



# **Item 6: Deployment of Decarbonization Technologies and Strategies for California Industrial Facilities (INDIGO Program) – GFO-23-313**

November 13, 2024 Business Meeting

Paty De La Torre, PhD, Industrial Decarbonization Specialist  
Energy Research and Development Division  
Industry & Carbon Management Branch



# Solicitation Overview

- GFO-23-313: Deployment of Decarbonization Technologies and Strategies for California Industrial Facilities (INDIGO Program)
  - Established by Assembly Bill 209
  - Targets projects at Technology Readiness Level (TRL) 8 or greater
  - Promotes electrification, replicability at other industrial facilities
- Project Funding:
  - 3 Projects
  - \$20.5M with \$23.2M in private match funding



# Benefits to Californians

- Enhance electrification and grid support
- Reduce GHG emissions and fossil fuel use
- Implement water reuse/savings
- Improve air quality for justice communities
- Support decarbonization goals for industrial sector



Source: EnergyMonitor.ai website



Source: Northmore Gordon website



# Item 6a: Searles Valley Minerals

- Location: Mining facility in Trona, CA
- Project Focus:
  - Electrify turbines with onsite solar generation and battery energy storage
  - Reduce coal and gas usage, implement demand response
- Impacts:
  - >100,000 metric tons CO<sub>2</sub>/year
  - >800 tons NO<sub>x</sub>/year
  - 10M gallons water/year



Source: ipernity: Trona CA Searles Valley Minerals (0616) - by Don Barrett



# Item 6b: Renewable Technology Developments Inc.

- Location: Industrial laundry facility in Patterson
- Project Focus:
  - Replace fossil gas boilers with steam generating heat pump + onsite solar generation
  - Eliminate gas use, improve air quality
- Impacts:
  - 1,200 metric tons CO<sub>2</sub>/year
  - >2 tons NO<sub>x</sub>/year
  - 14M gallons water/year



Source: Sustainable Process Heat



# Item 6c: Hilmar Cheese Company

- Location: Industrial dairy processing facility in Hilmar
- Project Focus:
  - Electrify dairy product processes with high pressure reverse osmosis and industrial heat pump
  - Reduce gas and electric usage
- Impacts:
  - 1,600 metric tons CO<sub>2</sub>/year
  - >2 tons NO<sub>x</sub>/year
  - 7M gallons water/year



Source: Tetra Pak Reverse Osmosis system



# Staff Recommendation

---

- Approve the three grant agreements
- Adopt staff's determination that these actions are exempt from CEQA