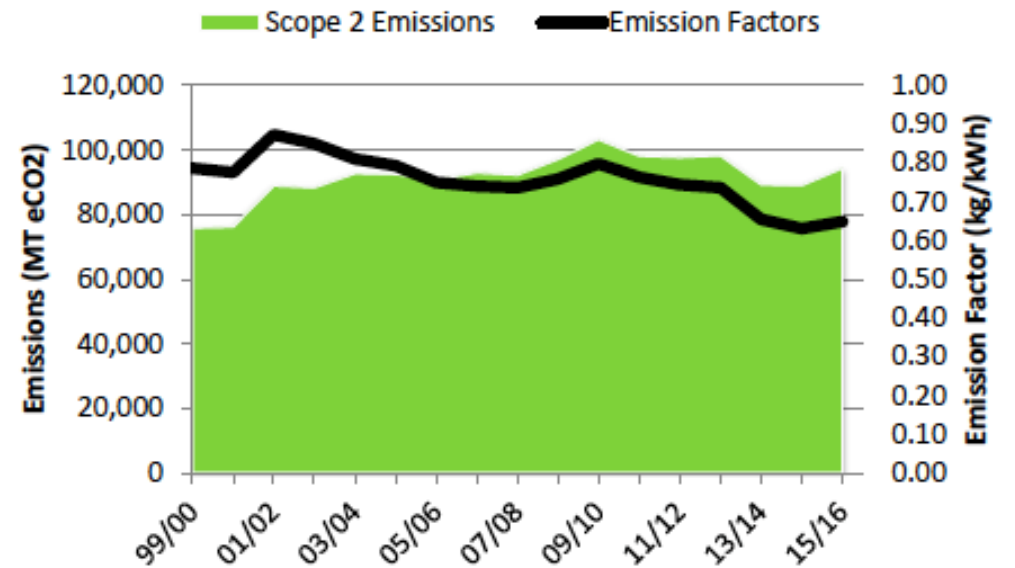
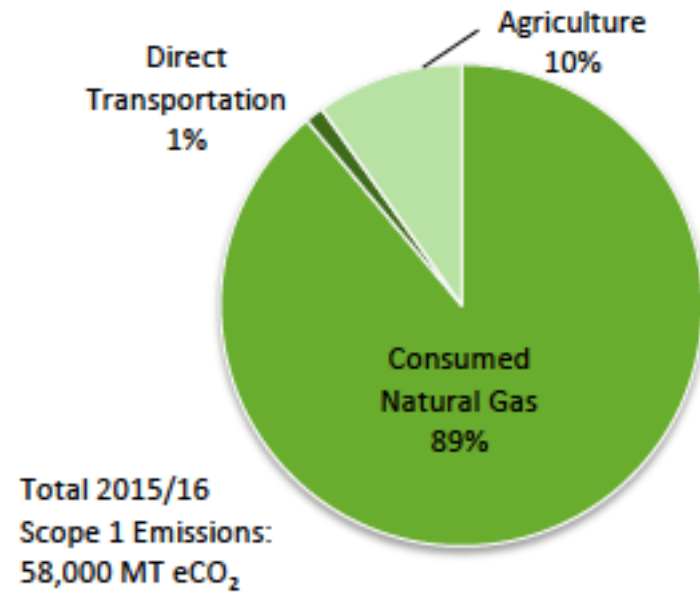


Figure 10 – Scope 2 Emissions compared to Emission Factor (2000-2016)

(Canada Energy Regulator)

Saskatchewan has the highest per capita CO₂e emissions in Canada—*and perhaps the world*—at **244% the national average**.

