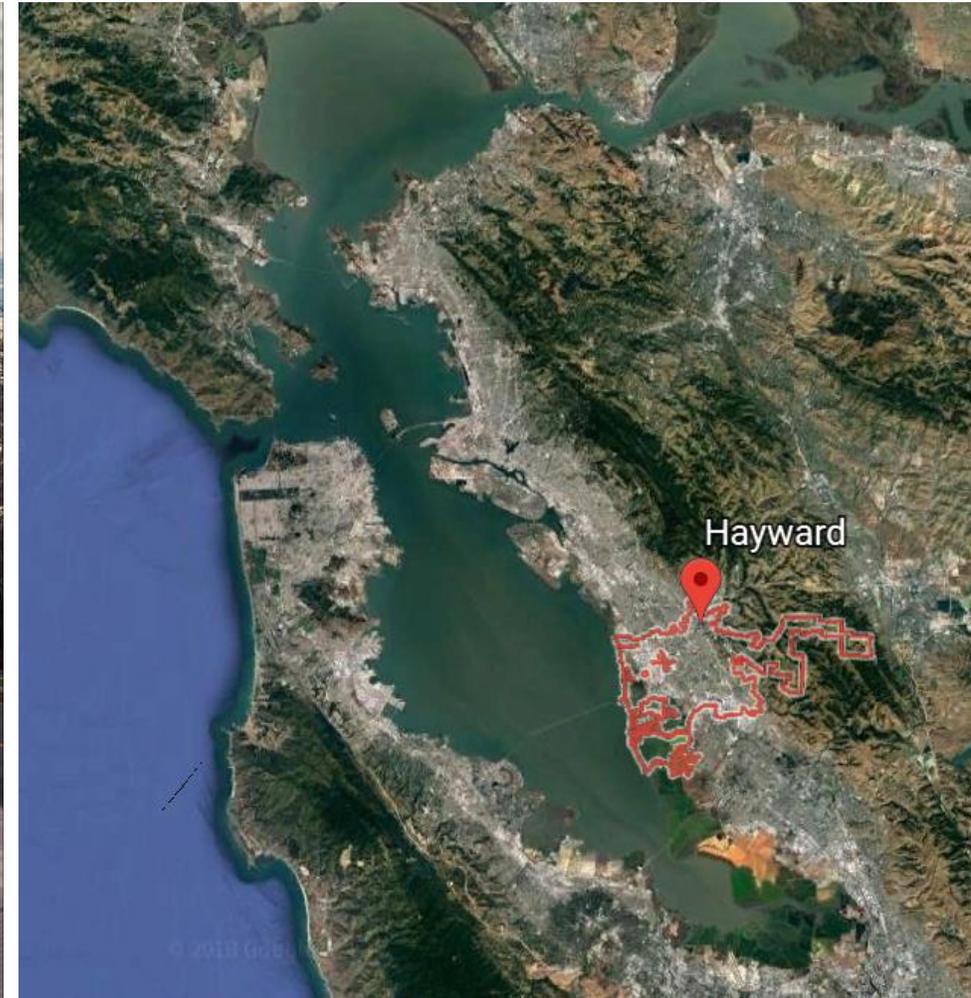


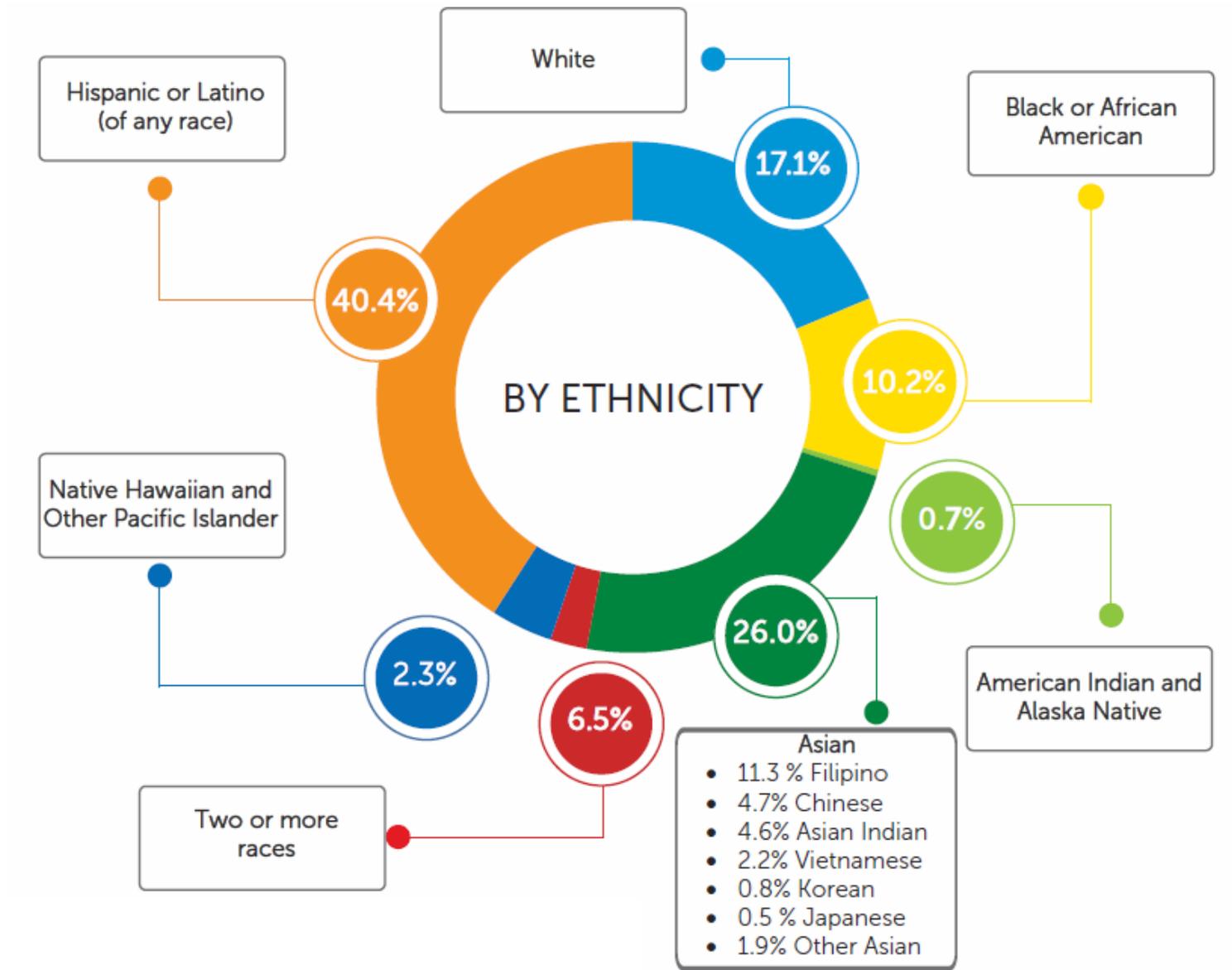
CITY OF HAYWARD



ABOUT HAYWARD



COMMUNITY PROFILE

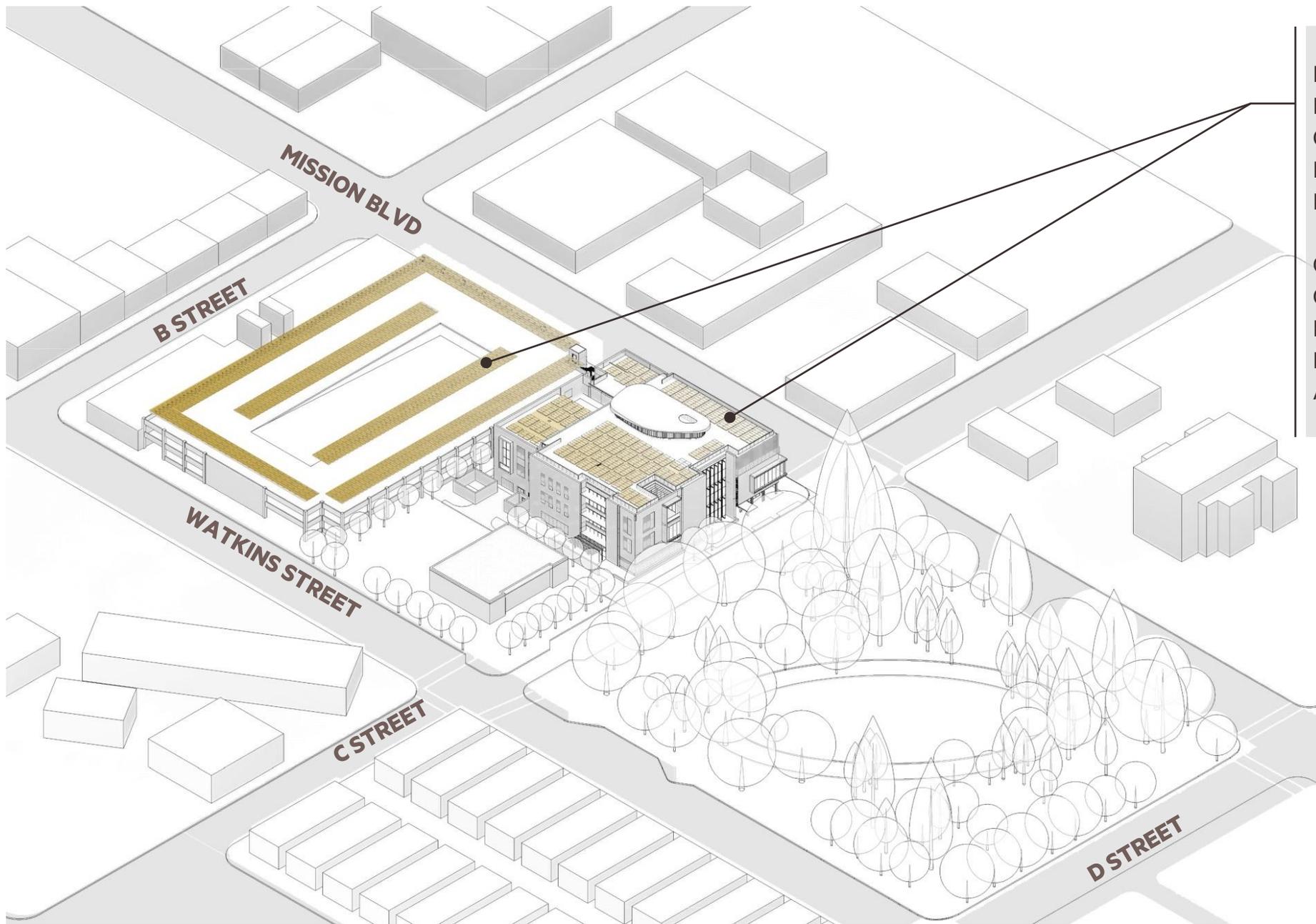


HAYWARD CITY COUNCIL PRIORITIES





