DOCKETED

Docket Number:	16-AFC-01
Project Title:	Stanton Energy Reliability Center
TN #:	217179
Document Title:	Stanton Energy Reliability Center LLC's Presentation for Public Site Visit, Environmental Scoping Mtg. and Informational Hearing
Description:	N/A
Filer:	Marie Fleming
Organization:	DayZen LLC
Submitter Role:	Applicant Representative
Submission Date:	4/19/2017 2:43:15 PM
Docketed Date:	4/19/2017

The Future of Reliability:
Stanton Energy Reliability Center

Public Informational Hearing and Site Visit

April 17, 2017

Stanton Energy Reliability Center – Project Ownership

The Stanton Energy Reliability Center ("SERC") is being developed by SERC, LLC, a joint venture of W Power, LLC and Wellhead Energy, LLC. W Power is the majority owner.

About W Power:

- Founded in 2011, W Power is a California certified woman-and-minority owned business enterprise ("WMBE") focused on doing business in California's energy industry.

- W Power develops, builds, owns and operates community energy reliability centers (CERC). In California, W Power owns one center in Delano. In addition, W Power has developed another center in Tulare.

- W Power believes in building lasting partnerships with the communities we serve. The ultimate result is an environmentally responsible, cost effective and reliable energy future for California. This is critical to California's sustained economic health and maintaining the quality of life that our neighbors enjoy.

Stanton Energy Reliability Center – Project Ownership

About Wellhead:

- Based in Sacramento, CA, Wellhead is a developer, owner and operator of small and medium scale power generation projects. Since 1982, Wellhead has been involved in the development, construction and/or operation of twenty facilities including four combined heat and power (CHP), one landfill gas generation facility, and one solar PV facility. Wellhead and its related companies currently own and/or operate eleven projects totaling approximately 418 MW.

- Wellhead has developed the Hybrid EGT™ and has a patent pending on the technology.

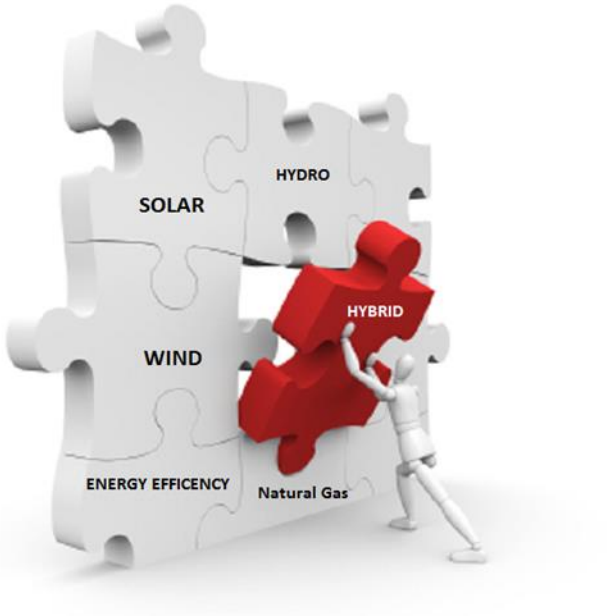
Stanton Energy Reliability Center – Project Description

The Stanton Energy Reliability Center ("SERC") is a state-of-the-art grid stability solution based upon the new General Electric Hybrid EGT™

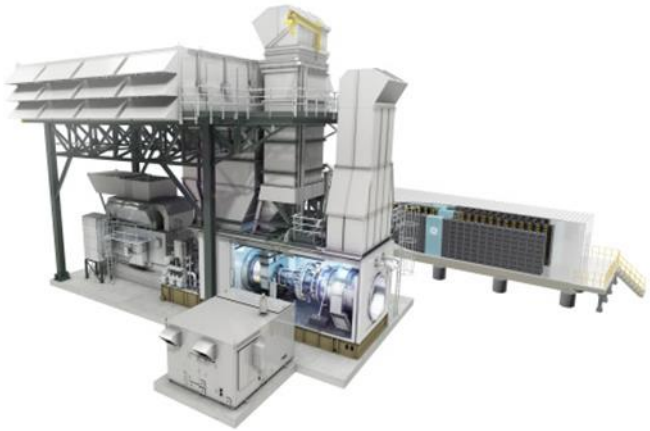
- SERC, as its name implies, was designed from the ground up to be an all-purpose *Energy Reliability* resource. SERC is being permitted to deliver superior reliability services at a low cost and a low emissions profile.

