



# Energy Resilience

Information Item

Presented by:  
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Committee  
October 11, 2023



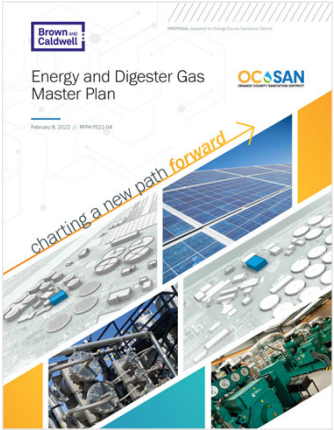
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## Energy & Digester Gas Master Plan

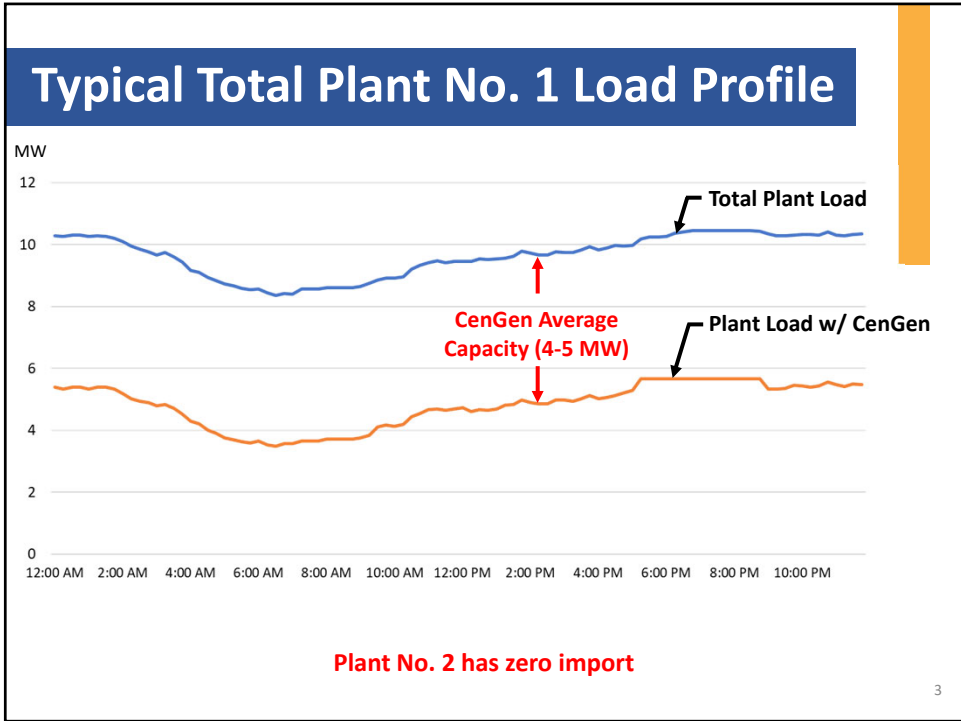
Planning Study for the long-term roadmap of biogas usage and power needs

- Standby Power Policy
- Future CenGen Replacement
- **Energy Resiliency and Independence**

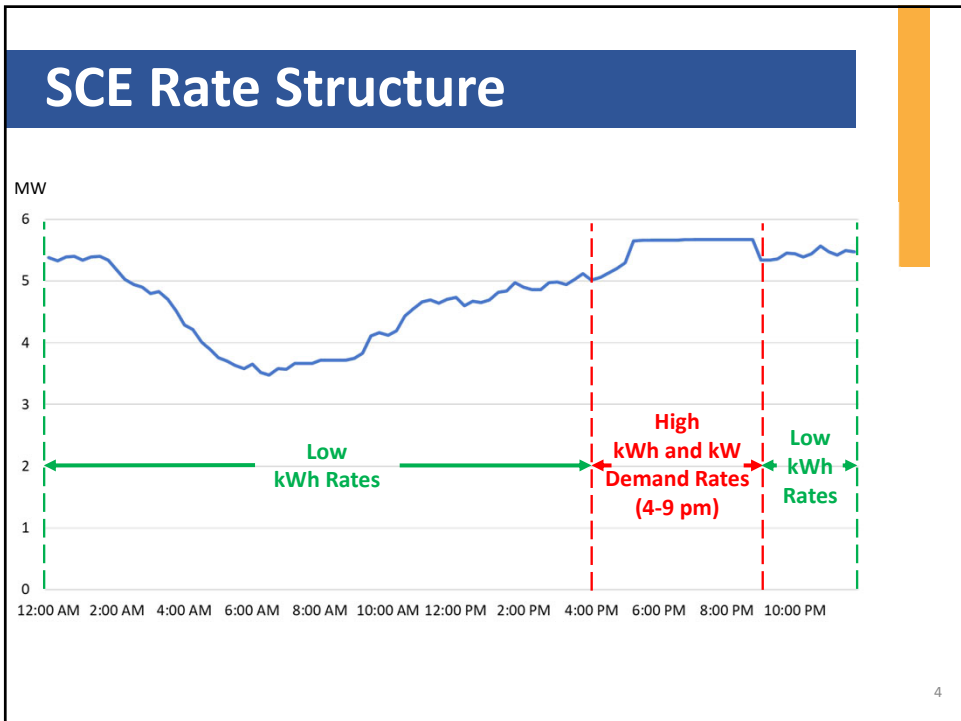
**GM Work Plan Goal**  
Investigate energy storage options to build resilience and offer potential cost savings



