



Item 4: STEP Division Efforts to Optimize Performance of Jurisdictional Facilities During Summer 2023

December 13, 2023 Business Meeting

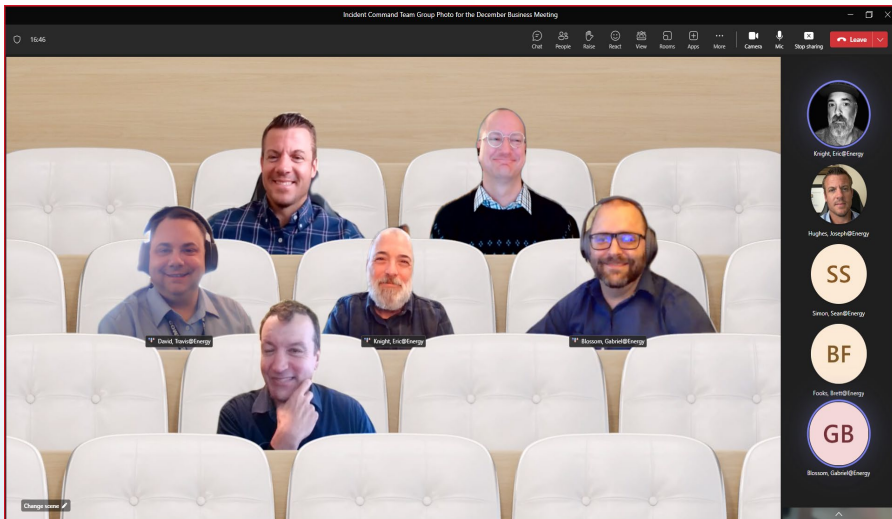
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Siting, Transmission, and Environmental Protection Division



Incident Command Team



- Communicate with facilities
- Manage Outage Tracker
- Analyze curtailments and 7-day weather forecasts
- Process software and hardware efficiency upgrades









Jurisdictional Fleet



76 Operating CEC Jurisdictional Power Plants
27,232 MW Nominal Capacity

-  **Geothermal**
8 plants, 875 MW Nominal Capacity
-  **Natural Gas**
62 plants, 24,721 MW Nominal Capacity
-  **Natural Gas/Pilot Diesel**
1 plant, 167 MW Nominal Capacity
-  **Solar**
5 plants, 1,469 MW Nominal Capacity

Balancing Authority

-  Balancing Authority of Northern California
-  California Independent System Operator
-  Imperial Irrigation District
-  Los Angeles Department of Water and Power
-  NV Energy
-  PacifiCorp West
-  Turlock Irrigation District
-  Western Area Power Administration
-  Lower Colorado Region



Outages vs Age of Power Plant

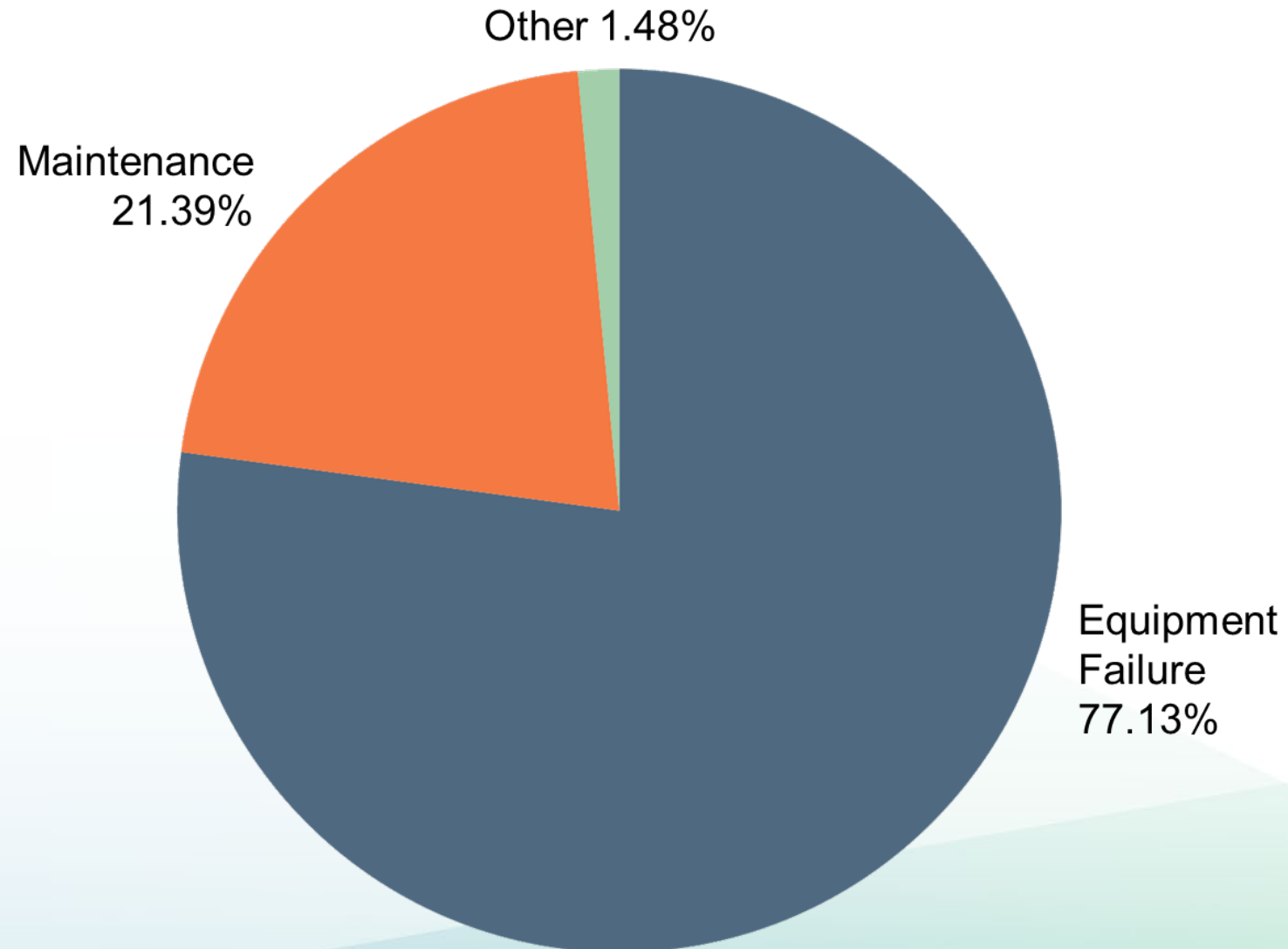
Forced outage data specific to 50 MW and at least 24 hours from when they came online



