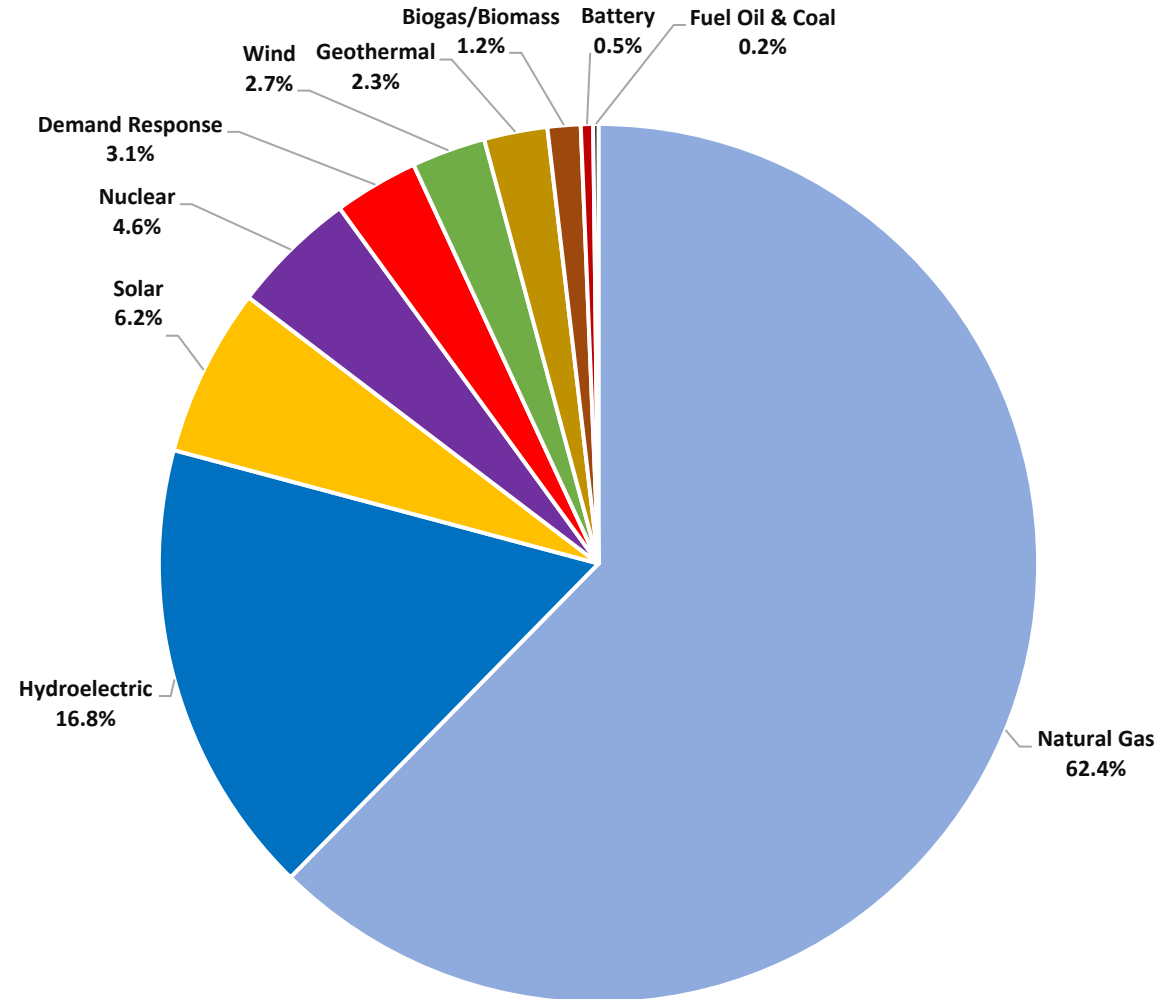

Thomas Popik

Chairman, Foundation for Resilient Societies



CAISO Net Qualified Capacity