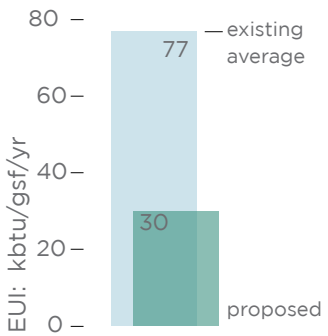
By separating potable and non potable water systems in the district, non potable water could replace potable water use for specific uses. For example, potable water would no longer need to be used for toilet flushes. It would be limited to potable uses such as hand washing or drinking. To accomplish this, part of the waste water would be treated on site to extract water for non potable uses. As a result the waste flow to DC's waste water treatment system would be minimized.

The following strategies have been informed by the conceptual modeling to define the revitalization scenario and to achieve Executive Order 13514.

CONCEPTUAL MODELING

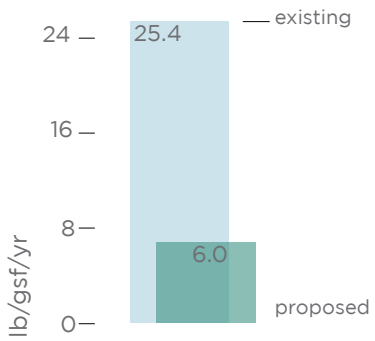
TOTAL ENERGY USE

Modeling of improvements to existing buildings identify significant reductions in energy use.



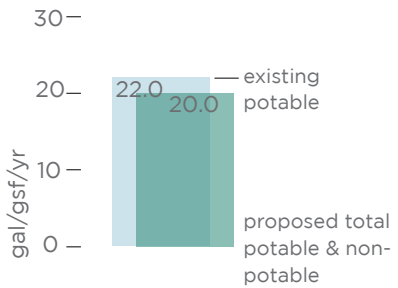
SCOPE 1 & 2 CARBON

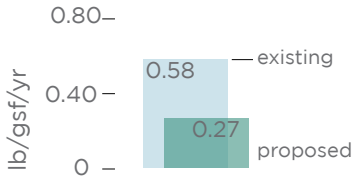
Improvements to existing buildings energy usage will lead to a reduction of carbon prior to the decarbonization of the central utility plant.



TOTAL WATER USE

Currently, all the water used is potable. The modeling identified a reduction in total water usage, with a significant reduction in potable water use.



TOTAL WASTE IMPACT

Improvements to the recycling program will lead to reduction in waste going to the landfill.