



**File No. 2021-0351**

**January 11, 2022**

**SOLAR POWER PURCHASE AGREEMENT AT TENTH AVENUE MARINE TERMINAL  
(TAMT) TO SUPPORT THE MICROGRID INFRASTRUCTURE PROJECT**

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# Purpose

- Overview:
  - Microgrid Infrastructure Project
  - Solar Power Purchase Agreement
- Government Code Section 4217.10, *et seq.*
- Recommendations
  - A. Adopt a Resolution making findings of energy savings from the installation of the 700-kilowatt Solar Photovoltaic System under a Solar Power Purchase Agreement at Tenth Avenue Marine Terminal Project under California Government Code Sections 4217.10, *et seq.*
  - B. Adopt an Ordinance awarding a Power Purchase Agreement to EDF Renewables Distributed Solutions, Inc. for the 700-kilowatt Solar Photovoltaic System on the Warehouse B Roof at TAMT under a 20-year term.
  - C. Adopt a Resolution approving Change Order No. 2 for contract time extension of 214 days for Contract No. 20-06, Microgrid Infrastructure at Tenth Avenue Marine Terminal Project, to align project completion with the Power Purchase Agreement deliverables, with no increase to the grant funded Board approved project budget, pursuant to BPC Policy No.110

# Microgrid Infrastructure Project

## Background

- CEC funding \$4,985,272
- Installation of a microgrid controller, battery energy storage system (700 kW / 2,400 kWh), supporting electrical infrastructure, and security / safety features.
- Solar to be installed as part of District Match funds under a Power Purchase Agreement (PPA) (Agreement called an “Energy Services Agreement”).



# Microgrid Infrastructure Project Goals

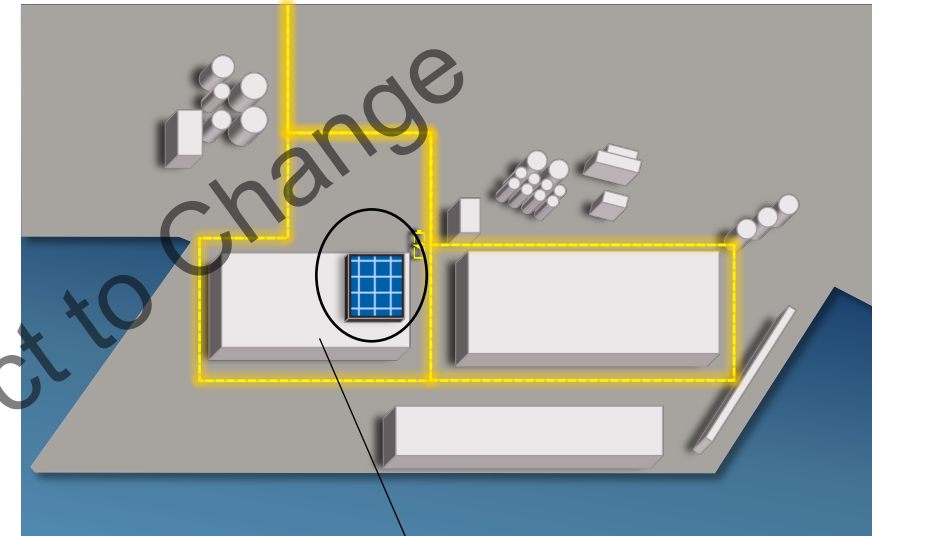
## Role of Resiliency – Strategic Port and Maritime Clean Air Strategy Alignment



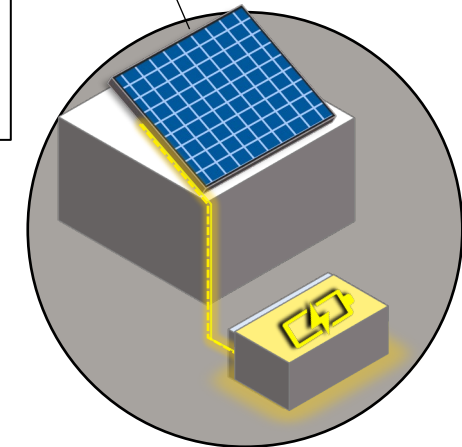
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# Solar Power Purchase Agreement

- Cost effective solution
- 20-year Solar PPA at \$0.109/kWh is far less than the average \$0.24/kWh electricity from the grid
- EDF is responsible for design, construction, operations, and maintenance of the system over the 20-year term
- Buy-out options
- The Microgrid System reduces the District's greenhouse gas emissions



700-kW  
Solar PV  
Array



Battery Energy  
Storage System /  
Electrical  
Infrastructure



# Government Code Section 4217.10, *et seq.*

Government Code Section 4217.10, *et seq.* authorizes use of any solicitation process including a Request for Proposal process based on best value to procure energy services projects.

- A public agency may enter into an energy service contract if the governing body determines the following:
  - The project/energy services contract is in the best interests of the public agency; and
  - The anticipated cost to the public agency for the energy facility under the contract will be less than the anticipated cost to the public agency of energy that would have been consumed by the public agency in the absence of the project/facility.
- The determination must be made at a regularly scheduled public hearing with public notice of which is given at least two weeks in advance.

# Project Timeline and Solicitation Process



- The selection panel included District staff and representatives from Burns & McDonnell, University of California San Diego, and the Electric Power Research Institute.
- EDF was the highest ranked proposal:
  - Comprehensive and flexible technical approach;
  - Highly proficient with the interconnection process; and
  - Offered the best solution for the Solar PPA with reasonable and fair cost.

# Energy Savings – Findings Report

**The Findings Report concluded that the Microgrid System, as a result of the PPA energy cost savings, would result in an overall savings (from assumed electricity bills) of approximately \$3,799,817 over the 20-year term of the PPA.**

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# Recommendations

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