for August 2020—49.2 GW

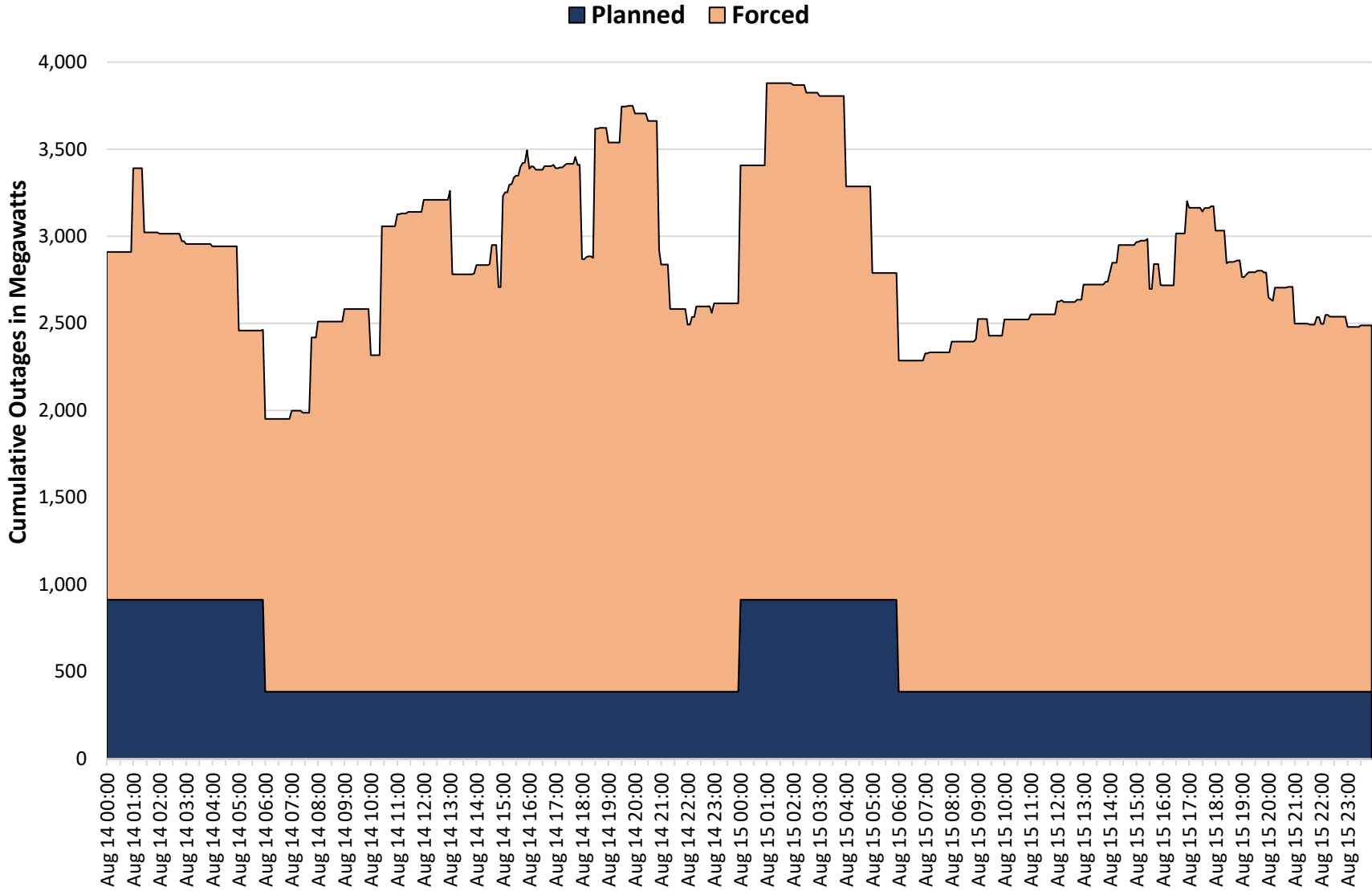
NQC does not include planned imports in CAISO Summer Forecast



