



Ministry of
Citizens' Services



Energy SMART Buildings

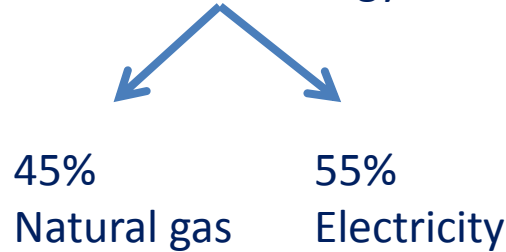
Ministry of Citizens' Services

December 2017

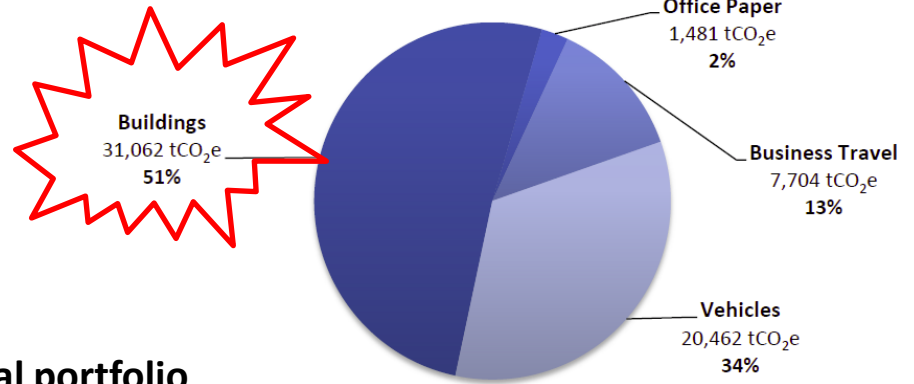
Bernie Gaudet
Director, Corporate Sustainability

Building Portfolio & Energy/GHG

~800,000 GJ total energy demand



GHG Emissions by Source
Total Emissions: 60,708 tCO₂e



Owned: 55% of total portfolio
Leased : 75% office space



Office
68%



Warehouses.
Trailers
12%



Courthouses
6%



Health
5%



Correction
Centres
5%



Other
5%

Sustainability Mandate



Environmental Management

- ISO 14001 registered Environmental Management System informed by *The Natural Step*
- Four significant aspects, including *Energy and GHG emissions*