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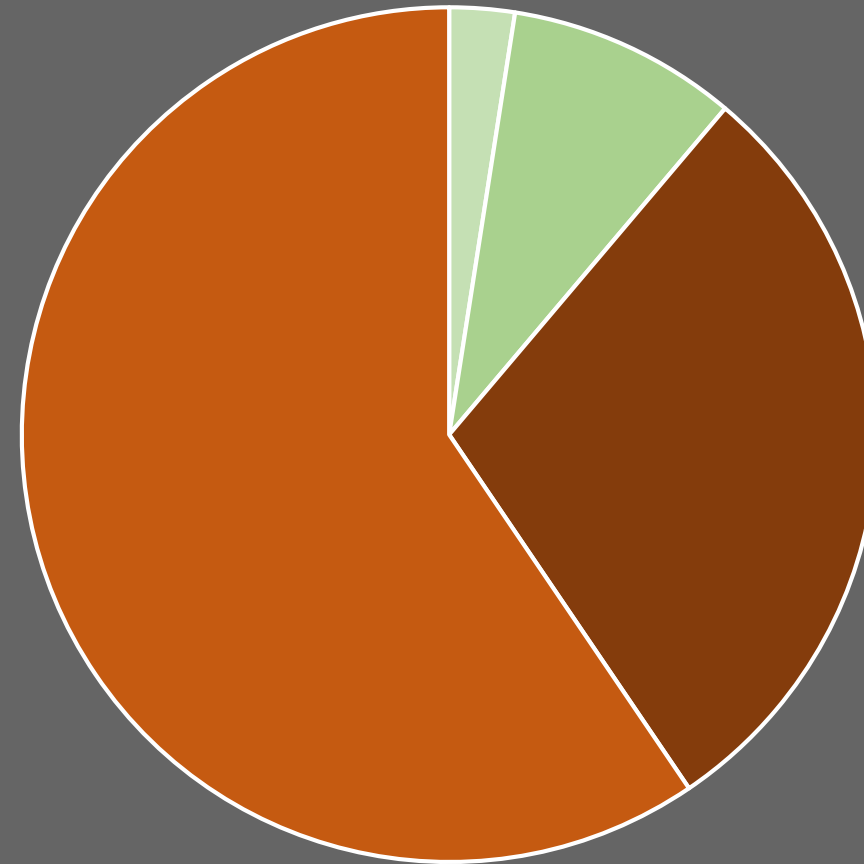
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University of Saskatchewan *Total* Energy Use