- SERC will consist of 2 Hybrid EGT's™

- Major equipment will include:
  - 20 MW, 10 MWh Battery system
  - Clutches for Synchronous Condensing
  - Two GE LM6000 gas turbines
  - Innovative visual screening
  - EGT Technology is patent pending



Stanton Energy Reliability Center – Project Interconnections – “The Four Legged Stool”



Electrical: The project will interconnect to SCE’s Barre Substation (directly across Dale Ave) via a 0.35 mile long underground generator tie-line that runs from SERC site east to the Barre Substation

Natural Gas: The project will connect via a new 12 inch diameter pipe that will extend 2.75 miles north along Dale Ave to Southern California Gas Company’s Line 1014 in LaPalma Ave

Water/Waste Water:

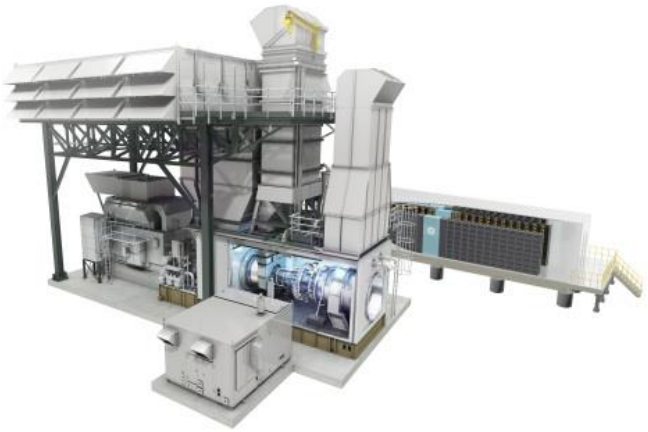
Process and potable water supply from Golden State Water Company via connections immediately adjacent to the site on the east to Dale Ave and on the West to Pacific Street

Waste Water will be discharged to the City of Stanton Sanitary Sewer line in Pacific Street to the west or Dale Avenue to the southeast.

