

DRAFT

December 17, 2018

Memorandum

To: Shannon Lewis, Melbourne City Manager

CC: Melbourne Mayor and City Council

From: John Windsor, Melbourne Beautification and Energy Efficiency Board member

Subject: Recommendations for considering energy efficiency in the 2019-2023 Capital Improvement Projects (CIP) list and documenting ongoing City efforts at energy savings.

Recommendations from the Melbourne Beautification and Energy Efficiency Board (BEEB):

1. Create a log of all energy efficiencies undertaken in City departments
2. Encourage City staff to consider energy efficiency opportunities in CIP projects

Background: While the newly formed Melbourne Beautification and Energy Efficiency Board (BEEB) has been developing long term goals and strategies for operation, we felt it necessary to get started with making recommendations regarding energy efficiency as soon as possible. Presentations to the BEEB indicate many City of Melbourne departments are actively pursuing opportunities to upgrade and improve energy efficiency as equipment and materials are replaced. The BEEB is certain that energy efficiencies are being considered in all projects, however, there does not appear to be a single source of information to document those energy efficiencies considered and implemented by staff in all departments. Documentation of past and ongoing energy saving efforts would increase public awareness as well as make it possible to seek matching grant funds for upcoming projects.

Based upon a review of the City's 5-Year CIP list, the BEEB identified significant opportunities to help achieve the City's operations-wide goal of 100% clean energy by 2035. Examples of energy efficiency opportunities in the CIP include:

- FY19 AC Unit for Data Center at City Hall
- FY19 Carver Park Lighting
- FY19 Replacement RO Booster Pump and Motor Assemblies
- FY19-FY20 Surface Water Treatment Plant Replacement Generator
- FY20 Variable Frequency Drive Updates for Canova Station
- FY20 Upgrade Auto Transfer Switches at the RO Water Treatment Plant

Solar energy is not only clean energy but provides the opportunity for energy self-reliance. Examples of possible opportunities for solar in the CIP include:

- Solar energy for FY20-FY23 lighting at Fee Ave Tennis Courts and 5+ ballfields
- Solar energy for the FY20 new deck lighting at Fee Ave Pool
- Solar energy and no flush toilets for the FY21 Fee Ave and Jimmy Moore Pro Shops & Restrooms

- No flush toilets for the FY21 Front Street Park Restroom Replacement (perhaps solar for the restroom lighting)
- Solar energy and no flush toilets for the FY19 Police Department Headquarters Building
- Solar energy as part of FY22-FY23 roof replacements at Fleet Management building and Melbourne Auditorium
- Solar energy as part of FY19 Phase I Eau Gallie District Lighting
- Solar energy, or more boldly a waste-to-energy option for the multimillion-dollar upgrades for sewer and drinking water projects spanning FY19-FY22 and beyond.

We respectfully request your consideration of these energy efficient opportunities should any of these proceed to design and construction.

Dr. John Windsor,

Beautification and Energy Efficiency Board Member