Envisioned Hayward Library at C Street and Mission Boulevard

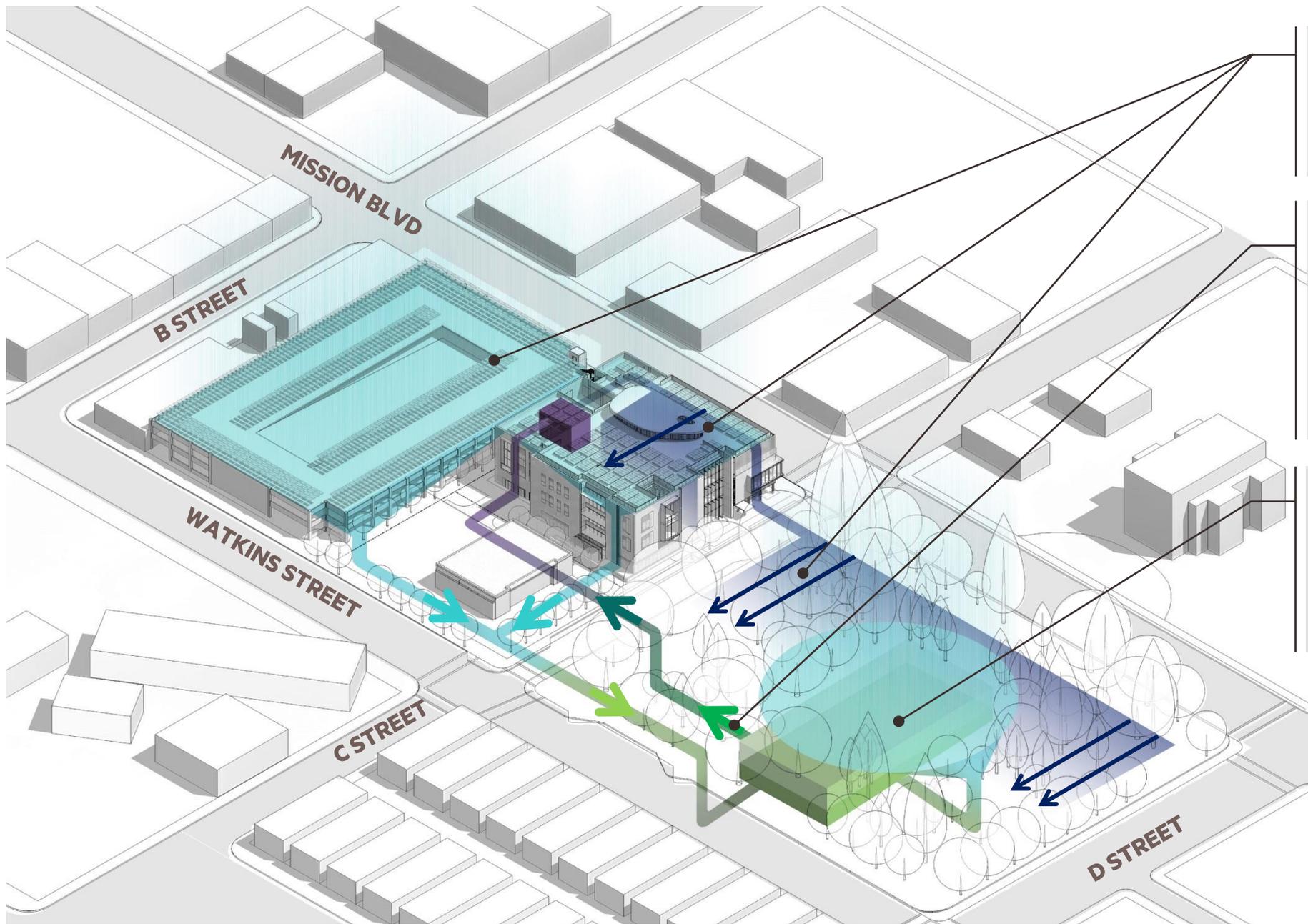


INCORPORATE SOLAR PANELS AT LIBRARY AND GARAGE ROOF TO PROVIDE RENEWABLE POWER SOURCE FOR LIBRARY AND PLAZA

GOAL: ZERO NET ENERGY GENERATE 100% OF FACILITY ELECTRICAL DEMAND BASED ON A PER ANNUM BASIS

Hayward's 21st Century Library and Community Learning Center

ENERGY USE & GENERATION



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

RAINWATER HARVESTING & REUSE



Hayward Library Cistern Installation



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





Hayward Library – April 2019

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)

