

Quality Education Services and Training, (QuEST)

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2022-2023 Environmental Management Plans

The purpose of Environmental Management Plan is to encourage a healthy and safe work environment for all. QuEST will develop Specific, Measurable, Achievable, Relevant and Time Based (SMART) Goals for Green House Gas (GHG) reductions.

These Environmental Management Plans are a new project for QuEST that began in 2023. These Plans are for January 2023 to June 2023, which QuEST Fiscal Year end date. QuEST will continue to review and develop Environmental Management Plans on July 1st, 2023 which is Fiscal Year start date. Environmental Management Plans are a fluid document, that may be revised, based on input from Assembly Program Contract Stakeholder, and may be reviewed on QuEST's internet website at crsquest.org.

Mission Statement:

QuEST is an organization created to provide education, training, and support services to individuals with disabilities (clients). The Board of Directors is made up of individuals residing in local communities in Yuba and Sutter counties. QuEST provides services to ensure that individuals with disabilities have equal opportunities to live, learn, work, and participate in activities, of their choice, within their community. QuEST feels that the extent to such rights is exercised by an individual with disabilities should be determined only by his or her own desires and special needs.

Please review below Components of Environmental Management Plans:

SCOPE 1: DIRECT EMISSIONS FROM EQUIPMENT:

The Components of Scope 1 were developed to include emissions from Forklifts, Generators, Refrigeration, Fire Suppression and Company Cars/Trucks. There are some Components identified in this Scope that do not apply to QuEST. QuEST currently does not maintain Generators or Company Cars/Trucks for Assembly Program Contract.

1. Forklift:

QuEST currently maintains a propane forklift. Propane is not harmful to soil, groundwater, or fresh water. If propane spills or leaks, propane becomes a harmless vapor. Compared to gasoline, propane emits 60% less carbon monoxide. And, it emits nearly 100% less particulate matter than diesel. Propane is a clean burning fuel that is approved by US Energy Administration.

QuEST calculated forklift propane use for January to June 2023, using EPA GHG Emissions Calculator. The total emissions equal 232 CO₂-e (metric tons). There are no accurate comparisons for forklift use due to shifts, hours, and workloads. QuEST work shift is 5.5 hours per day, which may reduce emissions as compared to other warehouses, with three shifts, of eight hours and more demanding workloads. The State of CA has proposed zero emission forklift regulations, to reduce GHG Emissions for all industries.

2. Refrigeration/AC Equipment Used:

QuEST currently maintains refrigerators for staff members and clients' lunches. QuEST currently maintains a small air conditioning unit for staff members offices.

QuEST calculated refrigerator and air conditioning emissions for January to June 2023, using EPA GHG Emission Calculator. The total emissions equal 726 CO₂-e (metric tons). Refrigerators generate an insignificant number of emissions. Air conditioning units generate significant emissions. However, due to QuEST hours of 5.5 per day, and only utilizing air conditioning in summer months, when necessary, this may reduce emissions. Air conditioners to reduce emissions will need to be developed for home and business use.

3. Fire Suppression System

QuEST currently maintains four portable fire extinguishers in warehouse.

QuEST calculated fire suppression system emissions for January to June 2023, using EPA GHG Emission Calculator. The total emissions equal 2 CO₂-e (metric tons) which is an insignificant amount. QuEST warehouse also has a sprinkler system to be used if there is a fire. If there is a fire, safety first, get everyone out safely, and do not worry about using portable fire extinguishers.

SCOPE 2: INDIRECT EMISSIONS FROM PURCHASED ENERGY

The Components of Scope 2 were developed to include indirect emissions from purchased energy, such as Electricity and Natural Gas.

1. Electrical:

The total Kilowatt Hours from monthly Electric Bill, will be compared to Average Electricity Rate in Sutter County which is 876 Kilowatt Hours per month, to determine GHG Emission percentage.

December 27th, 2022 – January 25th, 2023 (30 Billing Days) PG&E Statement Total Usage equals 1,177.171500 KWH. Average Daily Usage = 39.24 Peak Usage = 10.96%. Off Peak = 89.04%. Part Peak and Super Off Peak = 0%.

876.00 KWH Average Monthly Usage divided by 1177.00 KWH Actual Usage divided by = 75%.
QuEST is below Average Monthly Usage by 25%.

January 26th, 2023 – February 26th, 2023 (32 Billing Days) PG&E Total Usage equals 1,185.677000 KWH. Average Daily Usage = 37.05. Peak Usage = 10.09%. Off Peak = 89.91%. Part Peak and Super Off Peak = 0%.