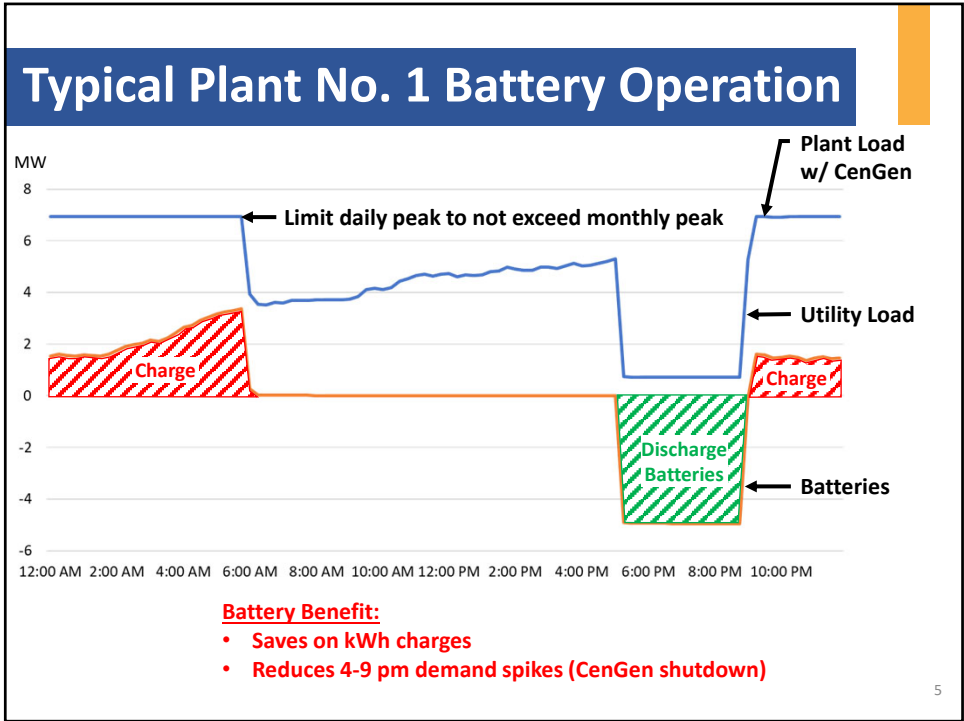
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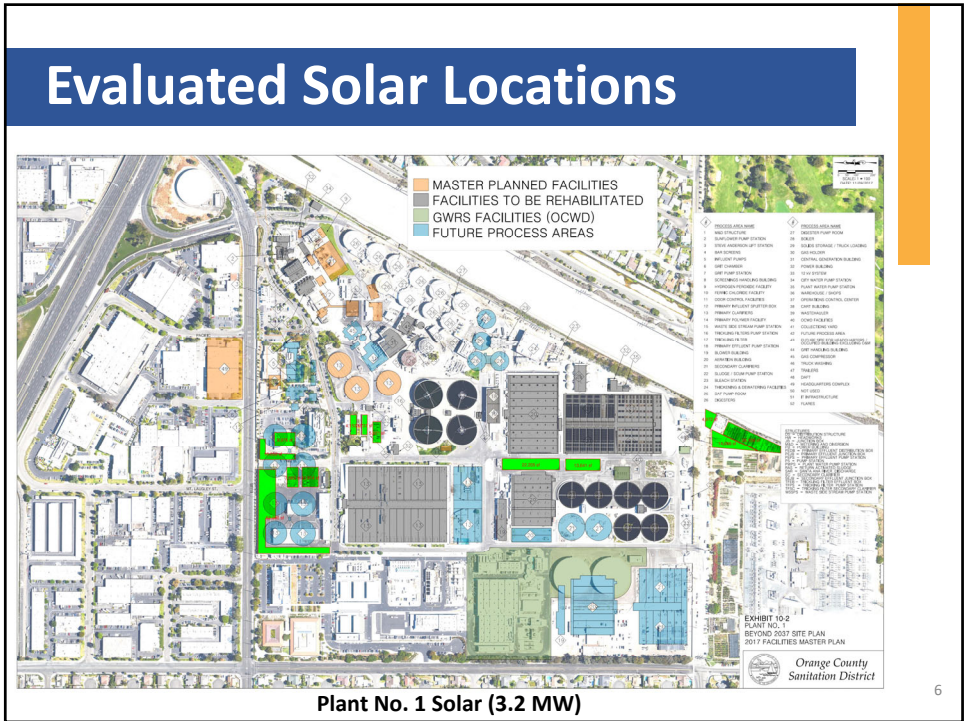
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## 2022 Selected for Direct Access

