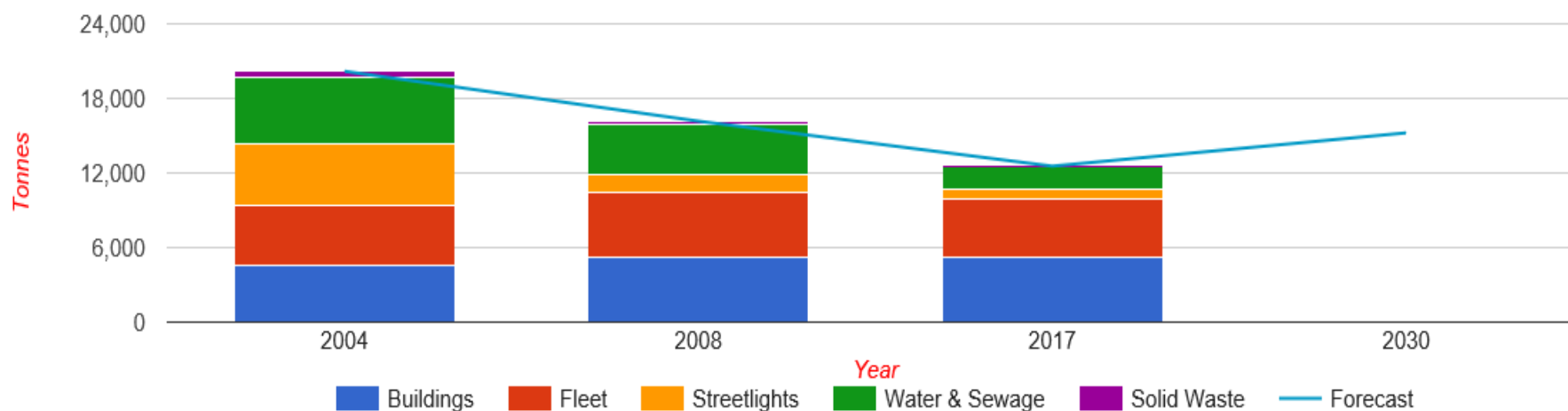


# Greenhouse Gases and Energy-Use

City of Fredericton corporate greenhouse gas emissions have decreased 38% over 2004 levels in 2017. Emission measurements include energy-use from all sources in buildings, energy-use in water & sewer operations, electricity use for streetlights and traffic lights, solid waste generated at City facilities and gas and diesel use for fleet vehicles and heavy and light equipment.

Decreases in GHG emissions over this time are attributed in large part to fuel-switching, lighting and controls upgrades in buildings and fleet optimization. The City must continue to actively work to decrease GHG emissions, as the model shows that over time with an increase in population and services delivered, emissions will rise again using current practices.

Corporate Greenhouse Gas Emissions 2004-2017



Over the same period that greenhouse gas emissions decreased by 38%, energy use remained fairly constant. This steady use is with the addition of new City-owned facilities and new and extended uses of existing facilities, such as arenas and ice surfaces being utilized in the summer months. Energy use has remained consistent while the City has been able to expand both its services and service quality through behaviour change (e.g. turning out lights when not needed; anti-idling campaigns) and the use of more efficient technologies including LED lights and efficient motors. Greenhouse gas emissions have also decreased through these measures with most of the emissions reductions being attributed to the use of more efficient technologies and fuel-switching in facilities despite increased energy consumption in buildings.