Source: CAISO 2020 NQC List, Foundation for Resilient Societies Analysis



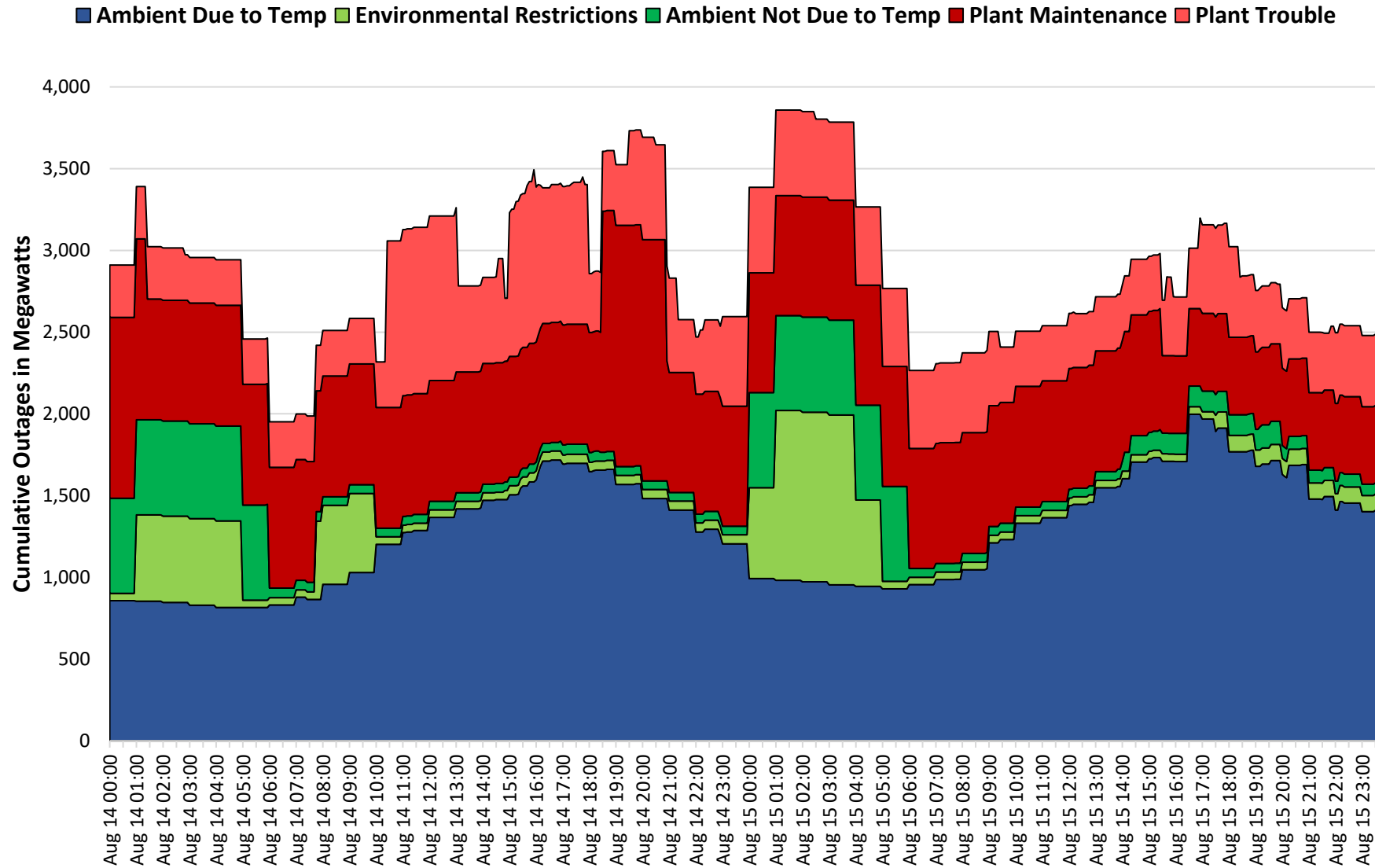
August 14-15 Outages at CAISO Gas-Fired Plants



Source: CASIO Outage Data for August 13-16, Foundation for Resilient Societies Analysis