876.00 KWH Average Monthly Usage divided by 1185.00 KWH Actual Usage = 74%.
QuEST is below Average Monthly Usage by 26%.

February 27th, 2023 – March 27th, 2023 (29 Billing Days) PG&E Total Usage equals 1,274.205000 KWH. Average Daily Usage = 43.94. Peak Usage = 9.89%. Off Peak = 42.06%. Part Peak = 0%. Super Off Peak = 48.05%.

876.00 KWH Average Monthly Usage divided by 1274.00 KWH Actual Usage = 69%.
QuEST is below Average Monthly Usage by 31%.

March 28th, 2023 – April 26th, 2023 (30 billing days) PG&E Total Usage equals 1,304.371000 KWH. Average Daily Usage = 43.48. Peak Usage = 10.27%. Off Peak 38.38%. Part Peak = 0%. Super Off Peak = 51.35%.

876.00 KWH Average Monthly Usage divided by 1304.00 KWH Actual Usage = 68%.
QuEST is below Average Monthly Usage by 32%.

April 27th, 2023 – May 25th, 2023 (29 billing days) PG&E Total Usage equals 1,335,8160000 KWH. Average Daily Usage = 46.06. Peak Usage = 8.08%. Off Peak = 38.17%. Part Peak=0%. Super Off Peak = 53.75%.

876.00 KWH Average Monthly Usage divided by 1335.00 Actual Usage = 66%.
QuEST is below Average Monthly Usage by 34%.

May 26th, 2023 – June 26th, 2023 (32 billing days) PG&E Total Usage equals 1,588,393500 KWH. Average Daily Usage = 49.64. Peak Usage = 10.35%. Off Peak = 71.36%. Part Peak = 11.38%. Super Off Peak = 6.91%.

876.00 KWH Average Monthly Usage divided by 1558.00 Actual Usage = 56%.
QuEST is below Average Monthly Usage by 44%.

2. Natural Gas:

The Average Natural Gas Rate in Sutter County is 10,193372 per million of Terms. QuEST currently does not have a monthly PG&E Natural Gas Statement for worksite, so there is no comparative analysis of Usage.

3. Water:

There is No Water data available for Commercial/Industrial customers, in Yuba City. QuEST currently does not have a monthly City of Yuba City Water Statement for worksite, so there is no comparative analysis of Usage.

4. Waste Disposal/Recycling

The total percentage of tons on monthly Recology Dumpster Statement, will be compared to 2019 (most recent) Yuba/Sutter Regional Waste Management Authority for Ostrom Road Facility. The total Instate Tons of trash at Ostrom Road Facility equals 166,569. Total Tons Per Year 166,569 Divided by Twelve (12) Months Per Year = 13,880.75 Tons Per Month.

January 2023 Recology Statement percentage for total tons is 9.75 of CND (CND =Construction Debris). 9.75 divided by 13,880.75 equals 70%.

QuEST is below Average Monthly Usage by 30%.

February 2023 Recology Statement percentage for total tons is 9.44 of CND. 9.44 divided by 13,880.75 equals 68%.

QuEST is below Average Monthly Usage by 32%.

March 2023 Recology Statement percentage for total tons is 12.14 of CND. 12.14 divided by 13,880.75 equals 88%
QuEST is below Average Monthly Usage by 12%.

April 2023 Recology Statement percentage for total tons is 9.42 of CND. 9.42 divided by 13,880.75 equals 68%.
QuEST is below Average Monthly Usage by 32%.

May 2023 Recology Statement percentage for total tons is 8.55 of CND. 8.55 divided by 13,880.75 equals 62%.
QuEST is below Average Monthly Usage by 38%.

June 2023 Recology Statement percentage total tons is 6.76 of CND. 6.76 divided by 13,880.75 equals 48%.
QuEST is below Average Monthly Usage by 52%

SCOPE 3: EMISSIONS FROM SUPPLY CHAIN, EMPLOYEE COMMUTING, TRAVEL (OPTIONAL)

1. Client Commuting:

QuEST clients may choose to walk or ride their bicycle to worksite. If a QuEST client is unable to walk or ride their bicycle, they may choose to utilize public or private transportation. The public and private transportation agencies, "carpool" clients in a van or bus for transportation to worksite. The transportation choice by over 40 clients to walk, ride bicycle, or use public transportation reduces carbon dioxide emissions by 15% every month. (A typical passenger vehicle emits about 4.6 metric tons of carbon dioxide per year. $4.6 \text{ per year} \times 40 \text{ clients} = 184 \text{ metric tons of emissions} / 12 \text{ months} = 15.33\%$).

