

Exhibit to Agenda Item #3

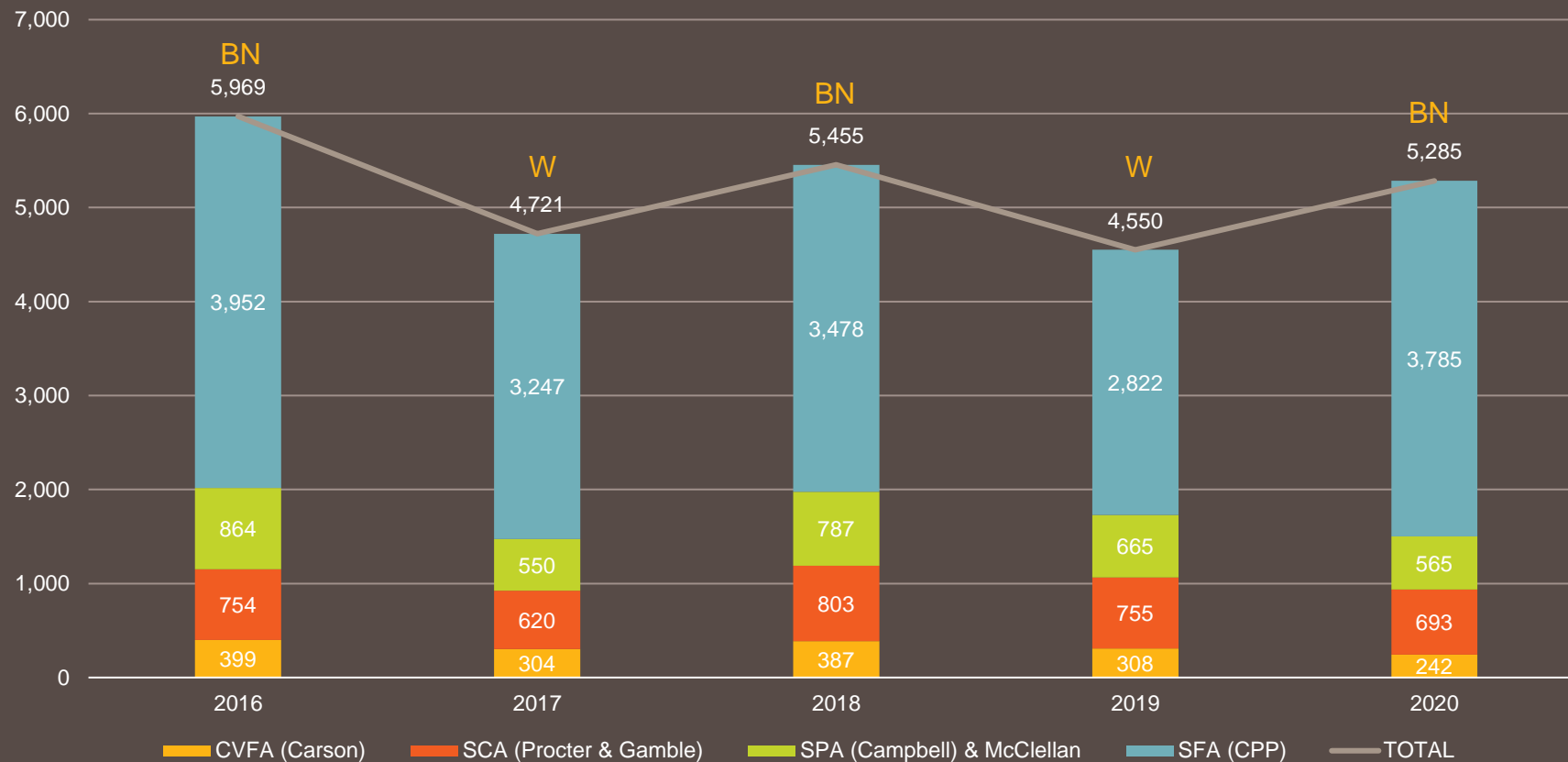
- a. Review of activities and performance for **CVFA** during the 2020 calendar year.
- b. Review of activities and performance for **SCA** during the 2020 calendar year.
- c. Review of activities and performance for **SFA** during the 2020 calendar year.
- d. Review of activities and performance for **SPA** during the 2020 calendar year.

Joint Annual Meetings of the Joint Powers Agencies (JPAs)

Thursday, April 15, 2021, immediately following the SMUD Board of Directors Meeting scheduled to begin at 5:30 p.m.

