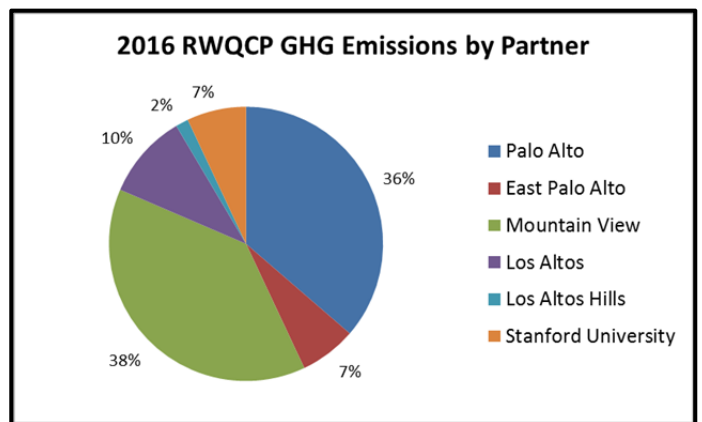
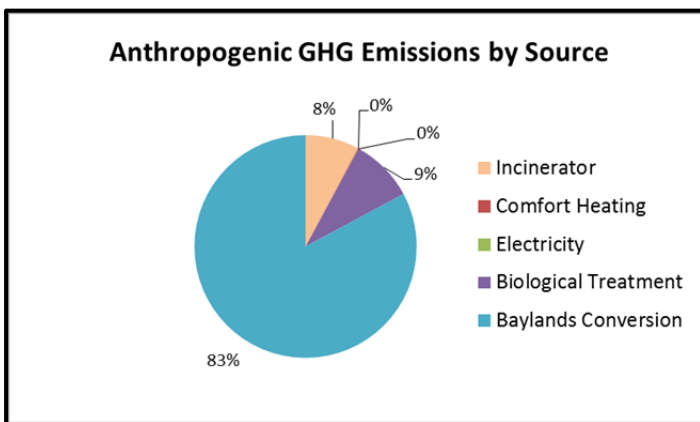
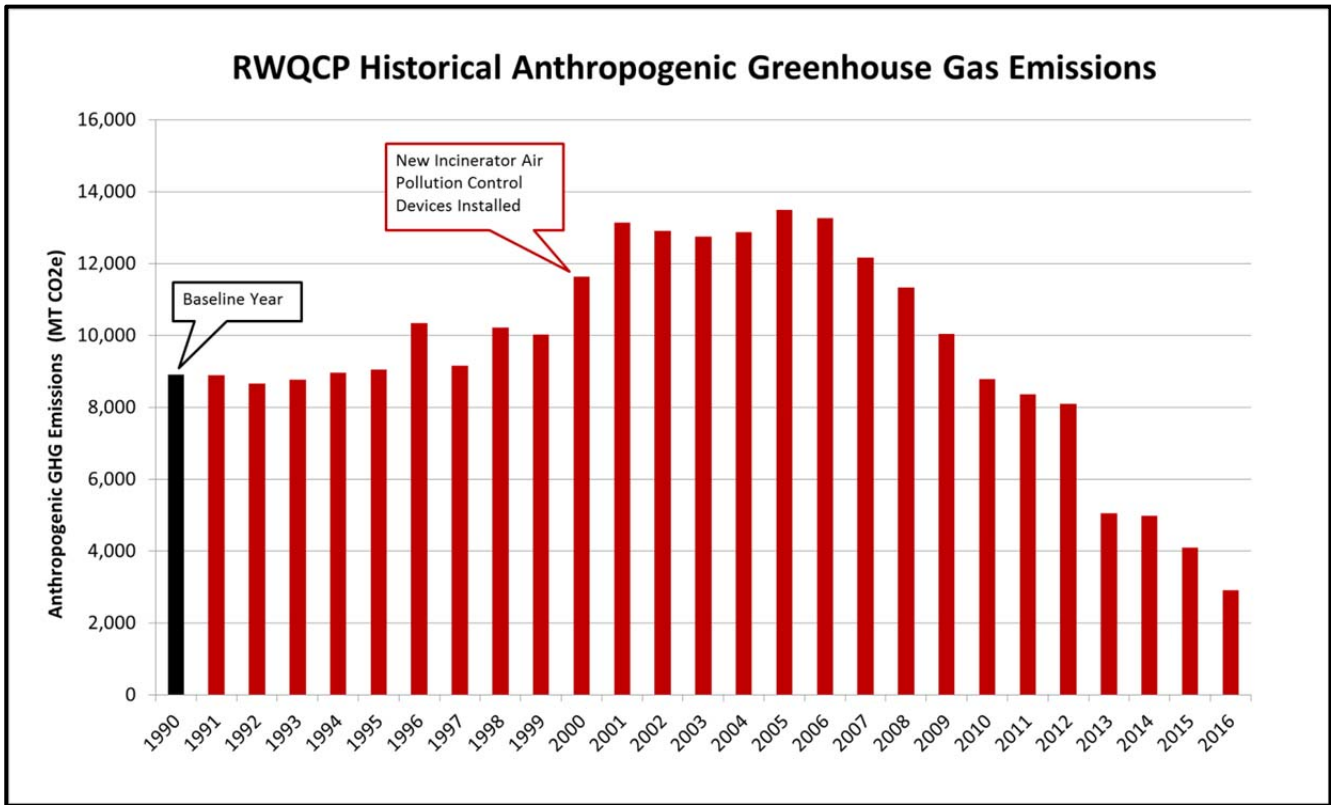