HAZARDOUS
SUBSTANCES¹



SOLID WASTE²



ENERGY + GHGS³

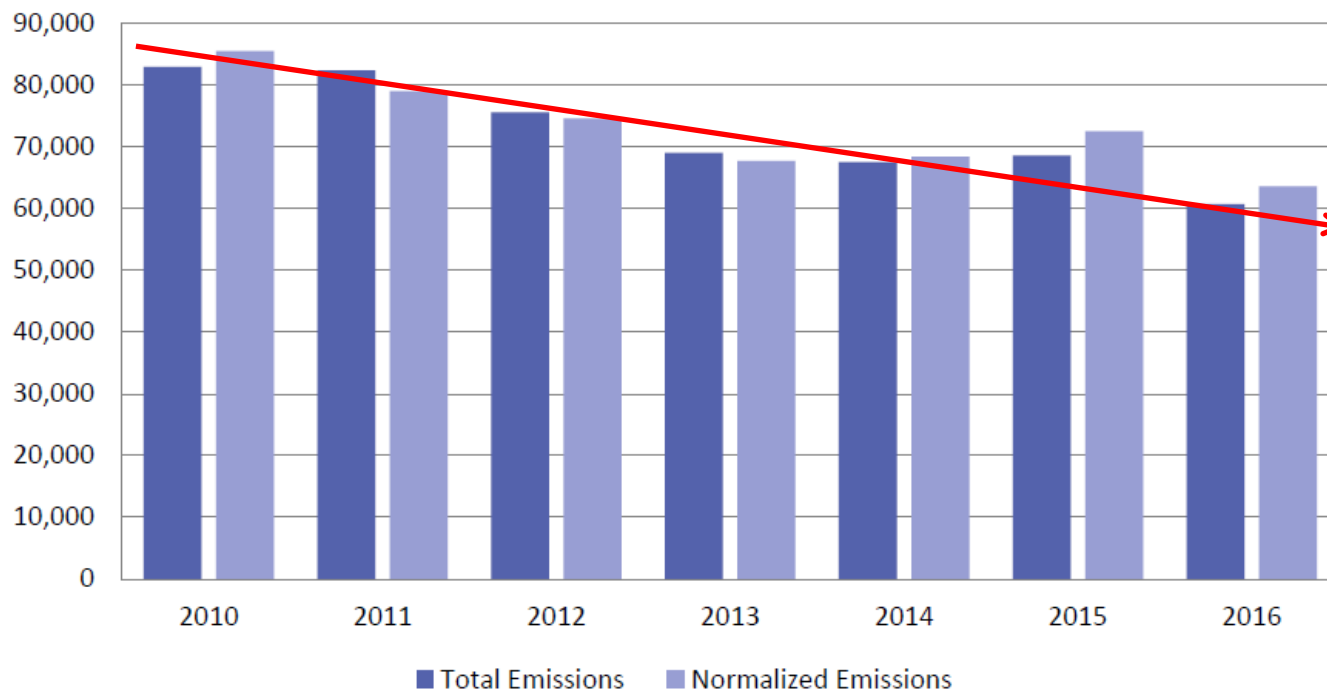


WATER +



GHG Emission Reduction Trend*

Total and Weather Normalized GHG Emissions (tCO₂e)
2010 - 2016

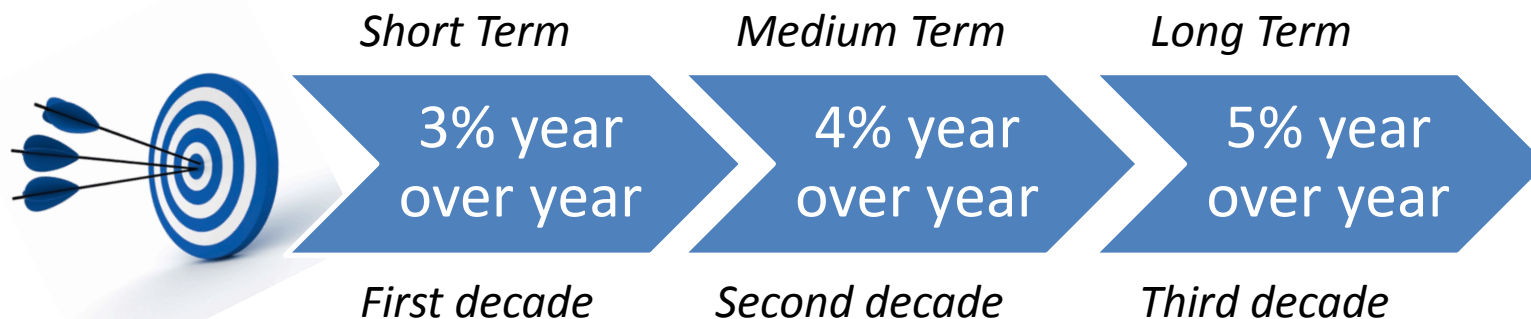


