The City implements comprehensive natural resource management system

So that...
Kirkland protects and enhances its natural environment

So that...
Current and future residents of Kirkland enjoy a healthy natural environment and resources

### HOW ARE WE DOING?

The City calculated its first ever community greenhouse gas emissions report for the year ending 2017 which was published in spring of 2018. A major highlight from the report is that overall the city-wide greenhouse gas (GHG) emissions have declined from 2005 when they were calculated at 815,242 metric tons of carbon dioxide equivalent (MTCO2e). In fact, for the year ending 2017 the total GHG emissions were calculated at 640,900 MTCO2e, which is a reduction of 21.4% from the 2005 base year. This reduction occurred in spite of the annexation that took place in 2011, which added 31,000 people to the City’s population!

The City has been collaborating with the King County Cities Climate Collaborative (K4C) since 2014, to reduce GHG emissions from the production of electricity, vehicle miles travelled, combustion of natural gas; and to help strengthen building and energy codes in Washington State. Usually these types of activities are outside of the City’s direct influence and control. However, working regionally with the K4C has demonstrated an increase in the production of clean renewable electricity, can reduce the carbon intensity of gasoline in Washington State, and potentially lead to more energy efficient structures. The outcomes of these shared actions can substantially reduce overall GHG emissions in the near and long term for not only Kirkland, but well beyond our borders.

<table>
<thead>
<tr>
<th>Measure</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
<th>Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compliance with NPDES Stormwater Permits</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>Residential Recycling Diversion Rate</td>
<td>53.7%</td>
<td>54.5%</td>
<td>53.9%</td>
<td>54.8%</td>
<td>58.9%</td>
<td>Increase</td>
</tr>
<tr>
<td>City building electricity use (kilowatt/hour)</td>
<td>2,491,759</td>
<td>3,696,204*</td>
<td>3,532,456</td>
<td>3,664,878**</td>
<td>3,504,970</td>
<td>Decrease</td>
</tr>
<tr>
<td>City building natural gas usage (therm)</td>
<td>103,196</td>
<td>91,946*</td>
<td>95,927</td>
<td>111,938***</td>
<td>100,835</td>
<td>Decrease</td>
</tr>
<tr>
<td>Waste entering landfill from residences (tons)</td>
<td>21,840</td>
<td>21,742</td>
<td>21,869</td>
<td>20,980</td>
<td>18,535</td>
<td>Annual 2.5% decrease</td>
</tr>
<tr>
<td>Annual reduction in City’s greenhouse gas emissions as a percent of 2005 levels</td>
<td>14%</td>
<td>16%</td>
<td>-2.98%</td>
<td>.39%</td>
<td>11.73%</td>
<td>80 % below 2005 levels by 2050</td>
</tr>
</tbody>
</table>

*First full year of facility operations for the Kirkland Justice Center.
** 2015 – 2017 electricity fluctuations are due in part to City Hall remodel construction.
*** Puget Sound Energy notes that 2017 was much colder than 2016 and customers saw higher usage as a result.
The City continues to work on reducing waste, recycling and composting more and encouraging residents and businesses to do so as well. This is done through a variety of programs and outreach including its green business program EnviroStars, a regional green business one-stop-shop for Kirkland, Seattle, Bellevue, Redmond and others to help take environmental actions and get recognized for work they are already doing. Collaborations such as this make it easier for customers and the city to identify and support green business practices. In 2018, Kirkland continued significant work on multifamily recycling efforts. We offered specialized assistance to 35 properties and distributed around 1000 recycling bags and education to individual units. This outreach increased recycling capacity on site, educated residents about sorting, and increased food waste composting. These efforts have improved the multifamily diversion rate.

The City of Kirkland Solid Waste and Recycling staff continued work on other waste reduction and recycling projects. Kirkland declared April 2018 Earth Month, and celebrated with a variety of events and educational opportunities for the community. We held the first of its kind latex paint recycling event and collected almost 26,000 pounds of paint and containers for recycling. This was made into approximately 1,945 gallons of new recycled content paint.

The City is part of a voluntary, long-term agreement with Puget Sound Energy (PSE) to provide nearly all the City’s electricity use through PSE’s Green Direct program, which allows participants to directly invest in a specific renewable energy project while also locking into a stable and predictable price for electricity for ten years. This action will help remove the City’s electricity costs from a sometimes-volatile and unpredictable energy market. PSE estimates that the City’s use of Green Direct power will provide a reduction of 3,250,000 pounds of CO2.