Fossil fuel sources = 89.4%
Renewable Sources = 10.6%

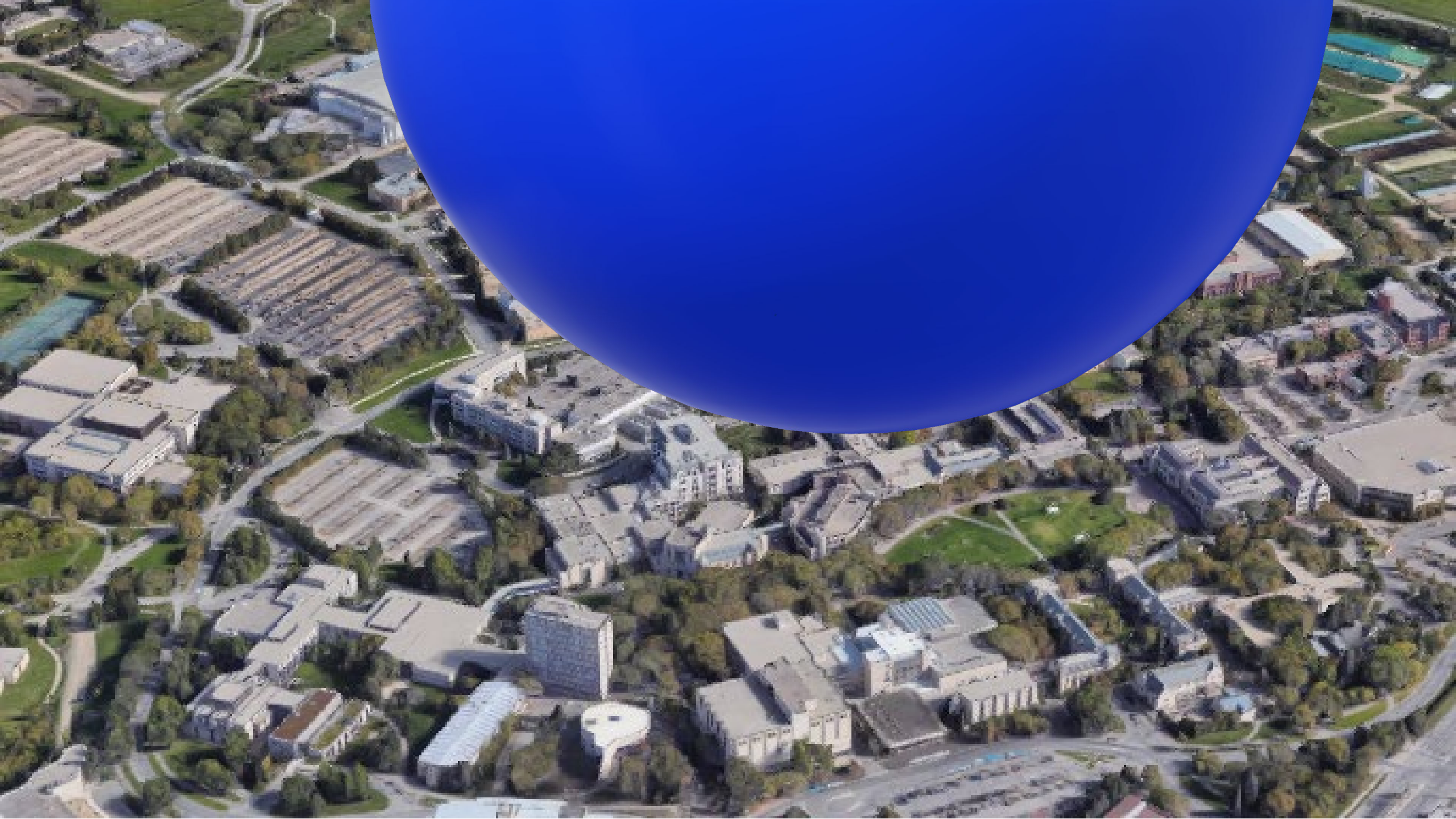


■ Biomass/Geothermal ■ Wind/Hydro
■ Coal/Coke ■ Natural Gas