2. Employee Commuting:

QuEST calculated each employees' emissions for their vehicle, from January to June 2023, using EPA GHG Emission Calculator. The total emissions equal 2 CO₂-e (metric tons), which is an insignificant amount.

Voluntary Reduction Goals:

QuEST based on collection and calculations for Greenhouse Gas Emissions may voluntarily reduce electricity, natural gas, and water consumption.

1. Electricity:

QuEST may install additional high efficiency lighting. QuEST based on monthly electrical bills, and methods implemented, may reduce electric and natural gas usage by 2% or more in 2023-2024. A 2% decrease will lower carbon dioxide emissions.

QuEST may install automatic light and air conditioning/heater shutoff timers. An automatic timer may reduce electricity usage by 5% or more in 2023-2024. A decrease will lower carbon emissions. QuEST may need to adjust shutoff timers. if overtime work is required to meet Assembly Program increased contract demands, due to wildfires or inclement weather.

- ✓ Long Range Goal: QuEST may seek to install solar panels in parking lot, or on roof of warehouse, pending approval from Landlord. Landlord may assist to determine if roof is able to sustain solar panels due to age of roof/warehouse structure. (It is unknown at this time, if installation of solar panels, would be cost effective for QuEST).
- ✓ Long Range Goal: QuEST may seek to replace electrical panels, within warehouse worksite, that may not be energy efficient. QuEST has a quote of \$80,000.00 to replace all electrical panels, which may be done on approval from Board of Directors, based on Financial Statements.

2. Natural Gas

QuEST currently has a water heater that uses Natural Gas. QuEST may seek to install a "tankless" water heater, which is energy efficient, based on approval from Landlord. The energy efficiency from a tankless water heater will decrease natural gas use and carbon emissions. The life expectancy of a tankless water heater is 20 years, which will reduce landfill waste. A tankless water heater may reduce electric and water usage by 20% or less in 2023-2024.

QuEST currently has a gas, Laundry Dryer. QuEST may purchase an energy efficient gas Laundry Dryer to reduce electricity and Green House Gas Emissions. A gas Laundry Dryer may reduce electrical usage by 20% or less in 2023-2024.

3. Water:

QuEST may install low flow toilets and low flow water faucets, based on approval, from Landlord. A low flow water device may reduce number of gallons of water used monthly. A decrease in water usage will assist all Californians, after three years of drought. QuEST may reduce water usage by 5% in 2023-2024.

QuEST may purchase an energy efficient industrial washing machine. An energy efficient washing machine will reduce water usage, electrical usage, and Green House Gas Emissions by 20% or less in 2023-2024.

2022-2023 Environmental Management Plans Accomplished:

Accessibility

There were no Accessibility Barriers on 2022 and 2023 Contract Stakeholder Survey Results.

(No Surveys were returned. If there are no concerns/issues documented then QuEST is meeting contract requirements).

Computers

QuEST purchased new energy efficient computers in January 2022. The computers decrease energy consumption, reduce carbon emissions, and landfill waste.

Electricity

QuEST staff members have installed in 50% of worksite high efficiency lighting. The lights have decreased weekday only electrical usage.

Employment Environment

QuEST will continue Safety Reward Program. QuEST staff members are issued a \$50.00 Safety Reward check, for every 100 consecutive days, without an accident or injury at any program. QuEST staff members received 3 Safety Reward checks in January 2022; May 2022; and September 2022. QuEST had 365 consecutive days (one year) without an accident or injury at any program on July 7th, 2022. QuEST has 540 consecutive days without an accident or injury at any program as of December 30th, 2022. QuEST had 722 consecutive days, without an accident or injury at any program, as of June 30th, 2023 (fiscal year end).

Worksite

QuEST worksite is in an industrial warehouse that was originally Sunsweet Growers Inc. The worksite is an “insulated” building that was previously used to keep fresh fruit products at an “even” temperature, prior to packing and delivery to retail outlets. The insulation in worksite keeps outside temperatures below 85 degrees in summer, with assistance from fans. The insulation retains heat, and assists with keeping cold air out, in winter. The insulation reduces the transmission of thermal energy, within walls and ceilings to create a comfortable space for our workforce, and decreases electricity bills and Green House Gas Emissions.

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