Reduction of more than 20,000 tonnes of GHG emissions since 2010

*Core government owned and leased

Energy Management & Targets

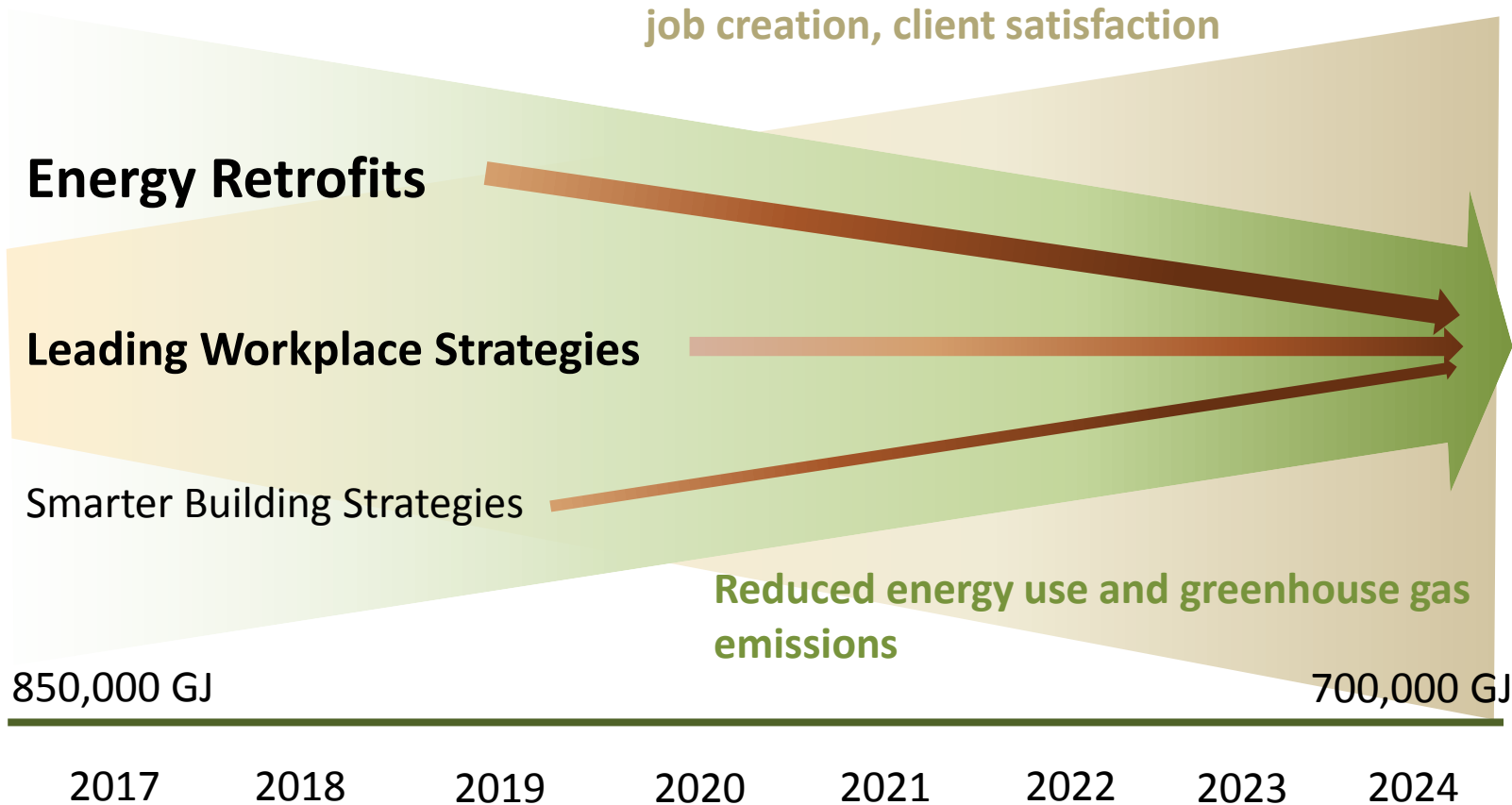
- Provincial reduction target is 80% by 2050
- CITZ' short, medium and long term targets developed to align with Provincial target





