

**Texas Commission on Environmental Quality  
New Technology Implementation Grant (NTIG) Program**

**Implementation Phase Quarterly Project Status Report**

<b>Contract Number:</b>	582-17-70806-2569		
<b>Application Number:</b>	2016-08-0002-NG		
<b>Grantee:</b>	The City of San Antonio, acting by and through City Public Service Board (CPS Energy)		
<b>Physical Address of Project:</b>	9800 W. Commerce Street, San Antonio, Texas 78227		
<b>Report for the Quarterly period:</b>	July 1, 2018 to September 30, 2018	<b>Date Submitted:</b>	October 9, 2018
<b>Authorized Official/Project Representative Name:</b>	David Jungman		
<b>Authorized Official/Project Representative Contact Details:</b>	Email Address: DCJungman@cpsenergy.com	Phone Number: 210-353-4861	
<b>Project Summary:</b> (150 word max)	The CPS Energy Solar + Storage project integrates a 5 MW / 10 MWh lithium-ion battery energy storage system (BESS) with a 5 MW solar Photovoltaic array in Bexar County, Texas. The project has a twenty-year life and will be constructed near the Southwest Research Institute on West Commerce Street in San Antonio. The project will showcase a cost-effective and scalable method to achieve reduced emissions, while providing economic and operational benefits to the community, CPS Energy customers and the ERCOT grid.		

**Section I. Accomplishments**

*Provide a bulleted list of project accomplishments since the last report and identify the corresponding task (if applicable).*

- **Tree Permit Renewal:** CPS Energy renewed the tree permit with City of San Antonio and has obtained bids for tree removal (Task 3).
- **Preliminary Engineering Design:** CPS Energy has received preliminary engineering designs for the BESS from the Contractor for review (Task 3).
- **POI Design Requirement Finalized.** CPS Energy has finalized the point of interconnection location and routing for the solar PV and battery energy storage system (Task 3).



List any invoices being submitted for reimbursement in reference to the project accomplishments listed above: (Add rows as necessary.)

- No invoices have been submitted during Q3/2018.

## Section II. Problems/Solutions

*Problem(s) Identified: Report anticipated or unanticipated problem(s) encountered and their effect on the progress of the project.*

- A. The project site has an abandoned gas line that intersects the property that may cause construction implications if the interfere with solar piles.
- B. Current design (inverter type) limits the amount of changes possible to solar layout to mitigate tree removal.

*Proposed Solution(s): Report any possible solution(s) to the problem(s) identified above.*

- A. Investigate engineering design and removal options.
- B. String inverters can be used instead of central inverters.

*Action(s) Conducted: Describe the action(s) taken to resolve the problem(s) identified above.*

- Technical due diligence is being performed to evaluate proposed options.
- Weekly technical meets are held to maintain progress.

*Describe results of these actions identified above.*

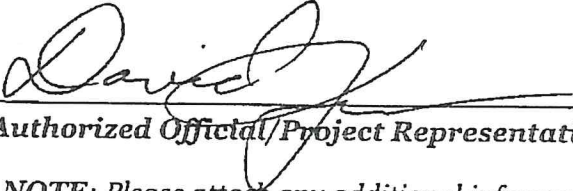
- CPS Energy and the Contractor are completing project milestones.

## Section III. Goals and Issues for Upcoming Period

*Provide a brief description of the goal(s) you hope to realize in the coming period and identify any notable challenges that can be foreseen:*

- **Stormwater Management Plan.** Both CPS Energy and the Contractor will submit storm water plans for City of San Antonio review (Task 2).
- **Tree Clearing.** A Contractor will perform tree removal (Task 3).
- **Secure Permits:** Selected vendor will obtain any remaining city and county permits to perform site preparation and BESS installation (Task 2).
- **Project Engineering Review:** CPS Energy will review preliminary electrical and civil engineering design packages from the vendor. Revisions will be made as necessary to account for existing and encountered site conditions.
- **Additional Engineering Design Optimization.** Engineering revisions will be made as needed to account for existing and encountered site conditions (Task 3).
- **Equipment Procurement:** Long-lead items will be ordered to ensure timely arrival for project installation (Task 2).

- **Groundbreaking Ceremony:** CPS Energy will host a public groundbreaking ceremony on October 8, 2018.
- **Site Preparation:** The Contractor will begin to prepare the site for the construction and installation of the Solar PV, BESS and interconnection equipment. (Task 3). This task is dependent on timely completion of the engineering design and review process.
- **ERCOT Interconnection Application:** CPS Energy looks to complete the interconnection application process with the grid operator - Electric Reliability Council of Texas (ERCOT) for the BESS (Task 4).
- **CPS Energy Interconnection Application:** CPS Energy will support the selected vendor to complete the CPS Energy interconnection application process (Task 2).

  
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 Authorized Official/Project Representative's Signature

10/8/18  
 \_\_\_\_\_  
 Date

*NOTE: Please attach any additional information that you feel should be a part of your report or that may be required to meet the deliverable requirements for tasks completed during this reporting period.*

This form may be submitted via e-mail to your Grant Coordinator or a paper copy may be sent to the following address:

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 Air Quality Division  
 Implementation Grants Section (NTIG), MC-204  
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