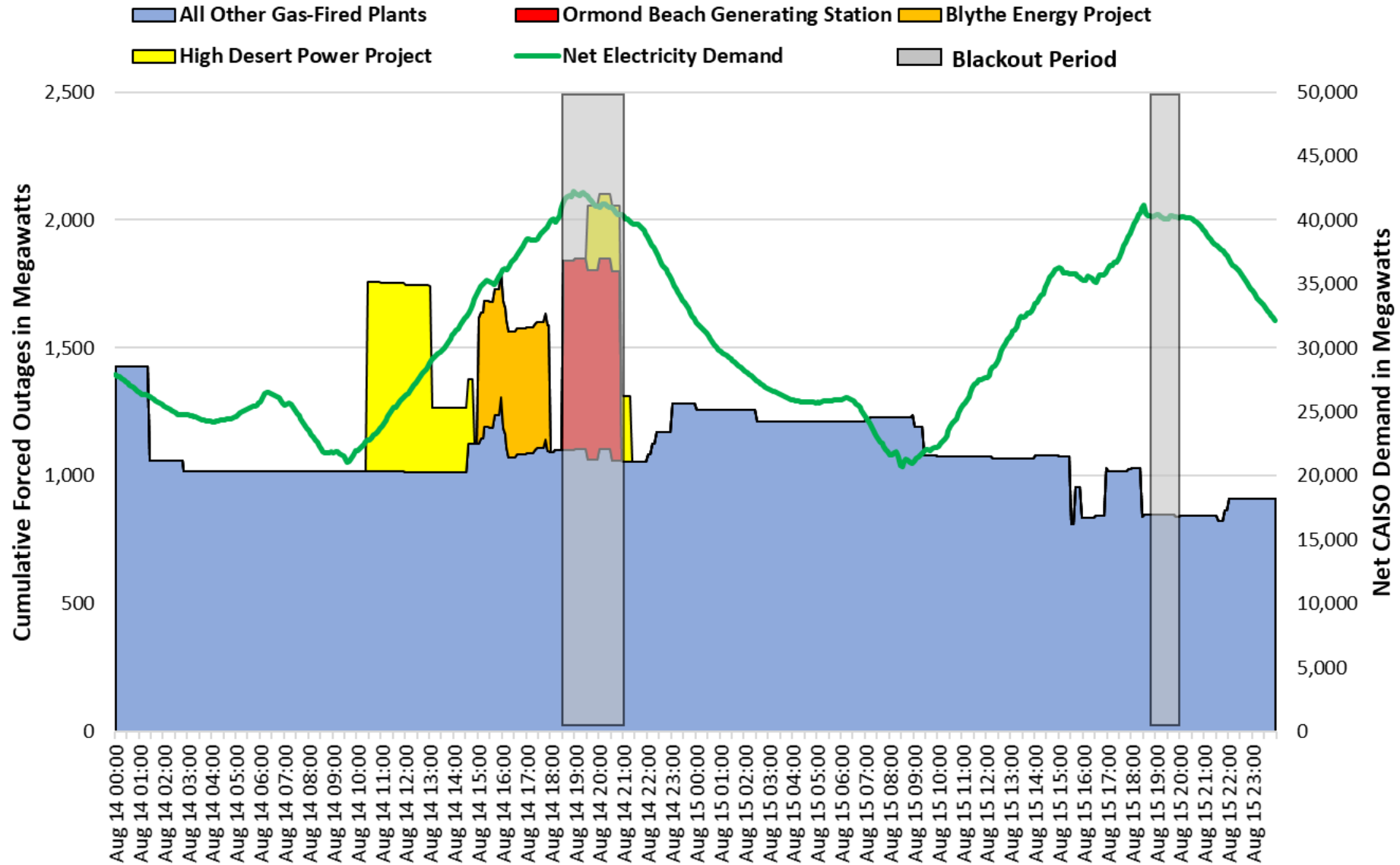
August 14-15 Outages at CAISO Gas-Fired Plants



Source: CASIO Outage Data for August 13-16, Foundation for Resilient Societies Analysis



