

# Electrification Program Introduction for the Tulare County Regional Transit Agency

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# INTRODUCTIONS



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# THE CHALLENGE!

On June 15, 2021, FTA launched the Sustainable Transit for a Healthy Planet Challenge to encourage transit agencies to build on progress already made and to further reduce GHG emissions from public transportation.

## Challenge Schedule

June 15, 2021 | FTA kicks off Sustainable Transit for a Healthy Planet Challenge

July 30, 2021 | Deadline for transit agencies to sign up for the Challenge

July 2021 – March 2022 | Participate in FTA webinars to learn GHG emission reduction strategies.

April 15, 2022 | Deadline for agencies to submit climate action strategies to FTA

April 22, 2022 | FTA Earth Day event to showcase challenge results and transit agency success stories!!



Federal Transit Administration

# WHO WE ARE

Delivering world-class energy and infrastructure solutions **for State and Local Governments**

# sitealogiq



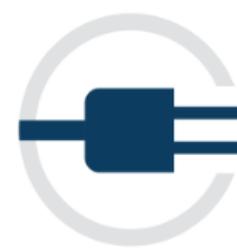
**700+  
Employees**



**11,000  
Customer Sites**



**\$5 Billion  
Constructed**



**\$1 Billion Saved  
in Energy & Ops**



**30+ Regional Offices**

Planners | Engineers | Architects  
Project Managers | Educators  
Certified Energy Managers  
Data Analytics

# WHY WE DO WHAT WE DO!

Through Turnkey Infrastructure Solutions we help you create communities that are,

- **Healthy**
- **Safe**
- **Resilient**
- **Efficient**
- **Smart**
- **Sustainable**