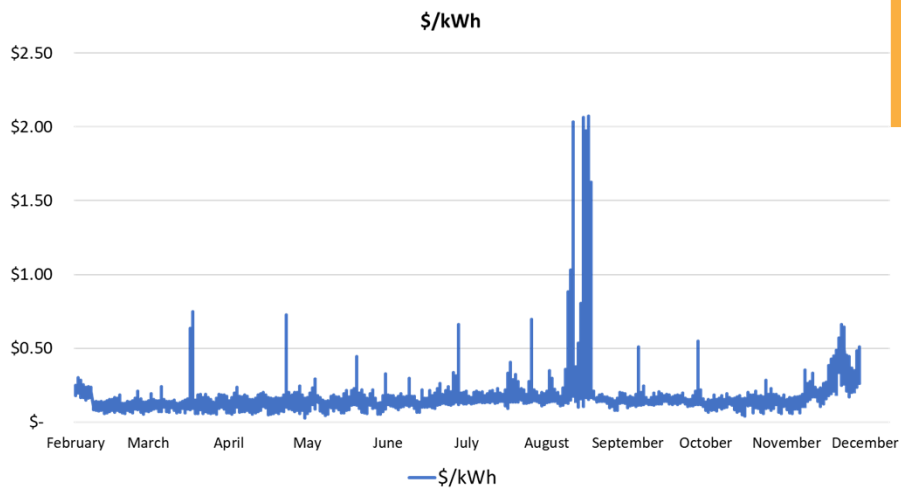
- February 2022 to May 2023
  - 15-Minute Market Rate (Shell)
  - No SCE Generation Demand Charge (4-9 pm)
- May 2023: Locked in a 5-Year Rate
  - \$0.15/kWh effective rate
    - SCE delivery (\$0.03/kWh) (varies with tariff)
    - Direct Access energy (\$0.12/kWh) (Constellation)
  - No SCE Generation Demand Charge (4-9 pm)