Public/Private Partnership

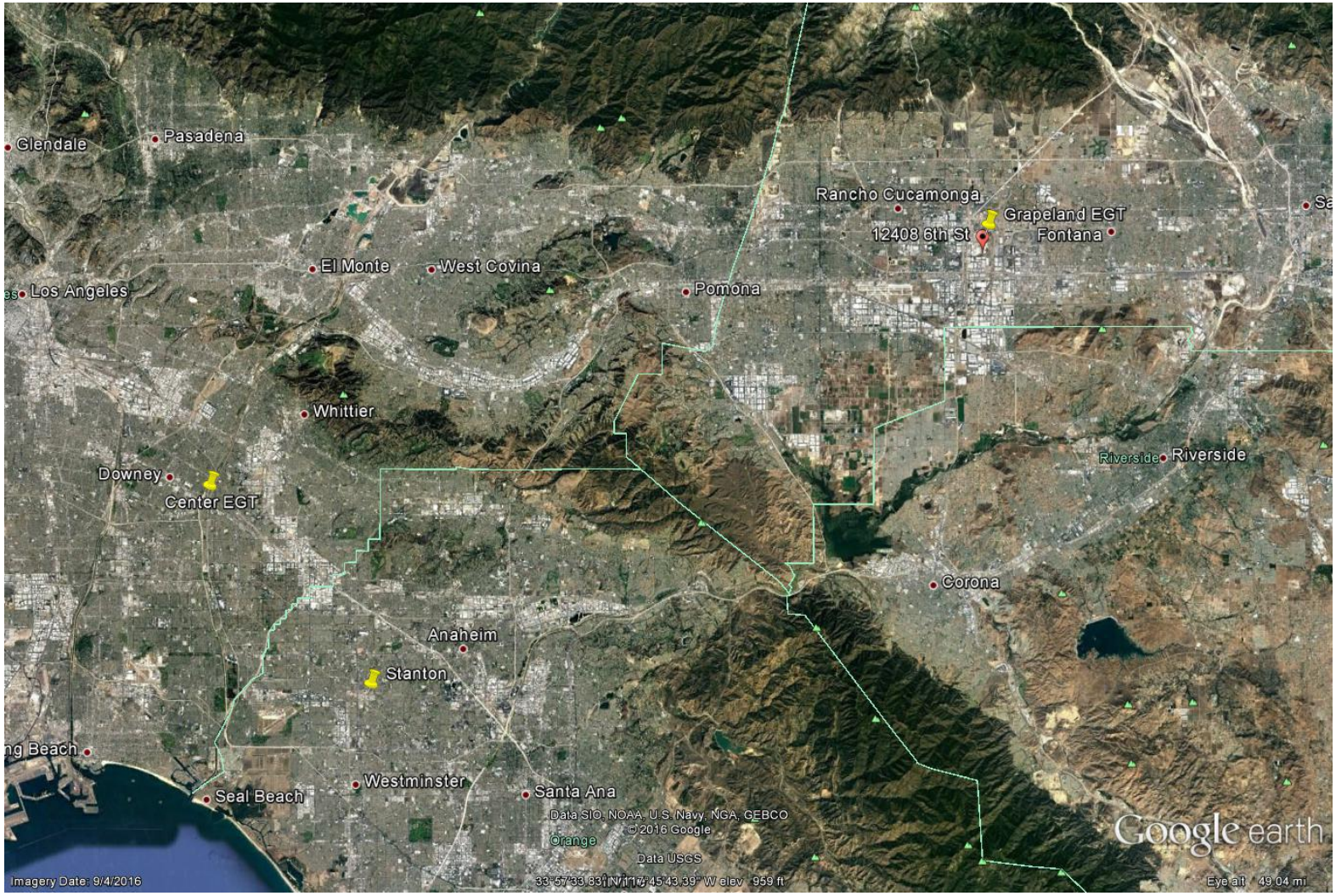
GE LM6000 EGT™ announced on October 4, 2016

- GE Unveils World's First Two Battery Storage & Gas Turbine Hybrids with Southern California Edison
  - Southern California Edison (SCE) converted 2 existing LM6000 peakers into EGT Hybrids in response to California's Aliso Canyon energy emergency
  - Hybrid EGT™ package expected to help SCE's customers save on fuel costs, while reducing natural gas consumption and emissions, plus improving gas turbine start-up time and reliability
  - GE developed the LM6000 Hybrid EGT in collaboration with Wellhead
  - **First two units went commercial in March 2017**
  - **Ribbon cutting was held earlier today!**