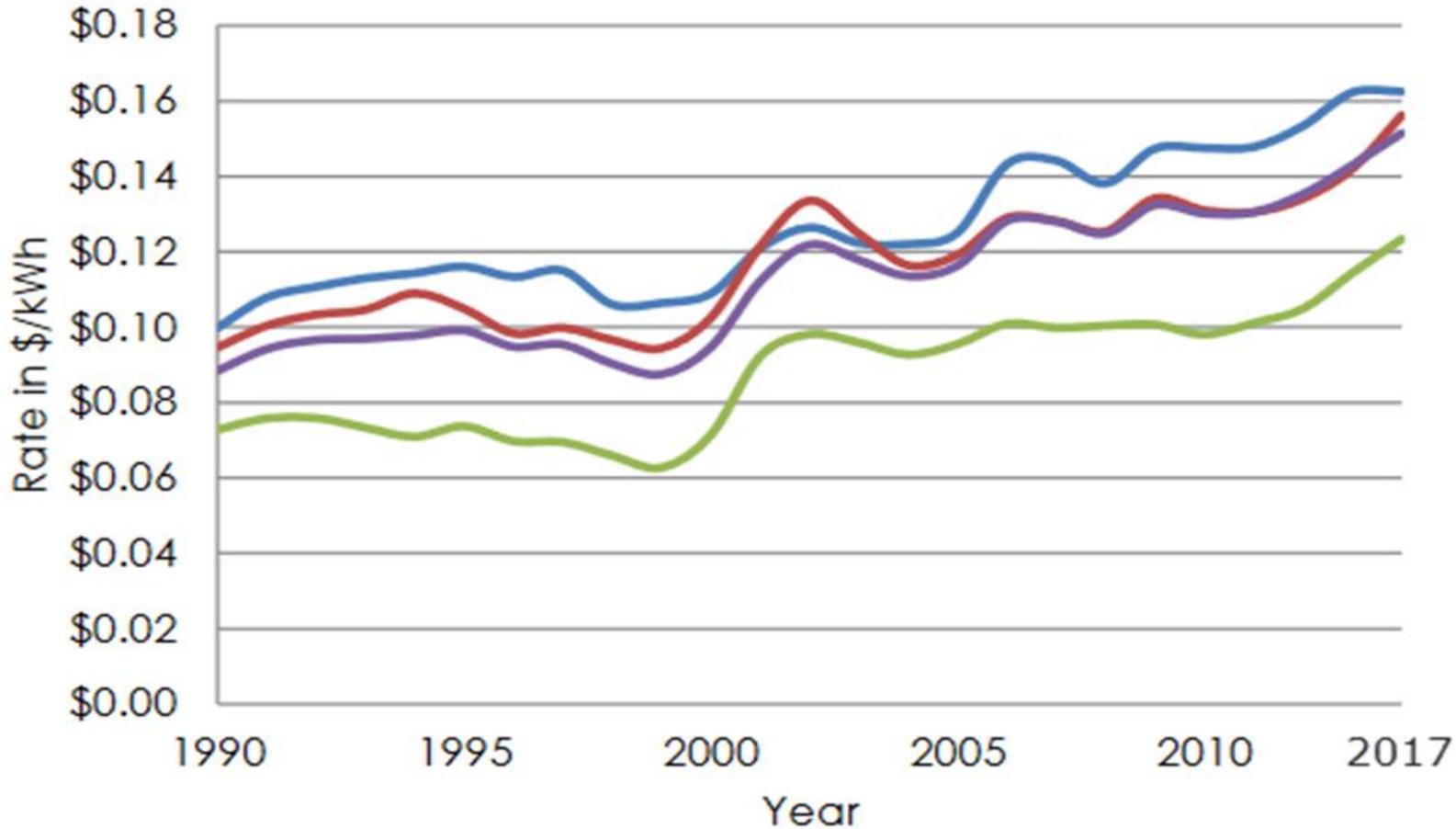
# PROGRAM GOALS

- Design & Build Clean Energy Infrastructure that can support the TCRTA's growing electric bus fleet.
- Develop resilient MicroGrid solutions.
- Provide comprehensive funding options.
- Collaborate with TCRTA in developing and implementing Climate Action Plan for the FTA Challenge.



# (PROBLEM) UTILITY COSTS ON THE RISE

Electric Rate History



California Electric Rates have increased an average of **6%** over the last 35 years per the U.S. Department of Energy (DOE)

- Residential
- Commercial
- Industrial
- All Users

# (PROBLEM) PUBLIC SAFETY POWER SHUTOFFS (PSPS)



1. High Winds
2. High Temperature
3. Low Humidity
4. Power can be shut off for days?

## Proactive Power Shutoffs

One of our preventative measures to help protect against wildfires is **Public Safety Power Shutoff (PSPS)** events. These events may be called during extreme and potentially dangerous weather conditions.