U of S' 162,900 metric tonne CO₂e contribution

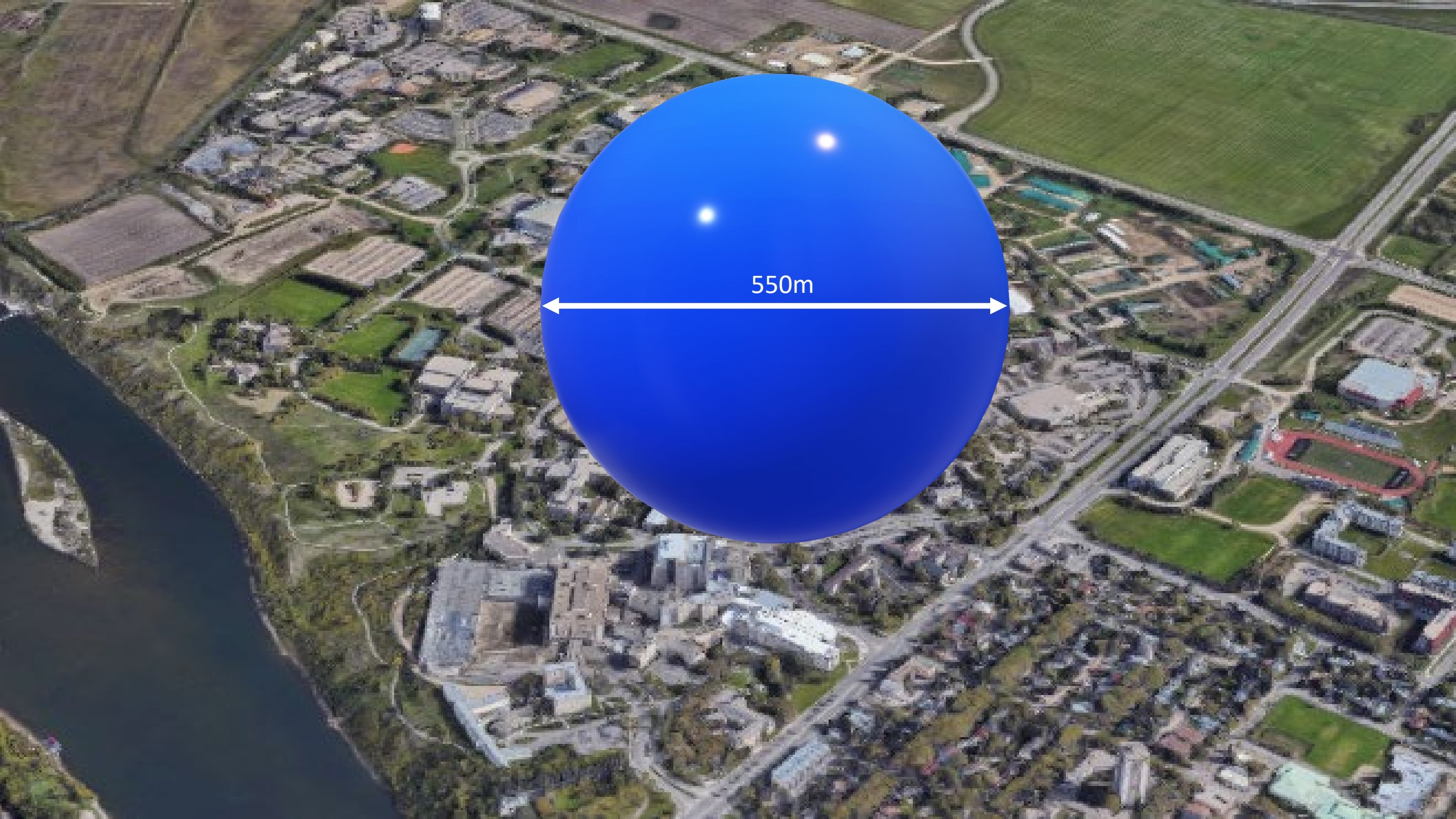
Fills 34,847.6 Olympic swimming pools

...

