

# Dishwasher Electrification



Newly installed, all-electric dishwasher at Stanford Hospital



## Program Description

The **Commercial & Industrial Energy Efficiency Program** provides City of Palo Alto Utilities (CPAU) commercial and industrial customers with a free high-level assessment of their facility's energy usage and concrete recommendations for saving energy.

## Project Overview

The Commercial & Industrial Energy Efficiency Program provided an on-site investigation of Stanford Health Care's new adult hospital facility at 500 Pasteur Drive that qualified the customer for an incentive of **\$56,735** from CPAU's **Business Customer Rebate Program (BCR)**

Veolia, the designated engineering consulting company for this program, evaluated energy efficiency opportunities and CPAU informed the customer of the potential incentive amount and estimated energy savings if they chose to proceed with the recommended installation.

This customer decided to replace their existing Hobart Model FT1000ER commercial dishwasher that uses steam and electricity with a Hobart Model FT1025e all-electric dishwasher. Once the installation was complete, Veolia conducted power monitoring to confirm energy savings. The customer was then provided with their incentive check from CPAU based on the verified savings.

## Program Benefits

- On-site, custom facility energy evaluation from a qualified engineering consulting company.
- Detailed report on facility's energy use and recommendations for energy efficiency projects, including associated energy savings, costs and greenhouse gas emissions.
- Independent verification of achieved energy savings after installation.
- Turnkey project implementation services can be provided by the City's engineering consultant for an additional fee.

## HIGHLIGHTS

**Year Built**  
2019

**Location**  
500 Pasteur Drive, Palo Alto

**Project Cost**  
\$462,715

**Services Provided**  
Commercial & Industrial Energy Efficiency Program

**Equipment Installed**  
Hobart Model FT1025e  
all-electric dishwasher

**Project Date**  
September 2024

**CPAU Rebate**  
\$56,735

**Estimated Emissions Reduction**  
88,873 lbs CO<sub>2</sub>e/yr

**Estimated Annual Energy Savings**  
226,940 kWh

The Commercial & Industrial Energy Efficiency and Business Customer Rebate Programs are brought to you by the City of Palo Alto Utilities



8 passenger cars not  
being driven for 1 year



5 households'  
electricity use per year



938 tree seedlings  
grown for 10 years



12 tons of waste recycled  
instead of landfilled



4,165 gallons of  
gasoline saved



0.30 acres of forest  
preserved from deforestation

GHG reductions represented in equivalent savings

### Installation

Stanford Health Care removed their old Hobart Model FT1000ER dishwasher and installed a new Hobart Model FT1025e all-electric dishwasher. To accommodate the new unit, they also upgraded the electrical and plumbing systems. The image on the first page shows the newly installed dishwasher. Veolia verified the installation of the unit and conducted power monitoring for the following 35 days. The installation was successfully completed in September, 2024 and the total cost of the measure was **\$462,715**.

### Results: Energy Savings

The results of the power monitoring were used to estimate annual energy and GHG savings. As a result of the dishwasher replacement, the customer saw an increase in electricity use and decrease in natural gas use, which is expected for a fuel-switching project. Overall, the project led to net energy savings of **226,940 kWh**.

The energy savings are equivalent to annual greenhouse gas (GHG) savings of **88,873 lbs CO<sub>2</sub> equivalent** or **40 MT CO<sub>2</sub> equivalent** per year. The figure above shows these GHG reductions represented in equivalent savings.

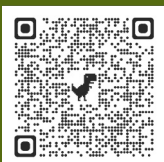
The verified post-installation energy savings were 70% more than the projected savings. This was a result of increased dishwasher usage from pre-installation to post-installation. Additionally, the new dishwasher's monitored power was lower than what was initially calculated, meaning it was more efficient than expected.

### Results: Cost Savings

Due to the increase in electricity use from the electrification effort, the customer incurred an annual utility cost increase of **\$6,920**. However, there were still overall energy savings, which resulted in a final incentive amount of **\$56,735**.

[CityofPaloAlto.org/Departments/Utilities/Electrification/Business-Electrification/Commercial-Industrial-Energy-Efficiency-Program](https://www.cityofpaloalto.org/Departments/Utilities/Electrification/Business-Electrification/Commercial-Industrial-Energy-Efficiency-Program)  
[CityofPaloAlto.org/Departments/Utilities/Electrification/Business-Electrification/Business-Customer-Rebates](https://www.cityofpaloalto.org/Departments/Utilities/Electrification/Business-Electrification/Business-Customer-Rebates)

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**Schedule a Site Assessment Today**

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