Current to Future State

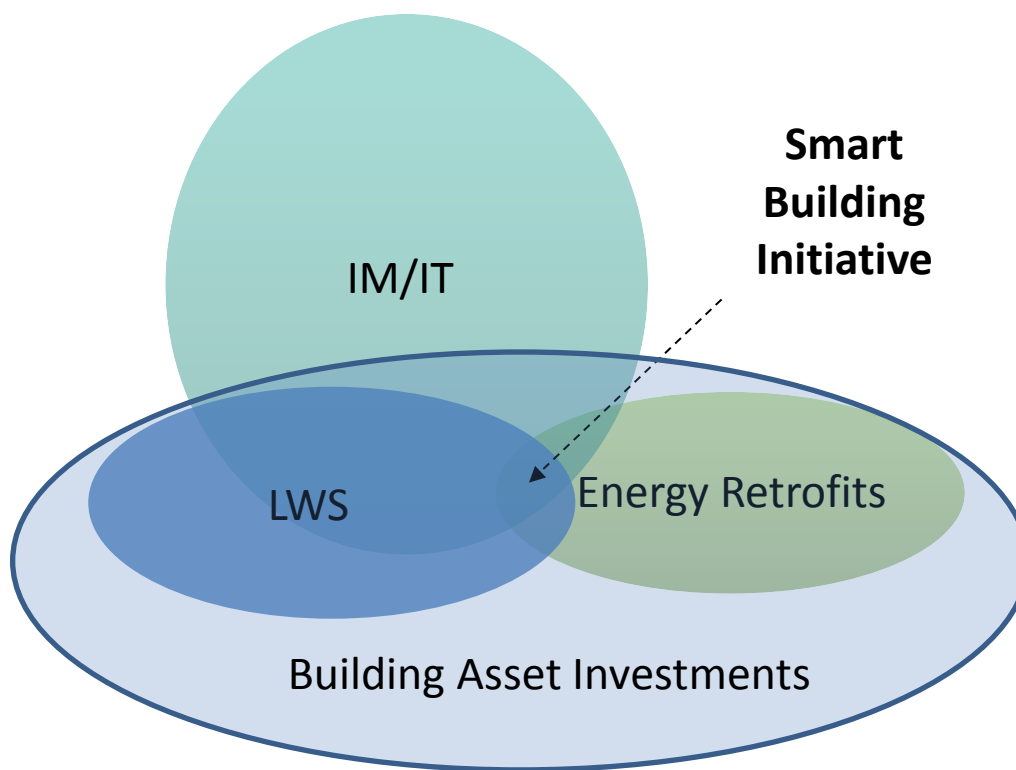
Accumulated operational cost reduction,
job creation, client satisfaction





Where – Energy Smart Buildings & CITZ

Where LWS, Energy Retrofits and IM/IT intersect...