# GREENHOUSE GAS EMISSIONS FACTSHEET

April 2017

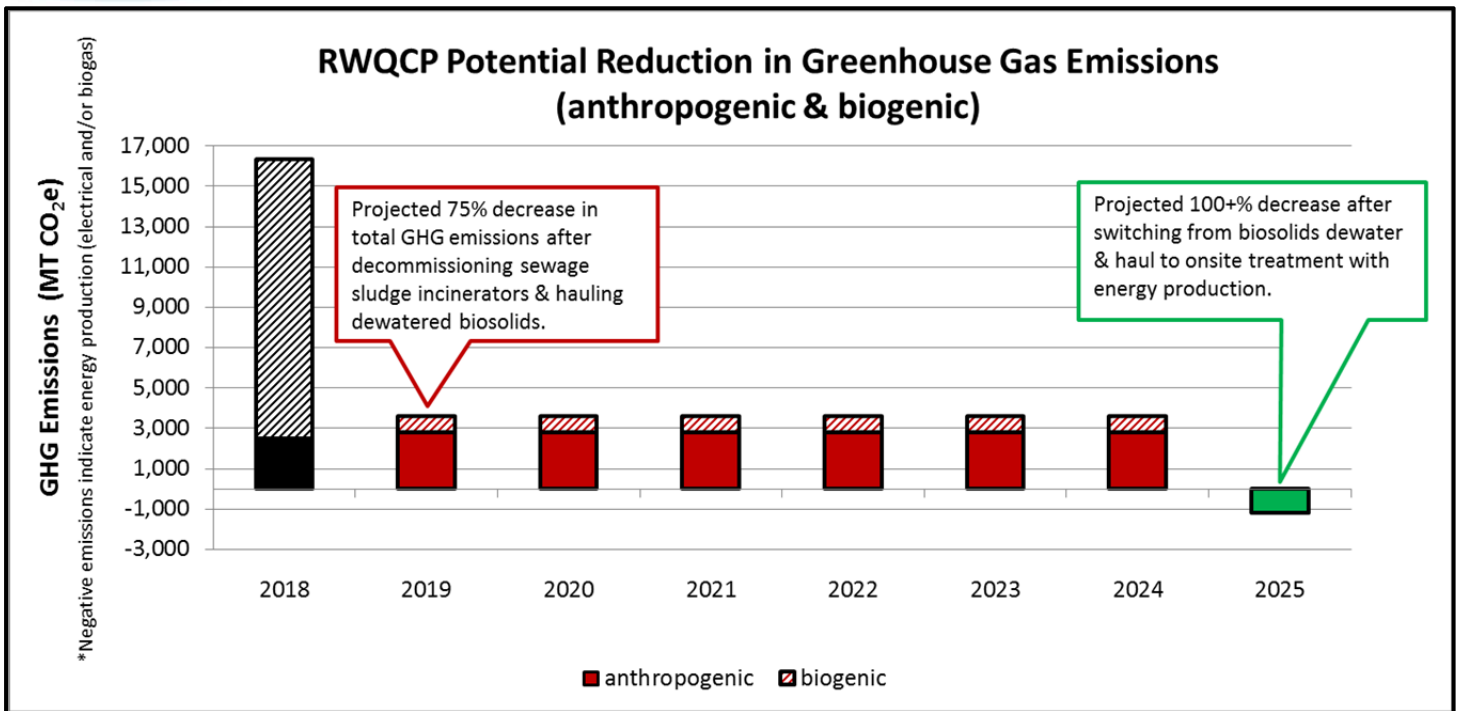
The Regional Water Quality Control Plant (RWQCP) treats wastewater collected from Palo Alto, Mountain View, Los Altos, Los Altos Hills, East Palo Alto Sanitary District, and Stanford University. The RWQCP is one of the City of Palo Alto’s major greenhouse gas (GHG) emitting municipal facilities; however, the RWQCP makes up 1% of the City’s estimated community-wide GHG emissions (CMR ID#6754). Since 2005, the RWQCP has undertaken numerous initiatives to decrease GHG emissions. These initiatives include purchasing green electricity and natural gas, routinely tuning the sewage sludge incinerators to decrease natural gas consumption, and utilizing landfill gas to further decrease natural gas used in the sewage sludge incinerators. Since 1990, the RWQCP has reduced its anthropogenic GHG emissions by more than 50%. The RWQCP is dedicated to reducing its GHG footprint and has incorporated GHG emissions as a key decision-making factor as it plans for a new biosolids treatment process and anticipated nutrient removal requirements.



GHG emissions are calculated using the Local Government Operations Protocol, version 1.1 & exclude biogenic emissions. GHG emissions associated with the switch to green electricity and green natural gas are included in the above totals.

# GREENHOUSE GAS EMISSIONS FACTSHEET (cont.)

April 2017



ASSUMPTIONS		
2018	2019 - 2024	2025