# (SOLUTION) SOLAR + BATTERY STORAGE = MICROGRIDS

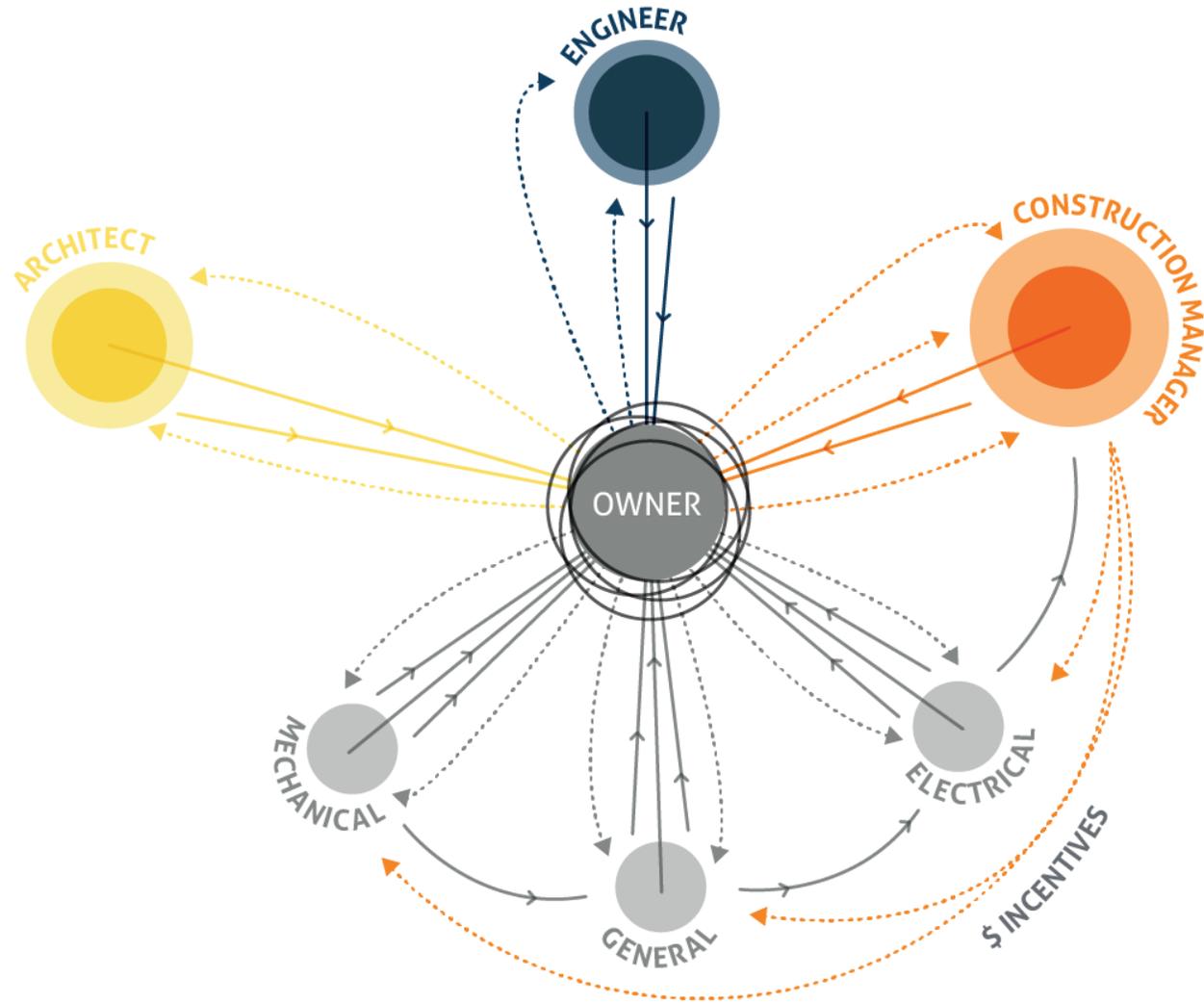
- A microgrid is a localized group of interconnected loads and distributed energy resources (DERs) within clearly defined electrical boundaries (e.g., cities, communities, campuses that act as a single controllable entity with respect to the main regional or national electric grid [macrogrid]). A microgrid can connect or disconnect from the main grid as physical and/or economic conditions dictate. It can operate on both grid-connected mode (synchronous with the grid), or on island mode (functioning autonomously and disconnected from the main electric grid). A typical microgrid layout is shown in Figure 1.