Staff concludes that with regular maintenance, there is little correlation between the age of a power plant and the number of outages.



Outages or Curtailments Reported to CEC Staff in 2023





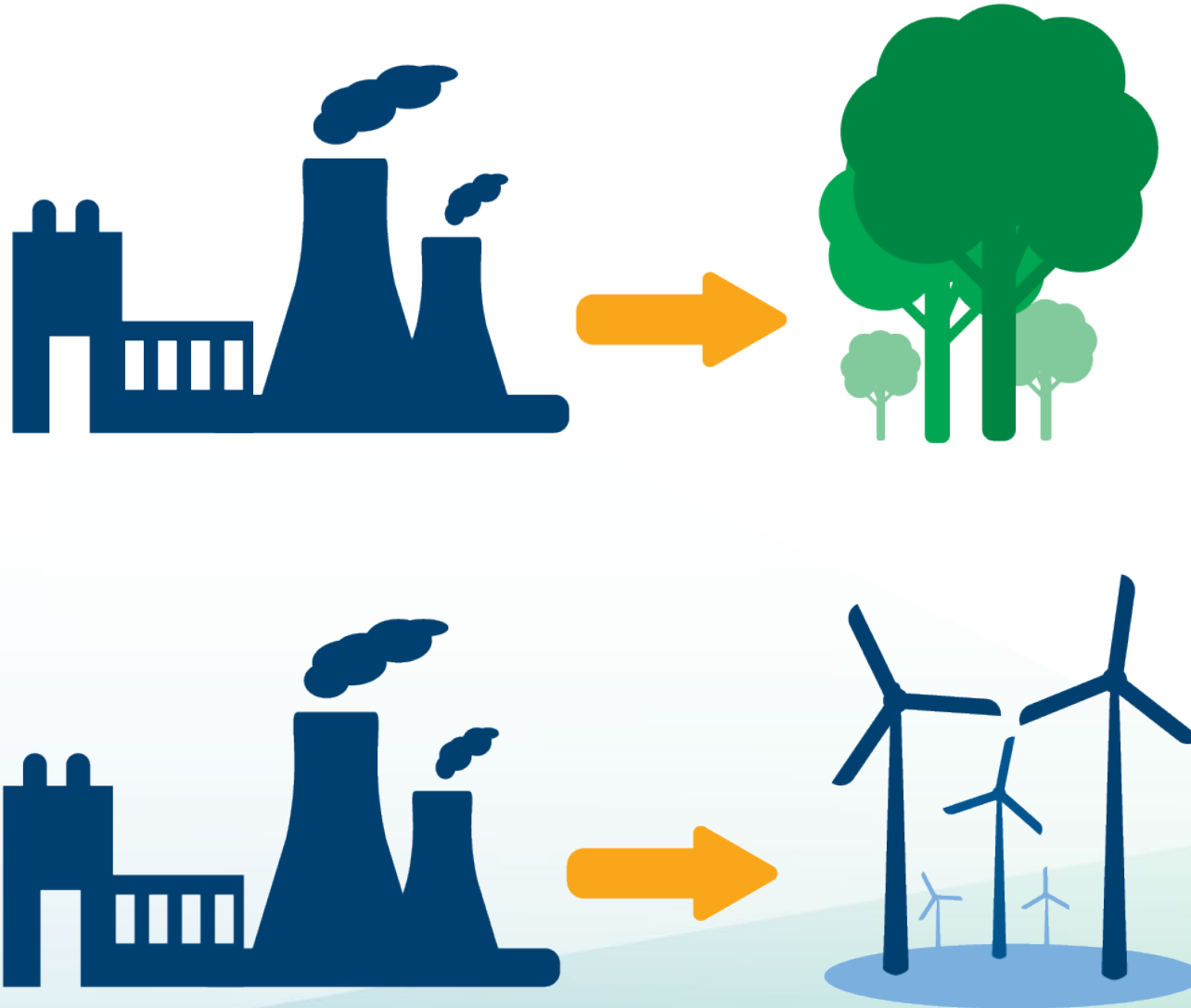
Result of Active Engagement



- Increased coordination with power plant owners and operational staff
- Heightened awareness of CEC presence in the industry
- Improved worker safety
- Improved fire protection systems and their maintenance
- Improved overall flexibility and resiliency



Conventional Power Plant Transition





Thank You!