



# CleanBC Funding Application H<sub>2</sub>O Energy Efficiency

April 15, 2019



# CleanBC Communities Fund

- ▶ Infrastructure funding for:
  - ▶ Renewable energy
  - ▶ Access to clean energy transportation
  - ▶ Generation of clean energy
  - ▶ **Improved energy efficiency of buildings**

# CleanBC Communities Fund

- ▶ Goal:
  - ▶ Support projects that contribute towards GHG reductions & climate change mitigation

# CleanBC Communities Fund

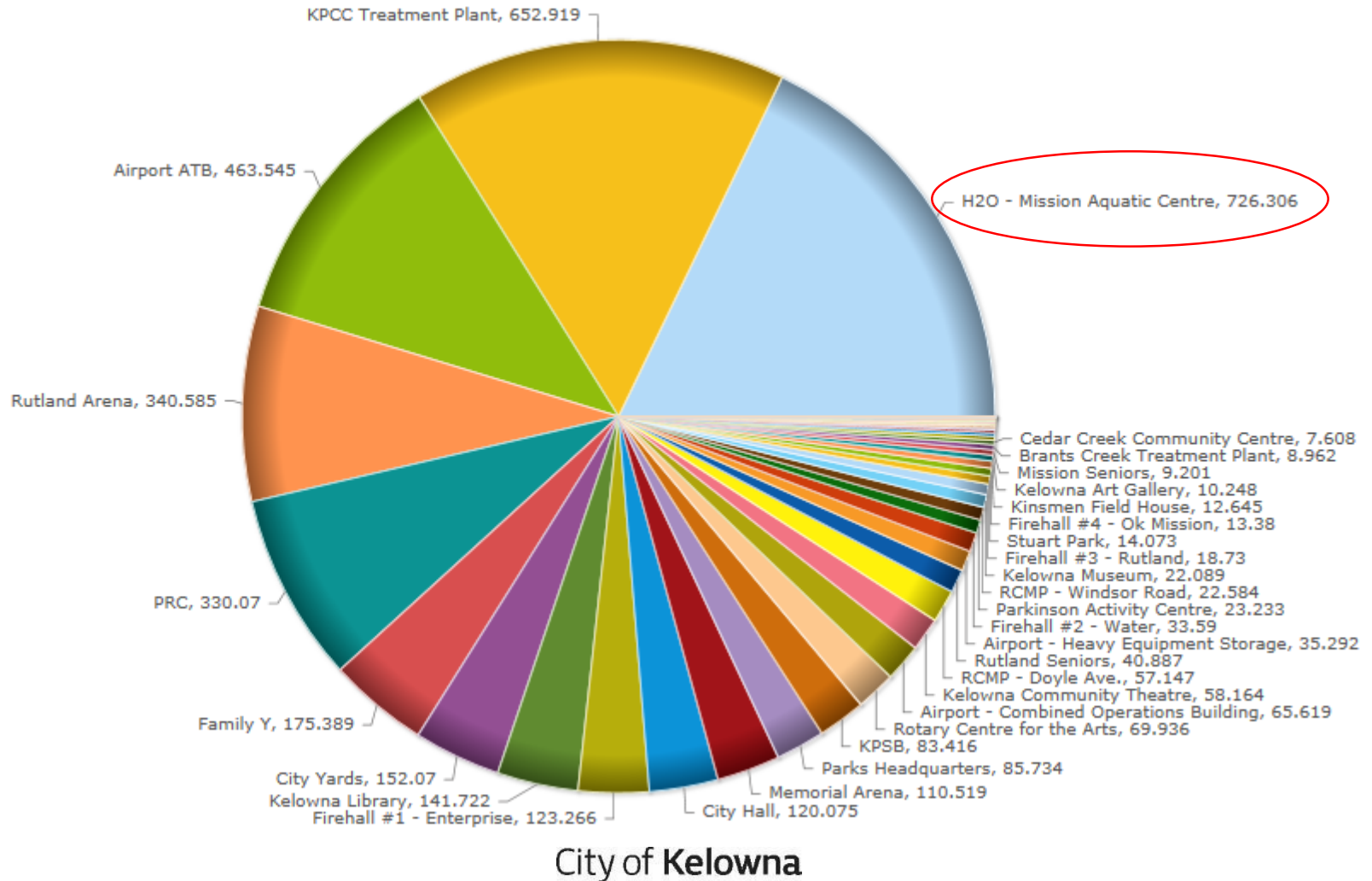
- ▶ Funding:
  - ▶ Gov't of Canada – 40%
  - ▶ Province of BC – 33.33%
  - ▶ **City of Kelowna – 26.67%**

# H<sub>2</sub>O Adventure + Fitness Centre

## ▶ Annual Energy Savings

- ▶ Electricity 420,000 kWh
  - ▶ Natural Gas 5,900 GJ
  - ▶ GHG emissions 295 tonnes
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- ▶ Total utility savings of \$90,000

# Corporate Emissions



# Project Description

- ▶ Replace & upgrade the mechanical heating plant
  - ▶ Boilers
  - ▶ DHW
  - ▶ Heat Recovery Chiller (Heat Pump) + Storage Tanks
- ▶ LED lighting conversion

# Project Description

- ▶ Lighting controls
- ▶ Variable frequency drives (VFD's)
- ▶ Energy tracking software & metering equipment
- ▶ Mechanical cooling (fitness area and pool area)



# Project Costs

- ▶ Total project cost                    \$2,584,900
- ▶ City contribution                      \$ 690,000

# Benefits

- ▶ Capital Renewal
- ▶ Occupant Comfort/Levels of Service
- ▶ GHG Reduction
  - ▶ Corporate reduction target of 5% by 2022

Year	GHG Emissions Reduction (tonnes CO <sub>2</sub> e)	
2007 - 2016	569	7%
H <sub>2</sub> O Project	295	4%



*Questions?*

For more information, visit [kelowna.ca](http://kelowna.ca).