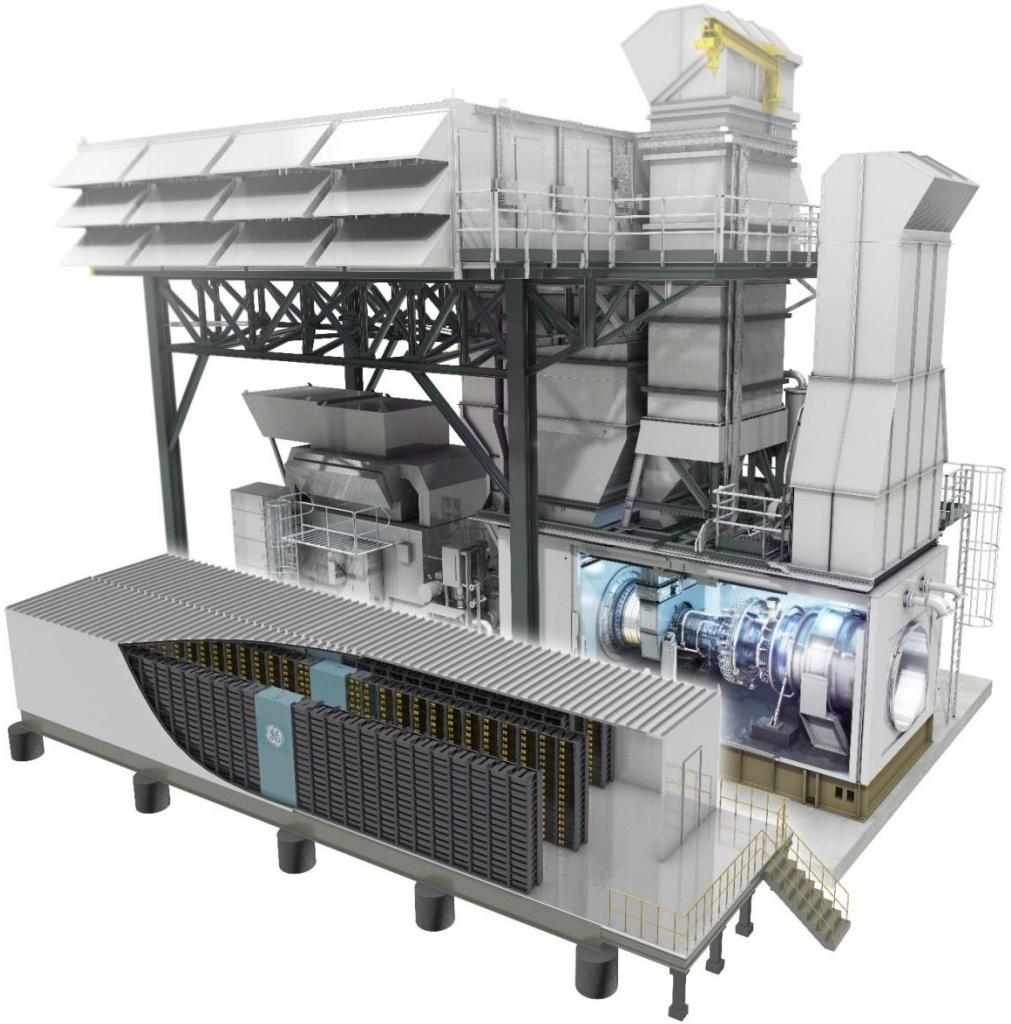


SCE Ribbon Cutting Ceremony Earlier Today!

First Two LM6000 Hybrid EGT's were installed by Wellhead in SCE's Territory:



EGT Hybrid Technology:



EGT Hybrid Technology:

GE Hybrid EGT - Trimmed.mp4

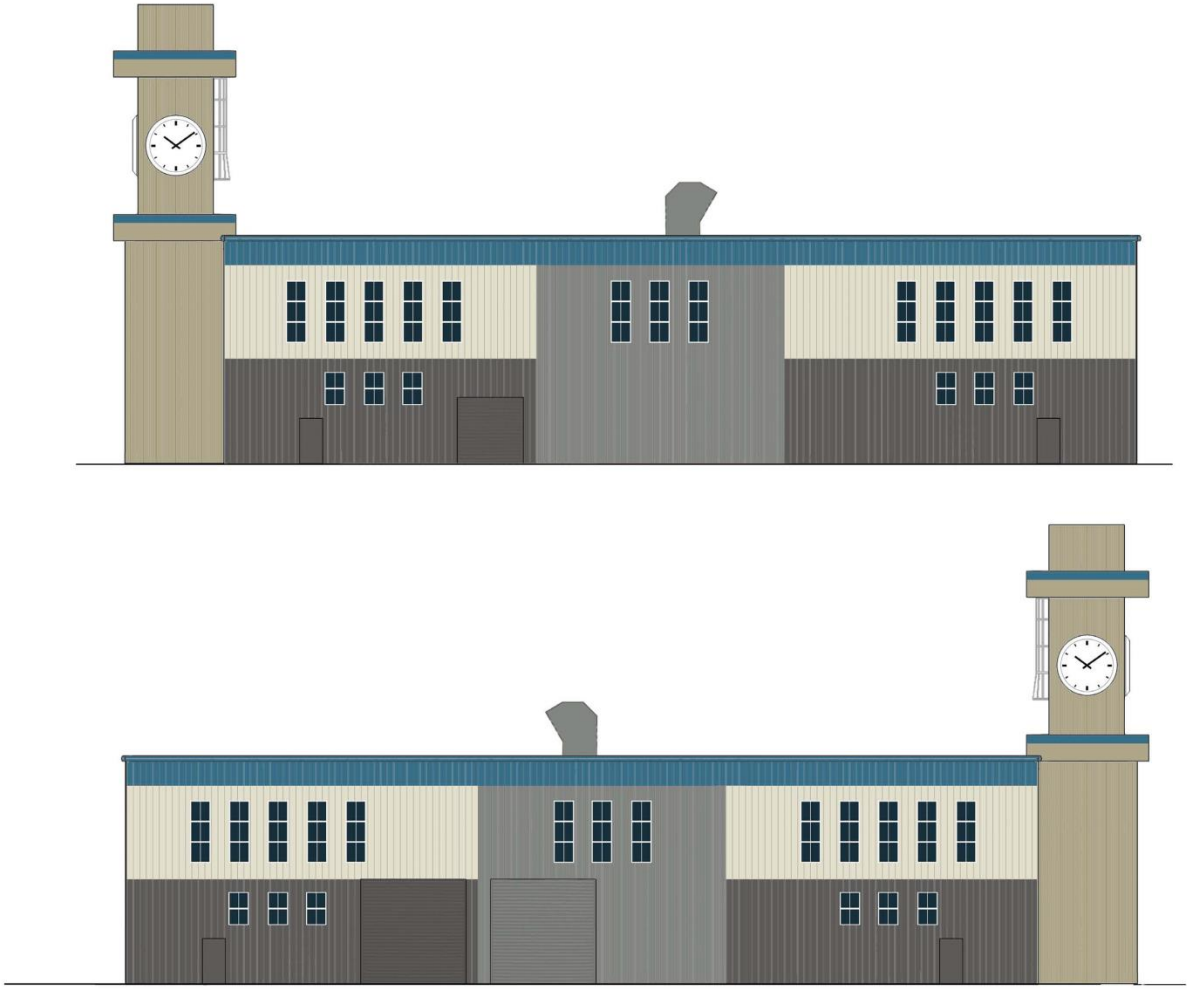
Yesterday's Power Plant

Today's Energy Reliability Center – New Thinking

SERC has incorporated ideas and best practices from:

- W Power
- Wellhead
  - Engineering
  - Operations
- City of Stanton
- Community Members
- General Electric
- Planners
- Architects
- Metal Building Fabricators
- Visual Resources Professionals

