



West Hants
something inspiring awaits

Sustainable Communities Challenge Fund

November 24, 2022

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The Fund

- Offers grants between \$75,000-\$1 million
- WHRM contribution depends on size of the project(s)
 - Minimum 20% for projects under \$250,000
 - Minimum 30% for projects \$250,000-\$500,000
 - Minimum 40% for projects over \$500,000
- In-kind contributions can be up to 10% of project costs
- Pre-screening deadline is December 2, full applications are due December 16
- Project expenditures required by December 31, 2024

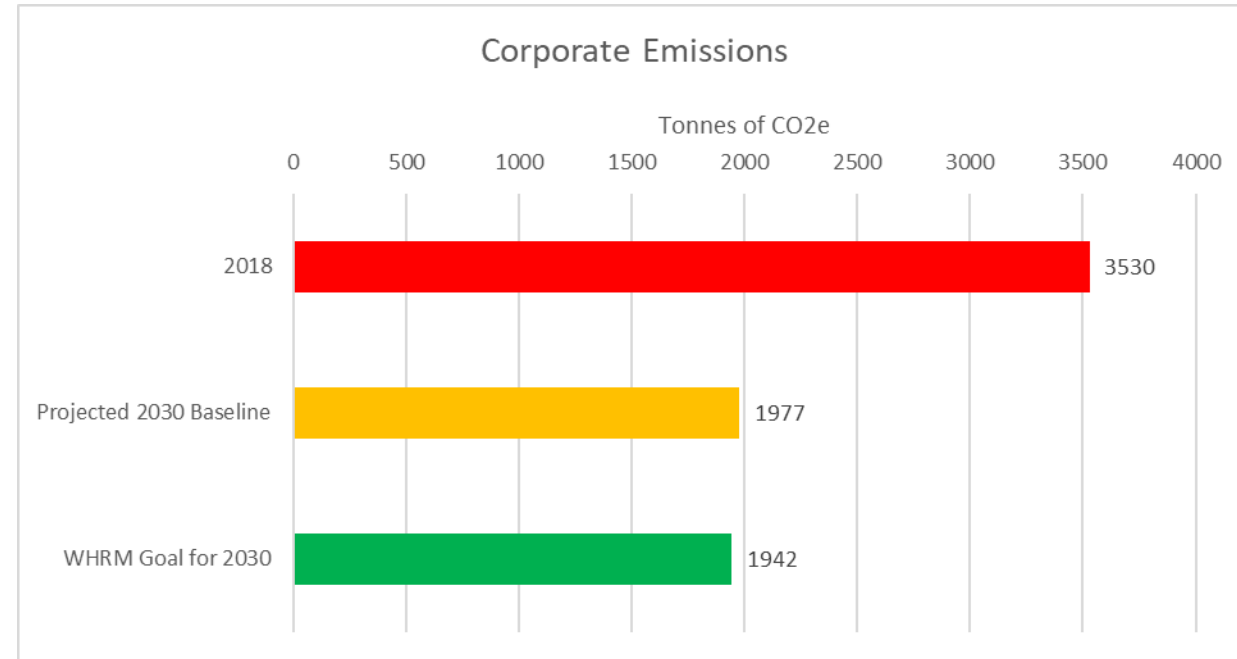
The Fund Cont.

- 2 focus streams to address climate change:
 - Mitigation – reducing/eliminating GHG emissions
 - Adaptation – adjusting to changes already occurring due to climate change
- I suggest a mitigation project to progress toward the goal of a 45% reduction in annual corporate emissions by 2030
 - A medium-scale solar project for energy generation and consumption offsetting could be relatively quick to implement – implementing this is also a stated goal of the MCCAP Committee