Figure 1: Typical Microgrid Layout



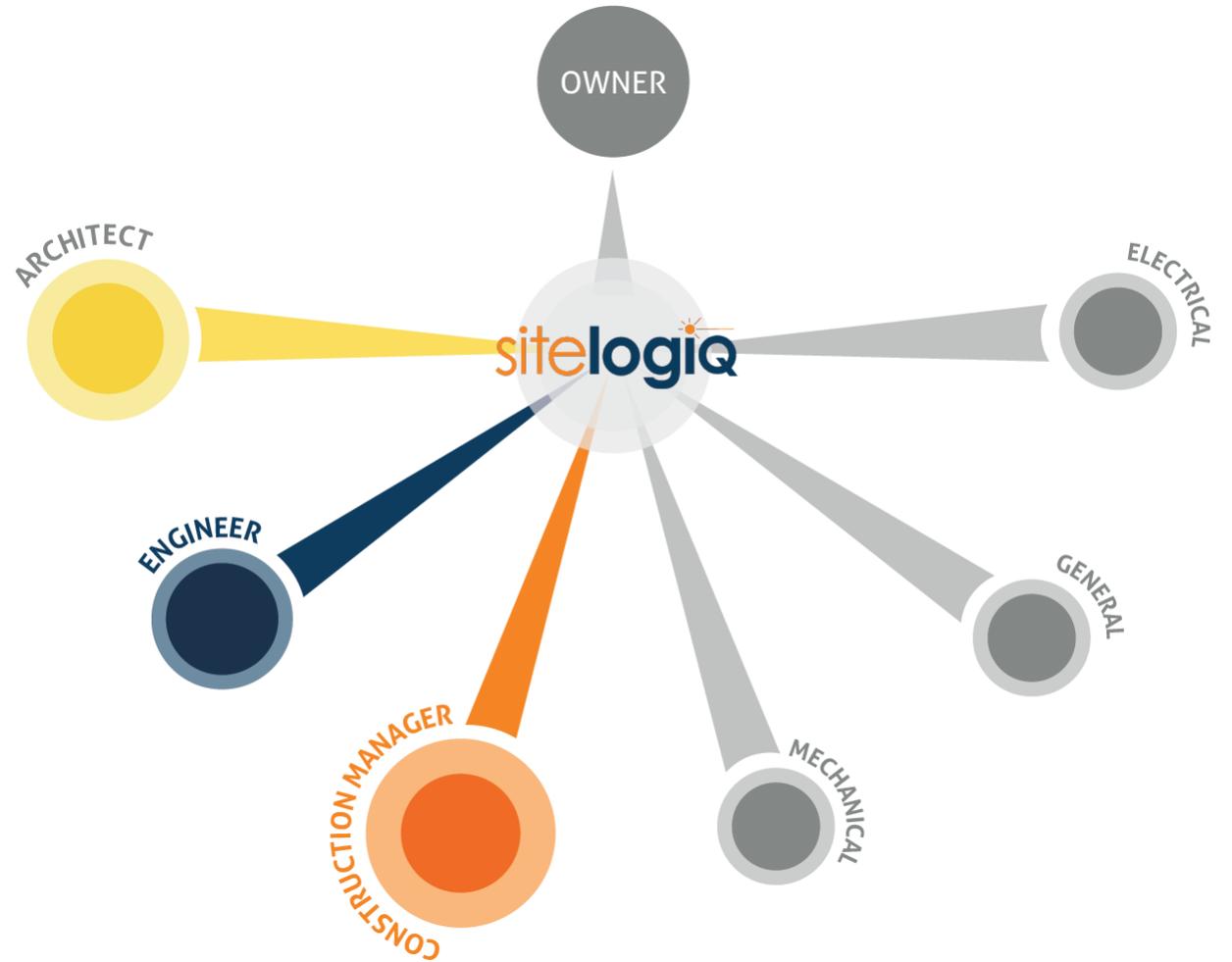
Source: Microgrid Institute. [www.microgridinstitute.org](http://www.microgridinstitute.org). All rights reserved.

# TRADITIONAL CONSTRUCTION



# THE SITELOGIQ APPROACH

Single source of  
**accountability** and  
**responsibility** from  
conception to  
completion



# ENERGY MANAGEMENT SERVICES

## You can't manage what you don't measure.

The first stage in the SiteIQ Plan is to ensure that our clients have clear visibility and understanding of the energy usage data and trends. This vital information allows for management to make informed decisions regarding best practices and the feasibility of future energy strategies for the organization.

Our comprehensive portfolio of Energy Services can help your business identify the most effective ways to reduce energy demand and increase cost savings.

## Our energy solutions include:

- Energy benchmarking
- Historical usage patterns
- General load analysis
- Routine site visits
- Project feasibility assessments
- HVAC scheduling & optimization
- Utility rate analysis & optimization
- Measurement & verification
- Solar verification & performance tracking
- Custom energy dashboards
- EnergyStar certification
- Staff training
- Utility rates, incentive, & rebate program updates