<ul style="list-style-type: none"> <li>Emissions are comparable to 2015</li> <li>All natural gas is green natural gas</li> </ul>	<ul style="list-style-type: none"> <li>Comfort heating gas usage is approximately the same as 2015</li> <li>Wastewater treatment process is the same as in 2015                             <ul style="list-style-type: none"> <li>Projected increases in population &amp; effluent nitrogen load</li> </ul> </li> <li>Sewage sludge incinerators decommissioned; hauling dewatered sewage sludge to Bay Area location                             <ul style="list-style-type: none"> <li>Emissions from sludge transportation included</li> <li>Emissions &amp; energy generated from disposal of sludge after transport not included</li> <li>Emission estimates for sludge disposal taken from the Biosolids Facility Plan (CH2MHill, 2014)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Comfort heating gas usage is approximately the same as 2015</li> <li>Sewage sludge treated onsite and energy produced                             <ul style="list-style-type: none"> <li>Amount of energy production will vary depending on biosolids treatment process</li> <li>Emission estimates for sludge disposal taken from the Biosolids Facility Plan (CH2MHill, 2014)</li> </ul> </li> <li>Wastewater treatment process is the same as in 2015 except for the addition of sidestream nutrient removal                             <ul style="list-style-type: none"> <li>Projected increases in population &amp; effluent nitrogen load</li> </ul> </li> </ul>