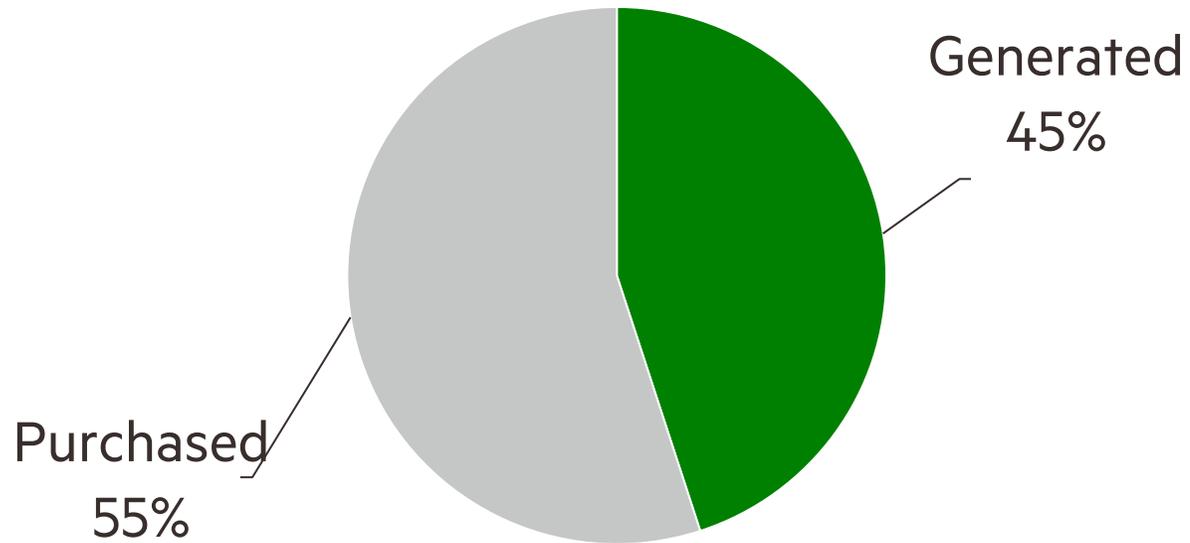


Phase Two – 600kW
(2020)

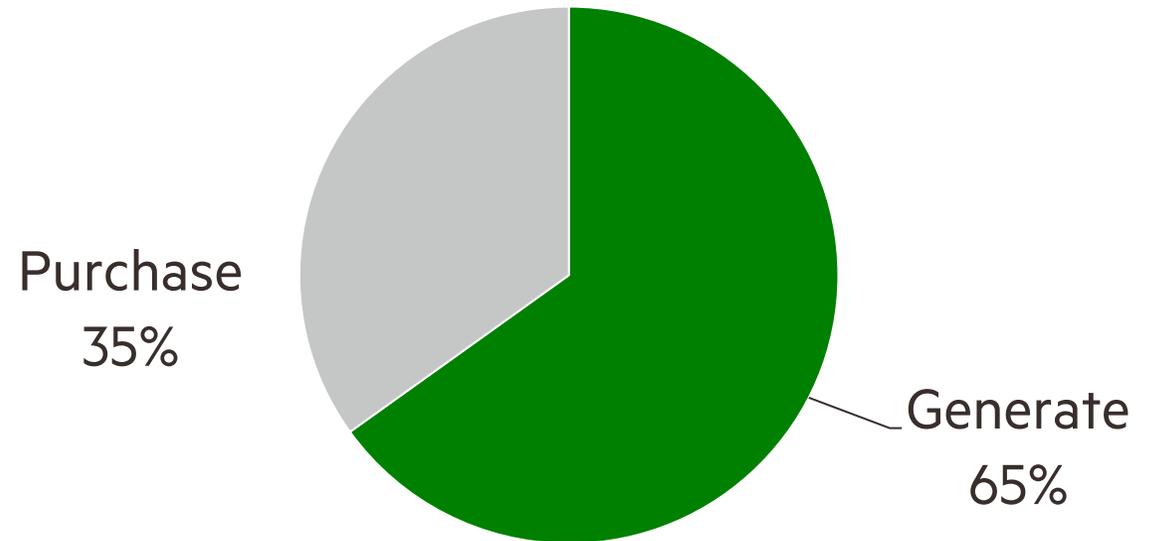


PROGRESS TOWARD ZNE PORTFOLIO

2017 Energy Generation/Demand



2019 Energy Generation/Demand



kWh needed to achieve to ZNE:

14.3 million

8.9 million

EPA Green Power Partnership

Green Power Partnership Top 30 On-Site Generation List

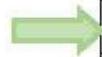
Released on January 27, 2020

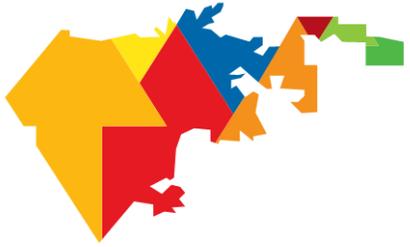


The Top 30 On-site Generation list represents those partners generating and consuming the most green power on-site within the Green Power Partnership. The combined on-site green power consumption of these organizations amounts to more than 1.8 billion kilowatt-hours of green power annually, which is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

American homes each year.

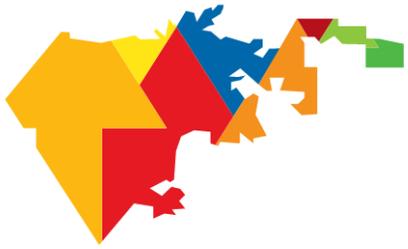
Partner Name	Annual On-site Green Power Usage (kWh)	On-site % of Total Electricity Use*	On-site Resources	Purchased Green Power (kWh)
1. Apple Inc.	532,750,885	29%	Biogas, Small-hydro, Solar	1,837,004,495
2. Procter & Gamble	208,441,010	7%	Biomass, Solar	794,183,870
3. Walmart Inc.	184,669,184	1%	Solar, Wind	1,037,330,534
4. State of California	88,899,994	7%	Solar	232,580,402
5. University of California	87,158,856	8%	Biogas, Solar	273,347,222
6. General Motors, LLC	75,215,623	2%	Biogas	429,726,581
25. Gwinnett County, GA / F. Wayne Hill Water Resources Center	12,693,297	20%	Biogas	12,693,297
26. Yolo County, CA	12,628,926	106%	Solar	12,628,926
27. Volkswagen Group of America Chattanooga Operations, LLC	11,629,620	10%	Solar	11,629,620
28. City of Hayward, CA	11,294,253	54%	Biogas, Solar	11,294,253
29. City of Portland, OR	11,064,486	9%	Biogas, Small-hydro	106,682,319
30. Albertson's Inc. / Select Locations	10,828,361	17%	Solar, Wind	10,828,361





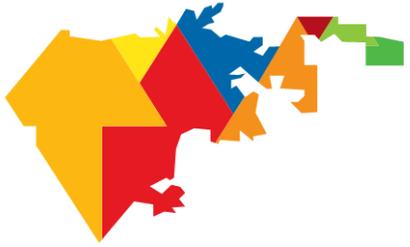
NEW FIRE STATION 6 & FIRE TRAINING CENTER





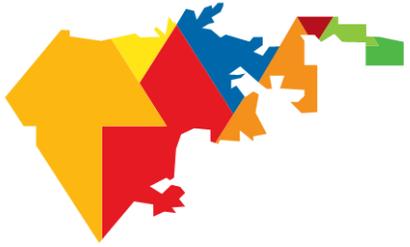
EXISTING FIRE STATION 6 & FIRE TRAINING CENTER





NEW FIRE STATION 6 & FIRE TRAINING CENTER





NEW FIRE STATION 6 & FIRE TRAINING CENTER



STACK CENTER – COMING SOON!