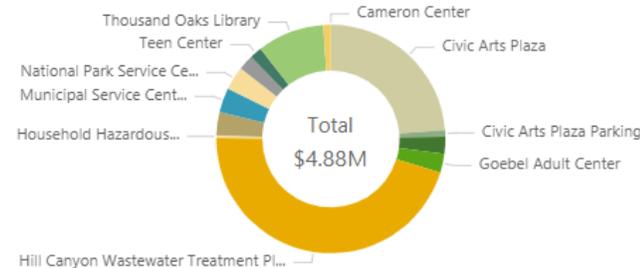
## Electricity Cost Overview

Data Available From: January, 2010 to December, 2020

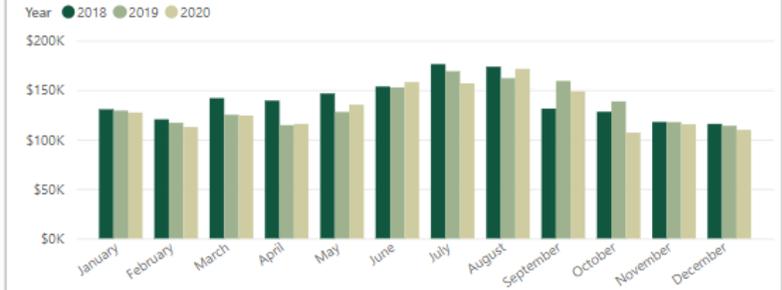
### Year Selection

- 2020
- 2019
- 2018
- 2017
- 2016
- 2015
- 2014
- 2013
- 2012
- 2011

### Electric Cost by Site (\$)



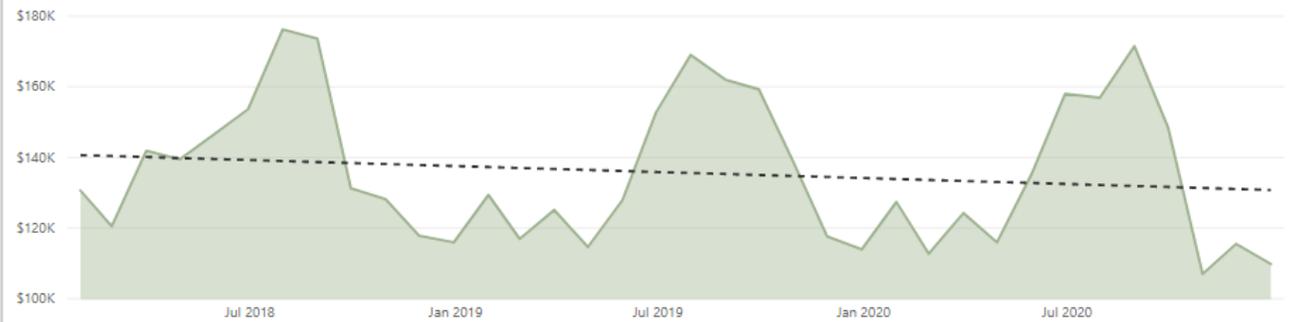
### Electric Cost by Month and Year (\$)



### Annual Electric Cost (\$)



### Electric Cost by Date (\$)



# OUR CALIFORNIA PRESENCE

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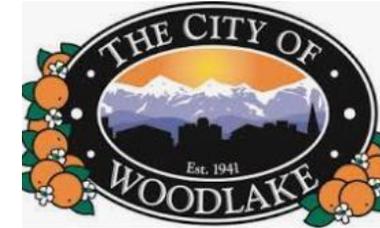
- Our largest client base is in CA
- Offices strategically located throughout the state to provide world class service and response times.
- Staffed by nearly 350 energy professionals, engineers and highly trained installation and service technicians.



# In Construction & In Development

- County of Amador
- County of Mariposa
- County of Madera
- County of Yuba
- City of Indian Wells
- City of Thousand Oaks
- City of Santa Cruz
- City of Oakdale
- City of Riverbank
- City of Parlier
- City of Woodlake
- City of Orange Cove
- City of Dinuba
- Biola Community Services District

# CURRENT & PAST ENERGY CLIENTS



# KEY FEATURES OF WORKING WITH SITELOGIQ

## Manufacturer Agnostic

SitelogIQ does not represent or manufacture any product or equipment. This allows us to provide the “Best Solution” for our clients without trying to force our brand as part of the solution.

## Guaranteed Workmanship & Savings

SitelogIQ delivers a variety of energy solutions. We provide a guarantee on not just the energy savings but the quality of workmanship as well.

## Economic Stimulus

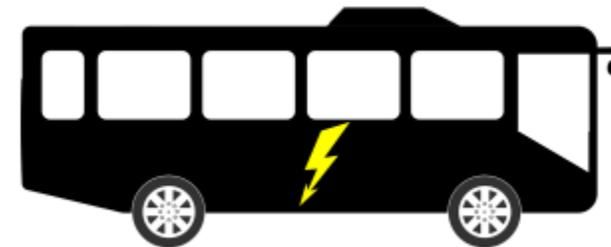
SitelogIQ provides local labor and job creation for all of our clients.

## Financial Solutions

SitelogIQ provides multiple funding options and assistance including low Interest rate Loans, Grants and Utility Incentives.

## Sustainability

SitelogIQ provides environmentally-preferred solutions across all our service offerings that help local governments meet their sustainability goals.



# Questions?

## CONTACT INFORMATION

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