ABOUT HAYWARD
HAYWARD CITY COUNCIL PRIORITIES

- CLEAN
- GREEN
- COMPLETE STREETS
- COMPLETE COMMUNITIES
- TENNYSON CORRIDOR
- ORGANIZATION
- FISCAL
- SAFE
- THRIVE

CITY COUNCIL PRIORITIES
COUNCIL STRATEGIC INITIATIVES
SUPPORTING GOAL
INCORPORATE SOLAR PANELS AT LIBRARY AND GARAGE ROOF TO PROVIDE RENEWABLE POWER SOURCE FOR LIBRARY AND PLAZA

GOAL: ZERO NET ENERGY
GENERATE 100% OF FACILITY ELECTRICAL DEMAND BASED ON A PER ANNUM BASIS
Rainwater is harvested from the library roof, garage, site & plaza.

Upon demand, cistern water is pumped through 2nd stage filtration, sterilized with UV and stored in day tanks at the library.

Filtered and treated water is pumped into a 200K cistern located in the former library basement.

Hayward's 21st Century Library and Community Learning Center
Hayward Library Construction - Cladding, Roofs & Clerestory
HAYWARD’S ZNE POLICIES

**New and Retrofitted City Buildings**

Any new or significant retrofit of a City building that begins design after January 1, 2017 be constructed as ZNE.

- Adopted May 17, 2016

**Municipal Portfolio**

Goal: Achieve ZNE for City’s portfolio of facilities by 2025.

- Adopted December 6, 2016
EXISTING RENEWABLE ENERGY

Water Pollution Control Facility
  – Cogeneration System
  – Solar

Rooftop Solar PV
  • Animal Shelter
  • Utilities Center
  • Corporation Yard
  • Fire stations 2, 3, 4, 5 and 8
  • 21st Century Library & Community Learning Center
SOLAR – WATER POLLUTION CONTROL FACILITY

Phase One - 1 MW
(2010)

Phase Two - 600kW
(2020)
PROGRESS TOWARD ZNE PORTFOLIO

2017 Energy Generation/Demand
- Generated: 45%
- Purchased: 55%

2019 Energy Generation/Demand
- Generate: 65%
- Purchase: 35%

kWh needed to achieve to ZNE:
- 2017: 14.3 million
- 2019: 8.9 million
# Green Power Partnership Top 30 On-Site Generation List

Released on January 27, 2020

The Top 30 On-site Generation list represents those partners generating and consuming the most green power on-site within the Green Power Partnership. The combined on-site green power consumption of these organizations amounts to more than 1.8 billion kilowatt-hours of green power annually, which is equivalent to the electricity use of more than 147,000 average American homes each year.

<table>
<thead>
<tr>
<th>Partner Name</th>
<th>Annual On-site Green Power Usage (kWh)</th>
<th>On-site % of Total Electricity Use*</th>
<th>On-site Resources</th>
<th>Purchased Green Power (kWh)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Apple Inc.</td>
<td>532,750,885</td>
<td>29%</td>
<td>Biogas, Small-hydro, Solar</td>
<td>1,837,004,495</td>
</tr>
<tr>
<td>2. Procter &amp; Gamble</td>
<td>208,441,010</td>
<td>7%</td>
<td>Biomass, Solar</td>
<td>794,183,870</td>
</tr>
<tr>
<td>3. Walmart Inc.</td>
<td>184,669,184</td>
<td>1%</td>
<td>Solar, Wind</td>
<td>1,637,339,534</td>
</tr>
<tr>
<td>5. University of California</td>
<td>87,158,856</td>
<td>8%</td>
<td>Biogas, Solar</td>
<td>273,347,222</td>
</tr>
<tr>
<td>6. General Motors, LLC</td>
<td>73,215,623</td>
<td>2%</td>
<td>Biogas</td>
<td>429,726,581</td>
</tr>
<tr>
<td>25. Gwinnett County, GA / F. Wayne Hill Water Resources Center</td>
<td>12,693,297</td>
<td>20%</td>
<td>Biogas</td>
<td>12,693,297</td>
</tr>
<tr>
<td>26. Yolo County, CA</td>
<td>12,628,926</td>
<td>100%</td>
<td>Solar</td>
<td>12,628,926</td>
</tr>
<tr>
<td>27. Volkswagen Group of America Chattanooga Operations, LLC</td>
<td>11,629,620</td>
<td>10%</td>
<td>Solar</td>
<td>11,629,620</td>
</tr>
<tr>
<td>28. City of Hayward, CA</td>
<td>11,294,253</td>
<td>54%</td>
<td>Biogas, Solar</td>
<td>11,294,253</td>
</tr>
<tr>
<td>29. City of Portland, OR</td>
<td>11,064,486</td>
<td>9%</td>
<td>Biogas, Small-hydro</td>
<td>106,682,319</td>
</tr>
<tr>
<td>30. Albertson’s Inc. / Select Locations</td>
<td>10,828,361</td>
<td>17%</td>
<td>Solar, Wind</td>
<td>10,828,361</td>
</tr>
</tbody>
</table>
NEW FIRE STATION 6 & FIRE TRAINING CENTER
NEW FIRE STATION 6 & FIRE TRAINING CENTER
NEW FIRE STATION 6 & FIRE TRAINING CENTER
STACK CENTER – COMING SOON!
STACK CENTER

- Pediatric Clinic
- Multi-Purpose
  - Wellness Lobby
  - Cafe
  - Public Art
- Childcare
- Behavioral Health
  - Meeting Rooms
  - Clinical Training
- Education
- Technology Lab
Prepare a plan to facilitate transition of natural gas appliances to electric in City facilities.
Questions?

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