**Less benefit having batteries with new direct access rate**

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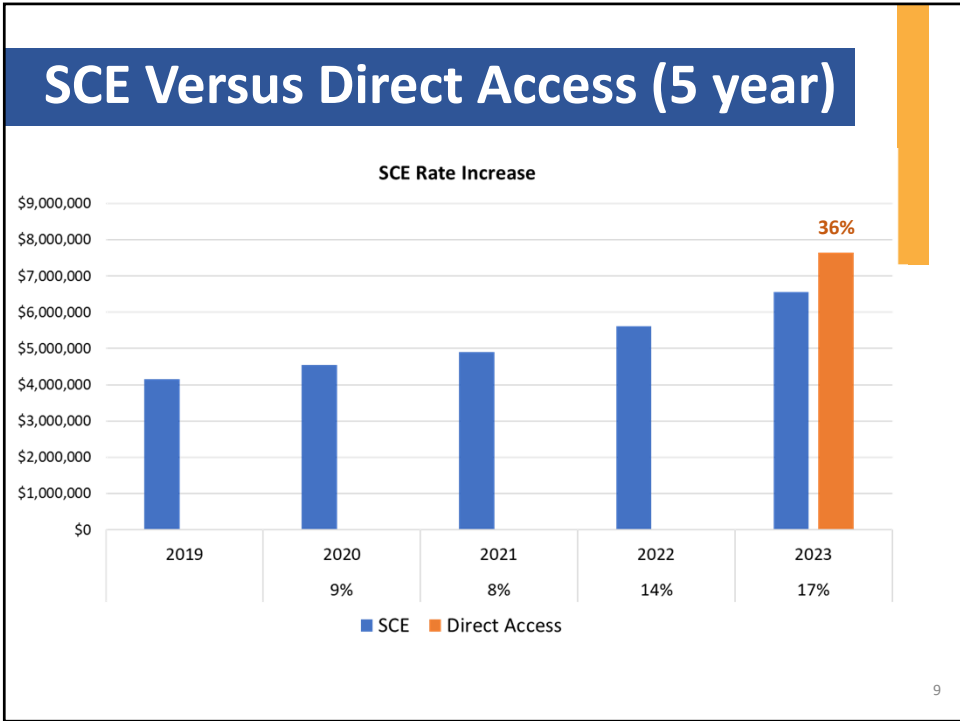
## 2022 Direct Access Volatility



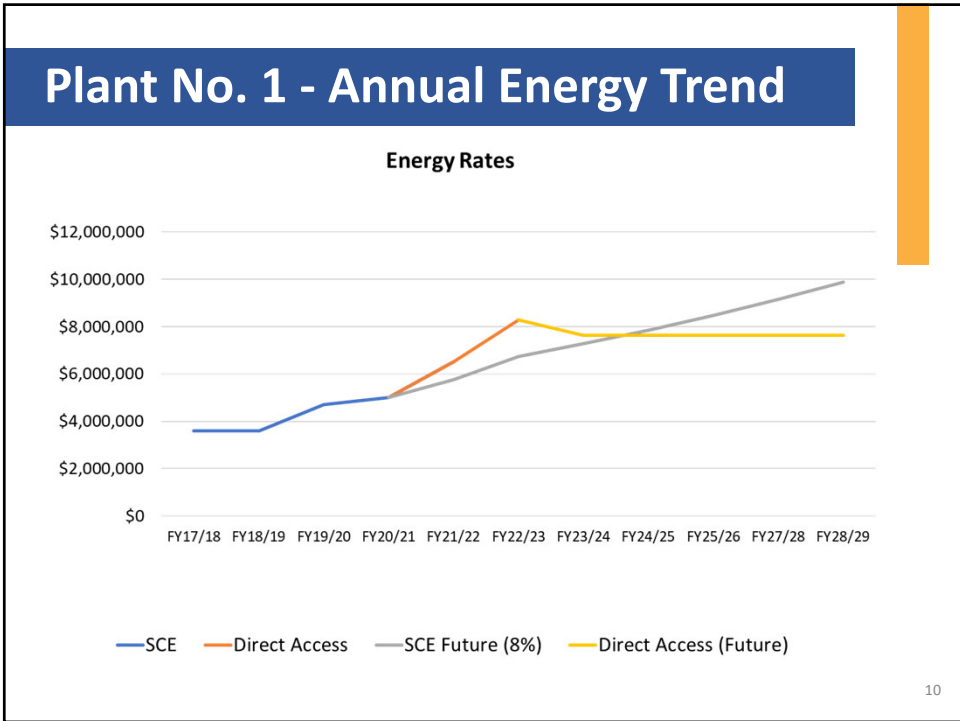
**Lowest daily rates fluctuation between 10¢ to 20¢ (includes 3¢ SCE delivery charge)**

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## Plant No. 1 Solar/Battery Alternatives

Alternatives	Capacity	Cost	Payback	Payback*
Solar	3.2 MW	\$ 12.7M	18 years	13 years
Batteries	27.7 MWh	\$ 14.5M	>50 years	>50 years
Solar + Batteries	26.0 MWh	\$ 13.4M	32 years	23 years

\* Includes Inflation Reduction Act (IRA) funding and represents best case scenario for payback

Payback based on 3.5% utility rate increases

### Conclusions

- Direct Access limits opportunities for savings
- Batteries are not cost competitive under Direct Access
- Solar has a long payback period

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## Questions



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