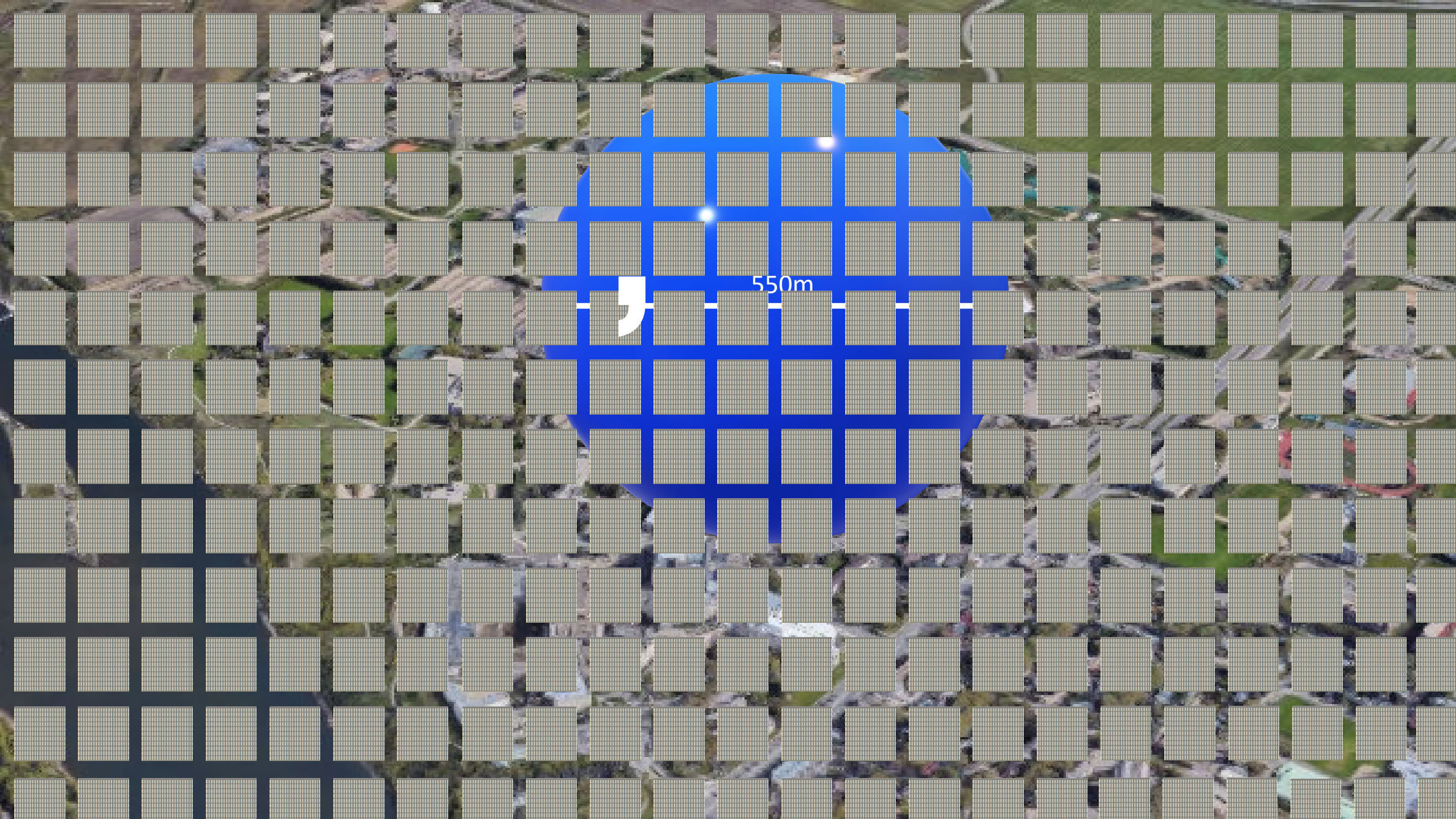








550m





1. Energy Independence:
Developing our own sources
of renewable energy
2. Collaborate with the province
to decarbonize electricity

How to become the University
the World Needs

Solar energy, because *Saskatoon Shines*

- Horticulture Field Research Facility – supplies 70% of yearly power for building
- John Mitchell Building – used as study aids for students

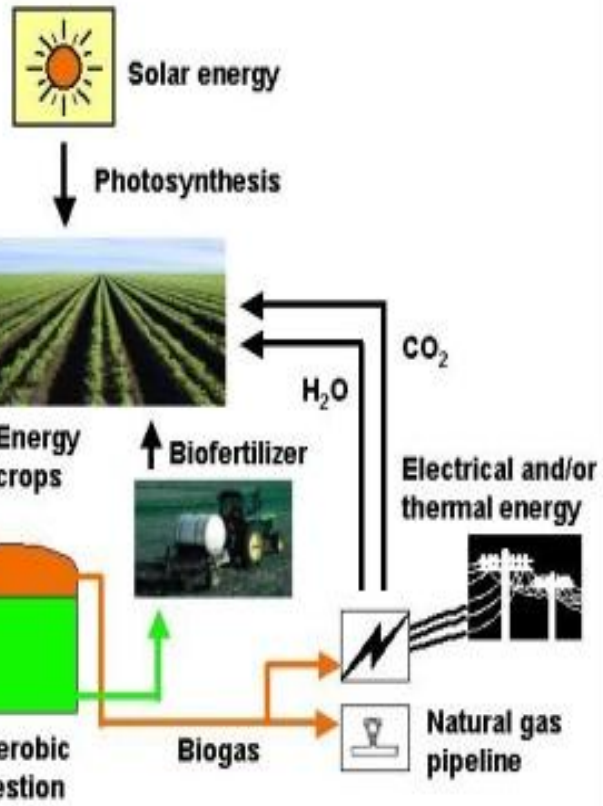


Agrivoltaics

- More intensive use of space and land
- Benefits to crop productivity
- University can champion, real opportunity to revolutionize



Biogas Cycle



Biogas

- Reduction in landfill emissions
- Uses existing infrastructure
- Produces fertilizer (business opportunity)