Why –Energy Smart Buildings & CITZ



Improve Services

- Places where government does business that are productive and secure



Affordability

- Government that requires less money to operate and access

Employment

- Invest in local jobs

Environmental Stewardship

- Preservation and restoration of BC's natural heritage





SMARTer Buildings

Energy
Efficiency

Pro-
active

SMARTer
Buildings

Adapt
-able

Savings

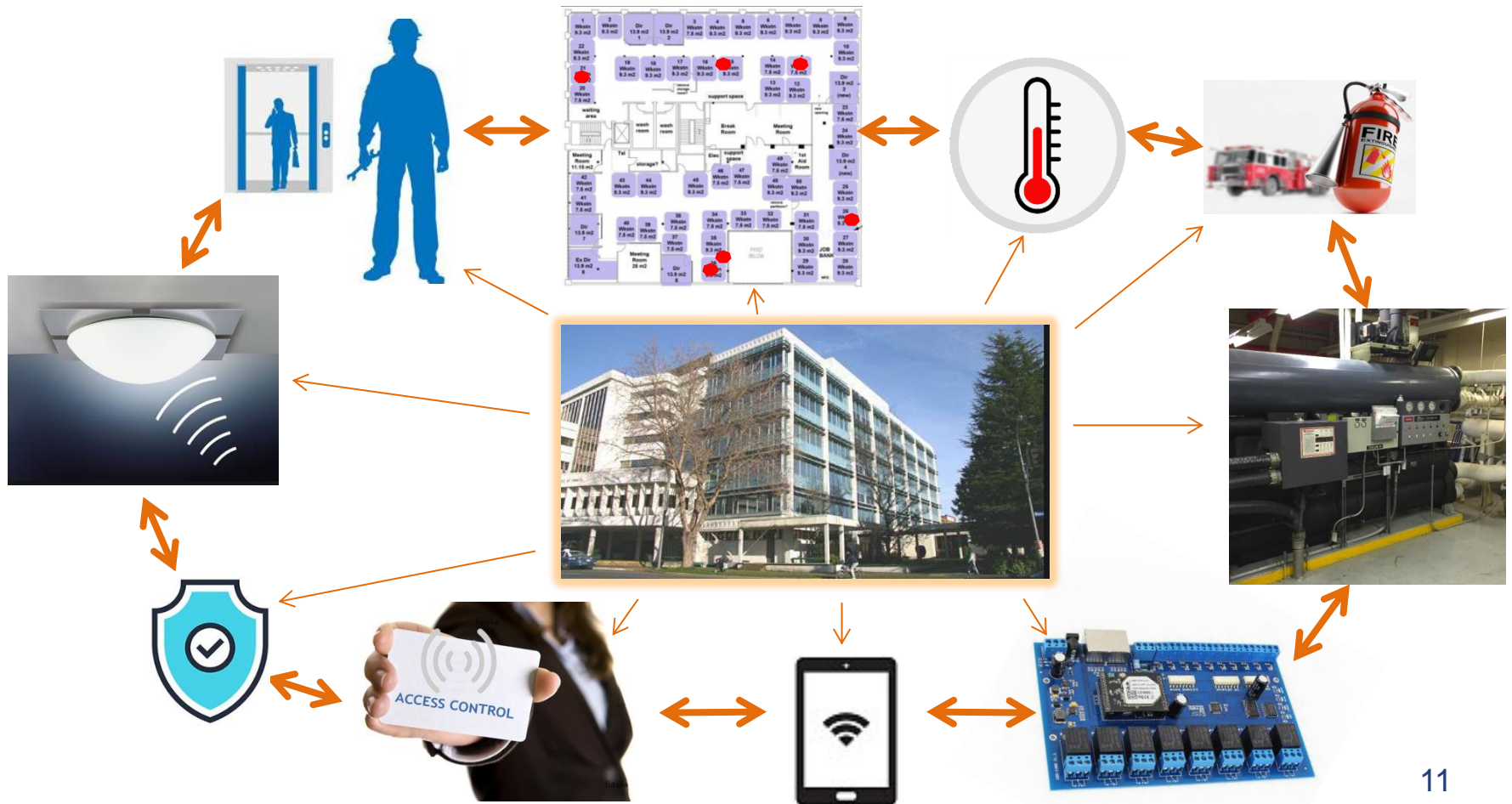
Long-
term

Human &
Automation

Longevity

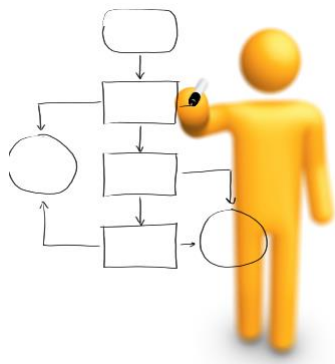
Comfort

What – Energy Smart Buildings & CITZ



How – Energy Smart Buildings & CITZ

- Investigate
- Strategize
- Partner
- Retrofit





***“We shape our buildings; thereafter they
shape us.”***

Winston Churchill

***“Rome wasn't built in a day, but they were
laying bricks every hour.”***

John Heywood