Virtual Meeting (online)

Annual SMUD Thermal Load (GWh)



Water Year: BN = Below Normal, W = Wet

Effective COVID-19 Protocols

- ❑ No impact to operation
- ❑ No on-site transmission



April 15, 2021

Joint Annual Meetings of the Joint Powers Agencies (JPAs)

Central Valley Financing Authority (CVFA) Cogen I (Carson Ice Cogen)



CVFA Cogen I (Carson Ice Cogen)

- 99.9 MW Net Dependable Capacity (NDC):
 - 57.4 MW Cogeneration
 - 42.5 MW Simple Cycle Peaking Unit
- General Electric (GE) Aero Derivative Gas Turbines (LM6000)
- Operated by EthosEnergy Power Plant Services
- Commodities Agreement (expires in 2025)
 - SMUD/CVFA sells steam and electricity to Regional San (*SRWTP – Sacramento Regional Wastewater Treatment Plant*)
 - Regional San sells digester gas to CVFA
 - CVFA cleans and sells the digester gas to SMUD
 - SMUD transfers the digester gas to Cosumnes Power Plant (CPP) for generation

CVFA Cogen I (Carson Ice Cogen)

Operational Performance Data:	2019	2020
Equivalent Forced Outage Factor (EFOF)	0.081%	0.16%
IEEE* Equivalent Availability (online or ready to run)	92.04%	94.01%
Combined Cycle Capacity Factor (based on 57.4 MW)	58.97%	38.47%
Peaker Capacity Factor (based on 42.5 MW)	1.64%	1.84%
Generation Compared to Budget	105.70%	201.60%

**Institute of Electrical and Electronics Engineers*

- ❑ There were no lost time or California Occupational Safety and Health Administration (OSHA)-recordable injuries at the Carson Cogeneration Project during 2020.
- ❑ All permit and regulatory requirements were satisfactorily met during 2020.
- ❑ The CVFA Peaker starting reliability was 97.8% in 2020 (45 successful starts).

Sacramento Cogeneration Authority (SCA) Cogen II (Procter & Gamble Cogen)



SCA Cogen II (Procter & Gamble Cogen)

- 184 MW Total Capacity (164.3MW original Net Dependable Capacity):
 - 134MW Cogeneration
 - 50MW Simple Cycle Peaking Unit
- General Electric (GE) Aero Derivative Gas Turbines (LM6000)
- Operated by EthosEnergy Power Plant Services
- Steam Sales Agreement (Extended through 2028):
 - Procter & Gamble Oleo-chemicals
 - Factory converts palm kernel and coconut oils into alcohol esters
 - Agreement includes an off ramp with 3-year notice

SCA Cogen II (Procter & Gamble Cogen)

Operational Performance Data:	2019	2020
Equivalent Forced Outage Factor (EFOF)	0.06%	0.14%
IEEE* Equivalent Availability (online or ready to run)	95.53%	93.21%
Combined Cycle Capacity Factor (based on 120.3 MW)	61.20%	64.32%
Peaker Capacity Factor (based on 44 MW)	3.90%	4.02%
Generation Compared to Budget	90.80%	125.90%

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- ❑ There were no lost time or California Occupational Safety and Health Administration (OSHA)-recordable injuries at the SCA Cogeneration Project during 2020.
- ❑ All permit and regulatory requirements were satisfactorily met during 2020.
- ❑ The SCA Peaker starting reliability was 100% in 2020 (77 successful starts).

Sacramento Power Authority (SPA) Cogen III & McClellan Gas Turbine



SPA Cogen III & McClellan Gas Turbine

- SPA Cogen III:
 - 160 MW Cogen facility
 - Siemens industrial frame gas turbine (V84.2)
 - No Current Steam Host
- McClellan Gas Turbine:
 - 72MW Simple Cycle Peaking Unit
 - General Electric (GE) industrial frame gas turbine (Frame 7E)
- Operated by EthosEnergy Power Plant Services