Today's Energy Reliability Center



Visual Simulation – Dale Ave looking North – Before SERC

Visual Simulation – Dale Ave looking North – After SERC

Visual Simulation – Dale Ave looking South – Before SERC

Visual Simulation – Dale Ave looking South – After SERC

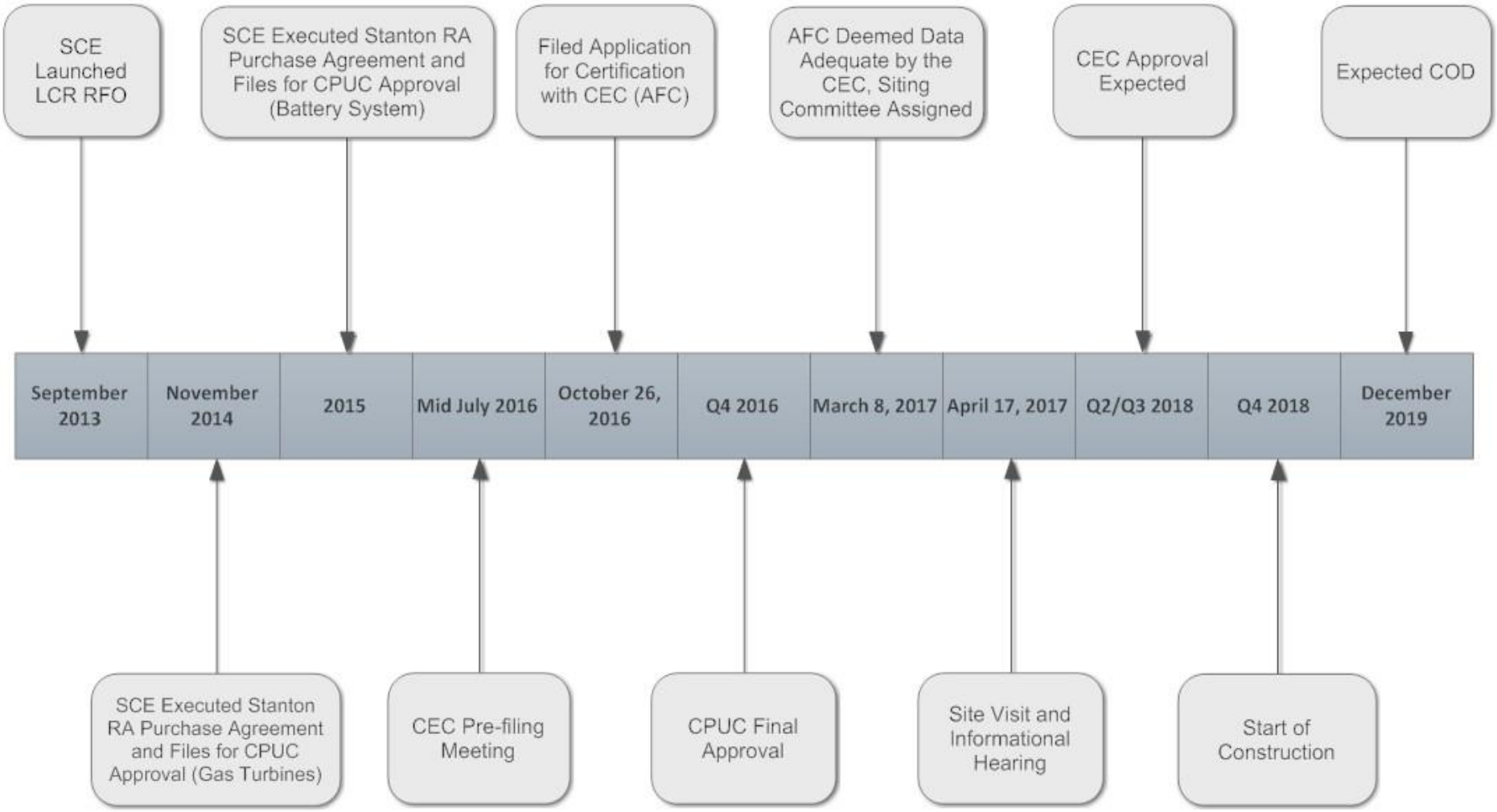
Stanton Energy Reliability Center - Project Benefits

- Enhances local area electric reliability
- State-of-the-art Technology that:
  - Enables greater amounts of renewable energy
  - Reduces Greenhouse Gas Emissions
  - Provides reliability and grid stability to SCE's Customers
- High property tax density utilization of a limited-use parcel
- Project will not tax or place undue burdens on Stanton's public services
- Aesthetically pleasing design
- Creates sustainable funding source for Stanton Central Park maintenance
- Numerous Economic Benefits

Stanton Energy Reliability Center - Projected Economic Benefits

- $12.4 Million construction payroll
- Roughly $2.5 Million in supplies purchased locally
- 80% of workers will be from the local area
- Roughly $2 Million in local sales and use taxes
- 12-month construction schedule with an average workforce of 48 workers and a peak of 78 workers
- New plant will generate approximately $ 1.4 million per year in property taxes
- Creates a sustainable source of funding for Stanton Central Park maintenance

Stanton Energy Reliability Center – Expected Project Timeline and Milestones



CEC Process is VERY Public

The Application For Certification can be viewed at:
https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=16-AFC-01

The Proceeding through the CEC can be viewed at:
http://www.energy.ca.gov/sitingcases/stanton/