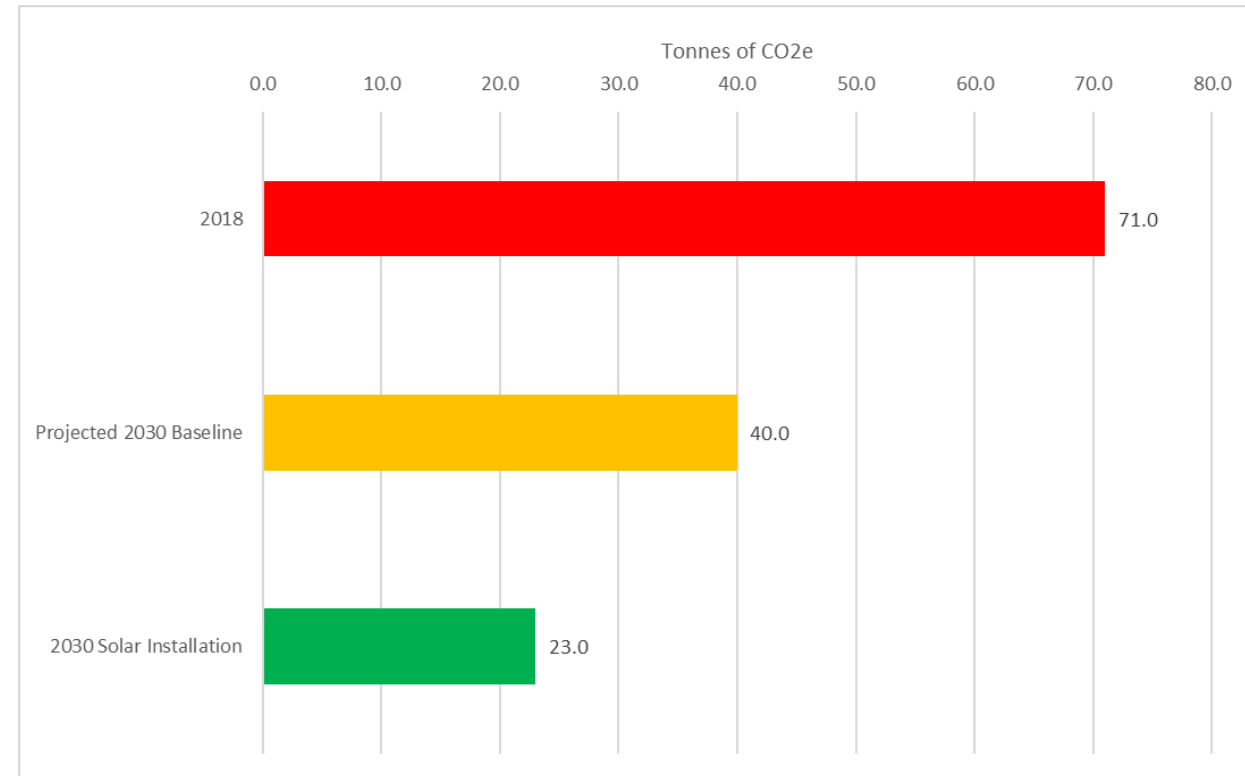
WHRM Corporate Emissions

- Red bar shows Corporate emissions from the inventory of the 2018/19 fiscal year
- Yellow bar shows projected emissions in 2030 based on greening of the NSP grid
- The green bar shows the Municipal goal of a 45% reduction in annual emissions by 2030
 - A required reduction on the Municipality's part of 35.3 tonnes of GHG emissions in 2030
 - A solar installation could be sized to meet the Municipality's goal with a 48 kW system, taking up ~2900 sq. ft. and would cost ~\$130,000



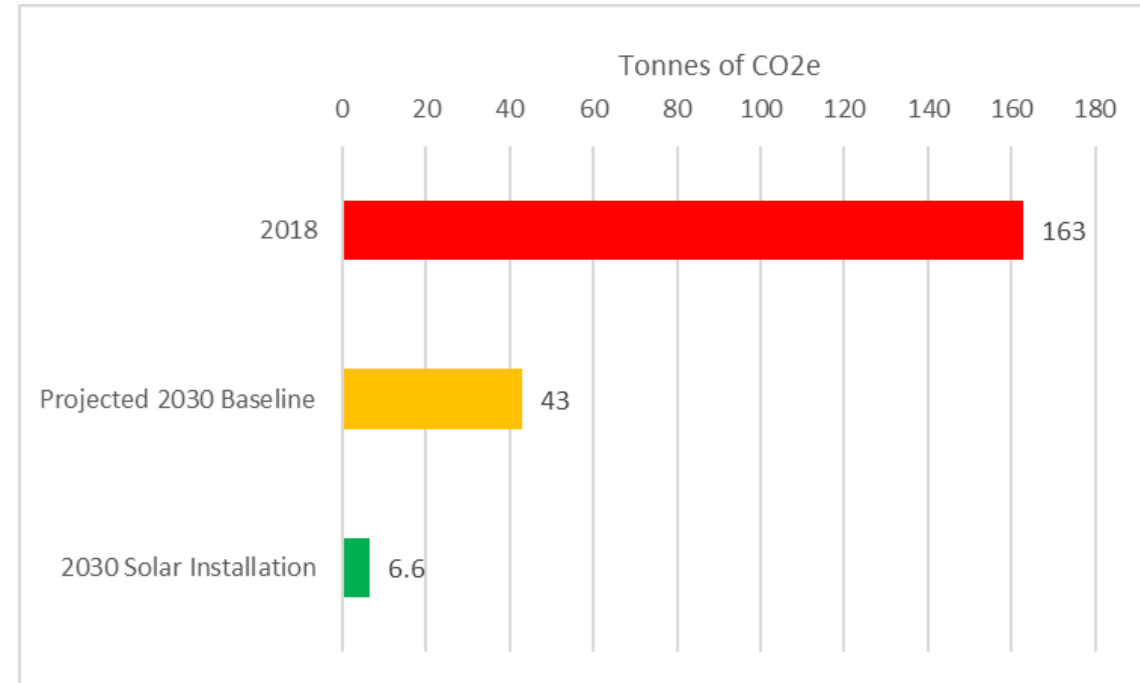
Community Center

- Red bar shows emissions in 2018/19
- Yellow bar shows projected emissions in 2030 based on greening of the NSP grid
- Green bar shows emissions when offsetting with a rooftop solar system – based on available space
 - Total cost estimate of \$215,000
 - Would offset 203% of the building’s power demand
 - Eliminates 17 tCO₂e in 2030, 42% of the building’s emissions