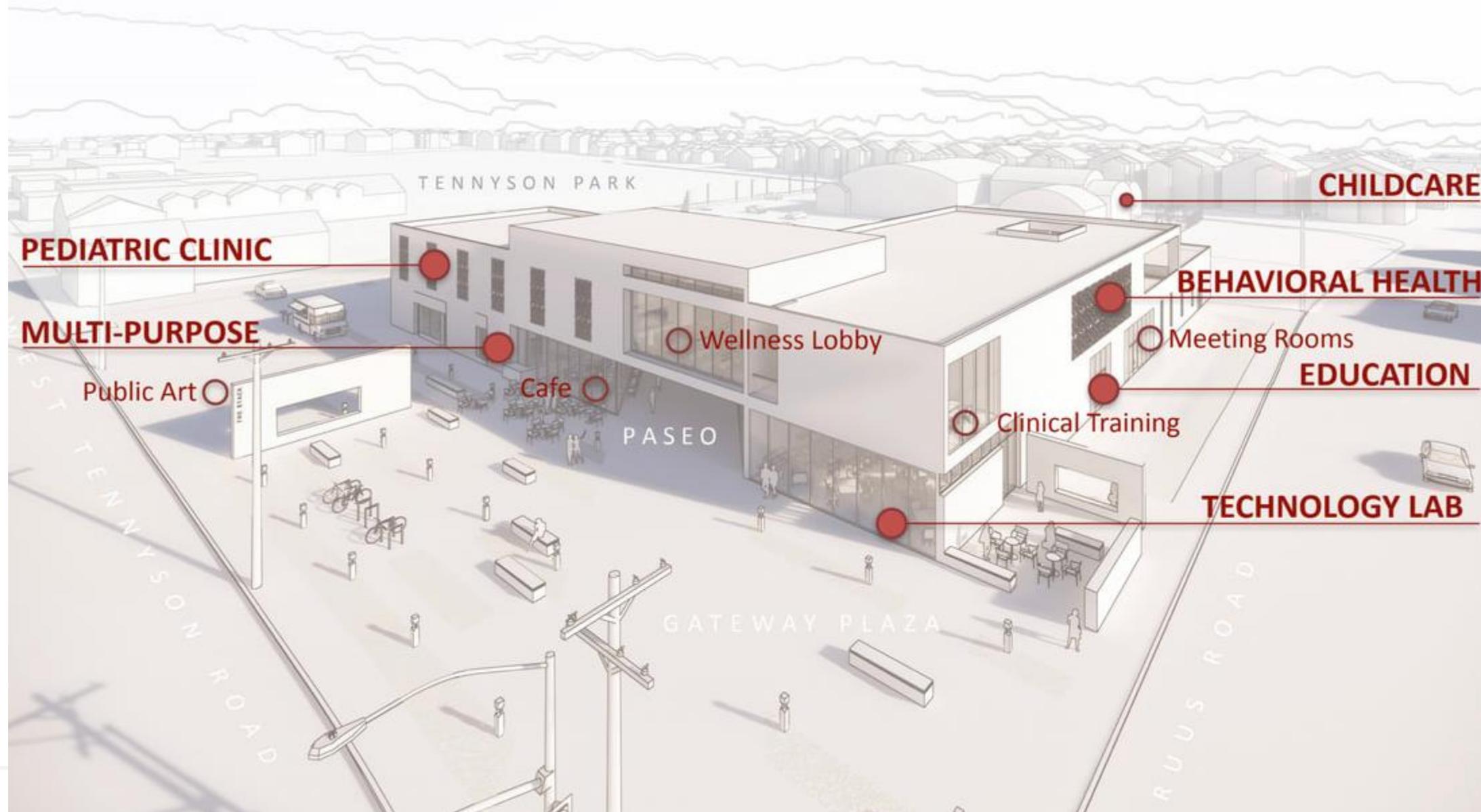
Existing



Planned



STACK CENTER



Strategic Roadmap

City of Hayward
Fiscal Years 2021/22 to 2023/24



Prepare a plan to facilitate transition of natural gas appliances to electric in City facilities.

Questions?



Erik Pearson, Environmental Services Manager

erik.pearson@hayward-ca.gov