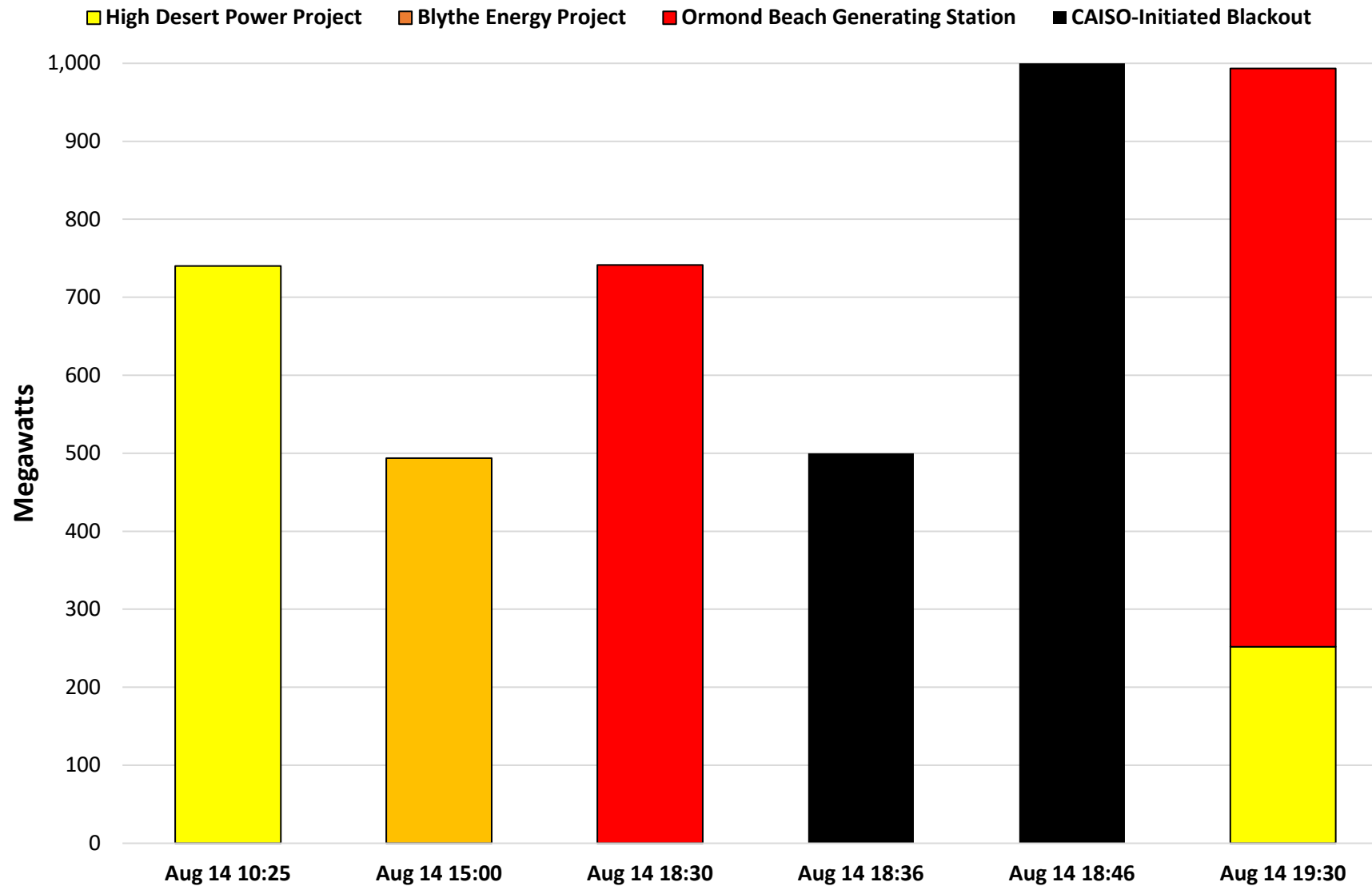
August 14-15 Forced Outages Due to Maintenance/Trouble at CAISO Gas-Fired Plants



Source: CASIO Outage Data for August 13-16, CAISO Net Demand, CAISO Final Root Cause Analysis, Foundation for Resilient Societies Analysis



Forced Outages Due to Plant Maintenance/Trouble vs. CAISO-Initiated Blackout



Source: CASIO Outage Data for August 13-16, CAISO Net Demand, CAISO Final Root Cause Analysis, Foundation for Resilient Societies Analysis



California Consumers Pay for NQC Generators To Be Available



On August 14 Outages Peaked at 12% of Net Qualified Capacity for CAISO Gas-Fired Plants, Despite Large Capacity Payments

Financial Terms of Utility Contracts with Generation Plants Are Withheld from Public
At Peak, 90% of Plant Outages Were “Forced” (Same Day Notification to CAISO)



Factors in Gas-Fired Outages Were Ambient Conditions, Environmental Restrictions, Plant Maintenance, and Plant Trouble



3 Large Plants Had Forced Outages Due to “Plant Maintenance/Trouble” as Net Electricity Demand Ramped on August 14

Role of Ormond Beach and High Desert Outages Not In CAISO Final Root Cause Analysis
Blackout Initiated at 18:36, Six Minutes After Forced Outage at Ormond Beach Plant
Ormond Beach Outage Overlaps Blackout Period



Cause of Major Forced Outages During August Blackouts Needs Investigation

Are California Consumers Getting Value for The Money They Are Paying to NQC Generators?
Results of Investigation Should Be Made Public

