

# WPCP Energy Efficiency & Resiliency Program

Council Consideration  
September 28, 2020



# Program Goals



- Improve Overall Operation Efficiencies of WPCP
- Increase WPCP's Ability to Treat Additional Material
- Reduce GHG Emissions (Minimizing Flaring)
- Revenue Generation Opportunities
- Power Resiliency – PSPS, Power Outages, etc.





# Program Features

- Battery Energy Storage System (BESS)
- Biogas to Renewable Natural Gas (RNG) System
- High Strength Waste (HSW) Receiving Facility
- Digester Mixing System Enhancement
- High Efficiency Heat Loop Pump Enhancement
- High Efficiency Turbo Blower System Improvements





# Financial Highlights

Total Turnkey Infrastructure Improvements	\$	8,045,781
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## Funding Sources:

- |   |    |           |
|---|----|-----------|
| - Self-Generation Incentive Program (SGIP)  | \$ | 420,857   |
| - Climate Tech (BAAQMD Loan program) or<br>Municipal Lease (interest rate ~2.25% - 2.65%) | \$ | 7,624,924 |

Projected Lifecycle Savings/Revenue (15 Years)	\$	14,322,177
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# Program Benefits for Community

- Long-term ratepayers cost savings
- Industrial customers will be incentivized to pre-treat high-strength discharge
- Industrial customers with pre-treatment technology can dispose locally
- Extend equipment life + lower operational costs (WPCP - highest industrial load in Bay Area)
- Capture wasted gas for renewable purposes & revenue generation opportunities
- Further WPCP energy independence (24-7 operation to serve community)





# Annual Environmental Benefits



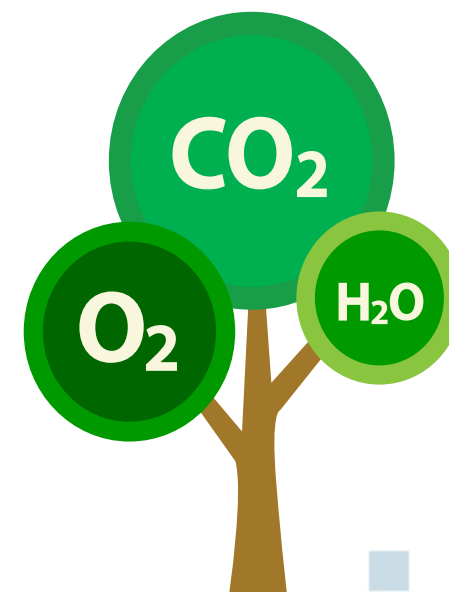
58

Cars off the Road



42

San Leandro Homes Powered



8,306

Trees Preserved from Deforestation



# Next Steps

## Event

*Council Approval to Seek SGIP Funding*

*SGIP Application Approved by PG&E*

**Council Consideration of Climatec Agreement**

Council Consideration of Funding Agreement(s)

Commence Implementation Program

Implementation Period

## Date

*Completed*

*Completed*

**Tonight**

Fall 2020

Fall/Winter 2020

12-16 Months