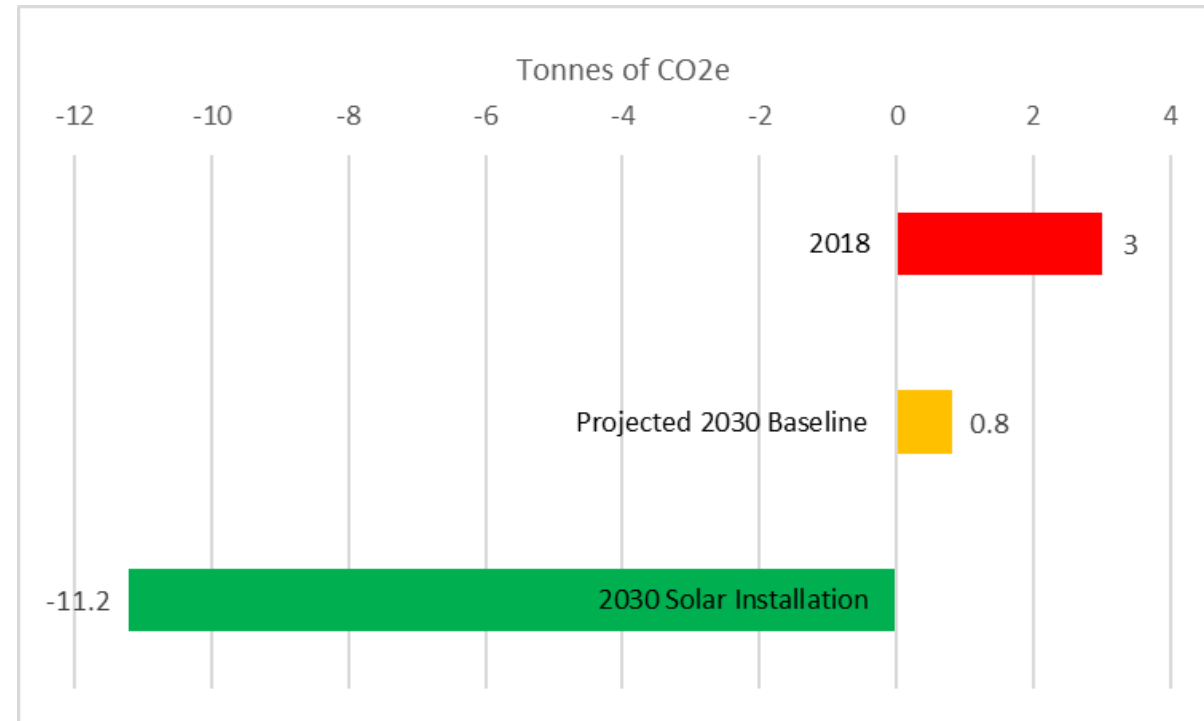
Brooklyn Fire Station & Civic Center

- Red bar shows emissions in 2018/19
- Yellow bar shows projected emissions in 2030 based on greening of the NSP grid
- Green bar shows emissions when offsetting with a rooftop solar system – based on available space
 - Total cost estimate of \$458,000
 - Would offset 89% of the building's power demand
 - Eliminates 36.4 tCO₂e in 2030, 85% of the building's emissions



Coach House

- Red bar shows emissions in 2018/19
- Yellow bar shows projected emissions in 2030 based on greening of the NSP grid
- Green bar shows emissions when offsetting with a rooftop solar system – based on available space
 - Total cost estimate of \$151,000
 - Would offset 1445% of the building's power demand
 - Eliminates 12 tCO₂e in 2030, 1500% of the building's emissions



Other Locations

- Falmouth wastewater treatment plant (48 Falmouth Connector Rd)
 - Adjacent land that could be used for a large solar system
- New Windsor wastewater treatment lagoons (293 Wentworth Rd)
 - Public Works suggestion, there may be plenty of available space on the ground at the plant and on the roof
 - Aerial photos are not available; would need more specifics on available space to estimate solar potential

Facilities not Considered

- Water treatment plants – not in visible locations
- Old Windsor Lagoons (3 Lagoon Dr) – little available space
- Municipal Complexes (100 King St. and 76 Morison Dr.) – current administrative complex review
- West Hants Sports Complex – roof space not readily visible
- Hants Aquatic Center – little available space



What is Needed

- A decision on project scope and location to determine an approximate budget; we could move forward with a project that:
 - Is big enough to eliminate 1% of corporate emissions to meet the Municipal goal; or
 - A project that would exceed the goal – I recommend exceeding the goal, especially when applying for this fund, which places emphasis on the Provincial goal of a 53% reduction of annual emissions by 2030
- A recommendation to Council for a resolution to fund the WHRM contribution if we are successful in applying for this grant





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