Microgrids

- Energy independence
- Test site for Northern communities

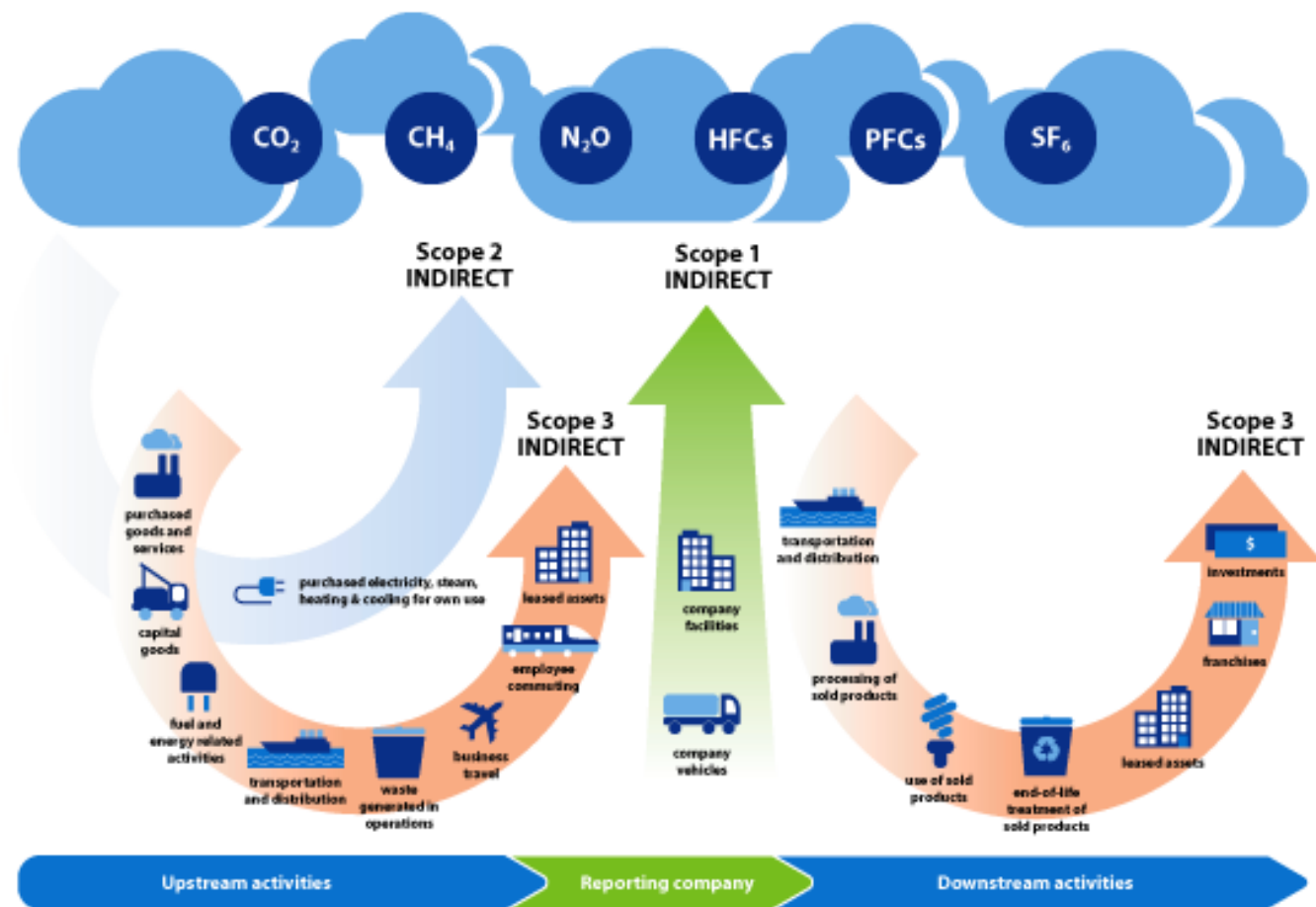


Reducing Energy Demand

- Continued retrofits
- Electrifying/reducing fleet vehicles
- Night classes held in one building
- Better cycling infrastructure



Scope 3





The Low Hanging Fruit

- Campus-wide composting program
- Ban single-use plastics
- Raise the price of parking passes
- Bike share programs
- Bus passes for faculty and staff
- Reduce air travel

We want to
hear from
you!

