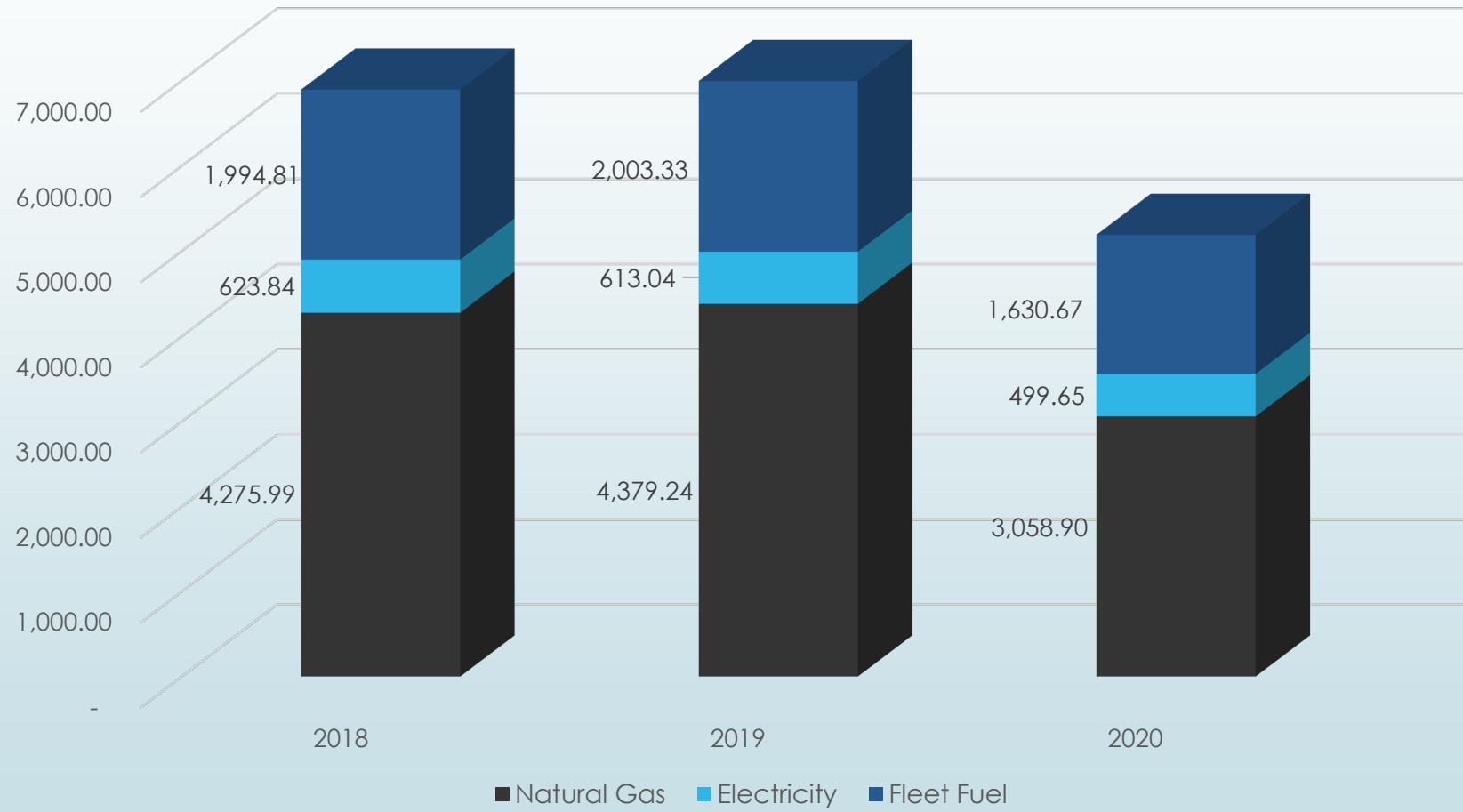


Corporate Energy & Emissions Management Plan Annual Update

Tom Pedlar – Corporate Energy and Emissions Coordinator

2019 and 2020 Data

Corporate Emissions (t eCO₂)



Project Highlights



Project Planning

Facilities near end of life and are soon to be replaced



- Varying degrees of attention required before end of life.
- Few major upgrades until end of life.
- Planning facility functions for replacement facility is very important.
- Reasonably low cost increase to include low carbon measures in a new facility (can vary based on building type).

Project Planning

Facilities that are here to stay



- Deep energy retrofit studies required to plan.
- Retrofits can be quite complicated.
- If opportunities are missed they may not come up again for 15-20 years.
- High cost increase to retrofit low carbon measures.
- Ongoing commissioning required.

Project Planning

New Facilities that have recently been replaced or retrofitted



- Ensure detailed building commissioning at time of construction.
- Ongoing training on facility systems for operations staff
- Ongoing commissioning

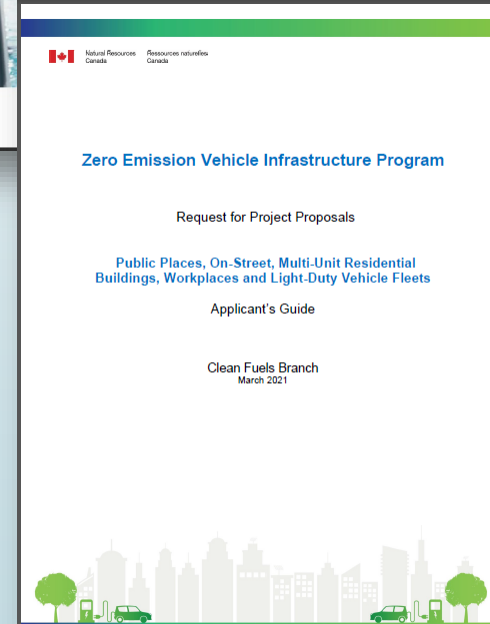
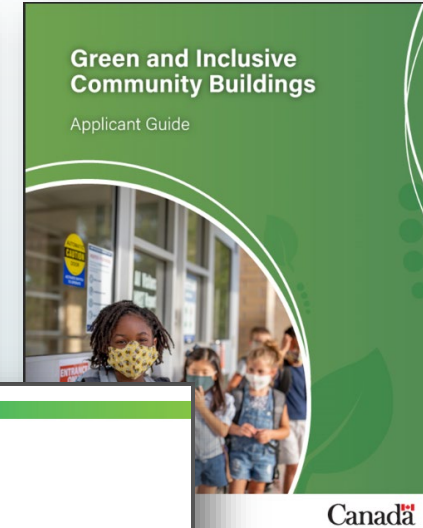


Commissioning

1. Define facility requirements
2. Ensure requirements are met at each phase of design development.
3. Create building specific checks and tests.
4. Ensure building/facility is performing as designed.
5. Continually monitor facility to ensure peak performance is continual.



What's Next?





Questions?

Tom Pedlar – Corporate Energy and Emissions Coordinator