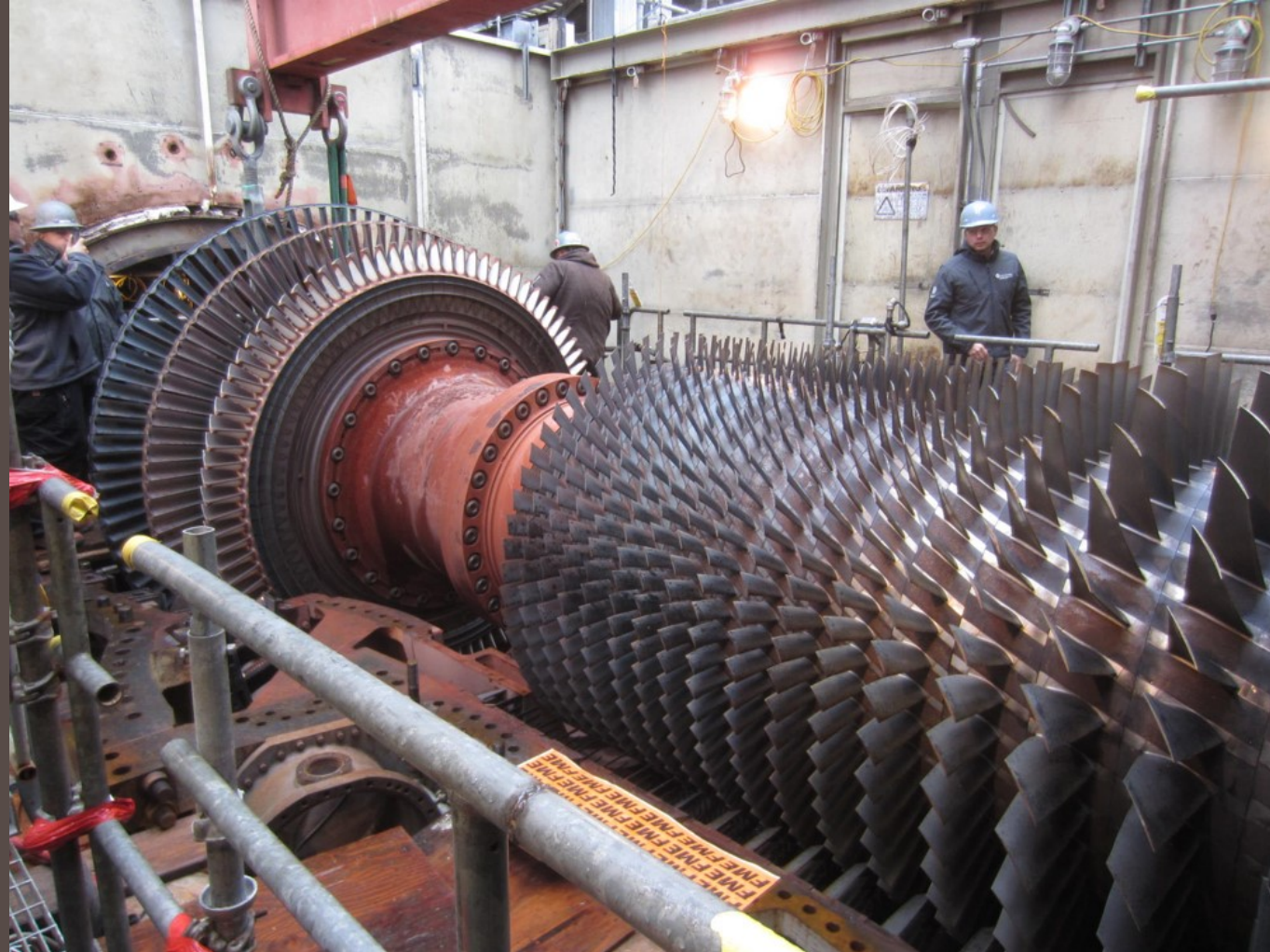
SPA Cogen III & McClellan Gas Turbine

Operational Performance Data:	2019	2020
Equivalent Forced Outage Factor (EFOF)	0.16%	0.08%
IEEE* Equivalent Availability (online or ready to run)	81.66%	96.23%
Overall Capacity Factor (based on 159.8 MW)	43.70%	38.25%
Generation Compared to Budget	67.80%	173.30%

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- ❑ There were no lost time or California Occupational Safety and Health Administration (OSHA)-recordable injuries at SPA and McClellan during 2020.
- ❑ All permit and regulatory requirements were satisfactorily met during 2020.
- ❑ Completed construction of the recycled water infrastructure and began receiving recycled water in July, delivery was terminated in October due to the water quality from Regional San.
- ❑ The McClellan Peaker starting reliability was 100% in 2020.

Sacramento Municipal Utility District Financing Authority (SFA) Cosumnes Power Plant (CPP)



SFA Cosumnes Power Plant (CPP)

- 601 MW Combined Cycle 2x1 Power Plant
- General Electric (GE) Frame 7FA Gas Turbines (7241FA)
- Operated by EthosEnergy Power Plant Services
- CPP burns SMUD's renewable biogas
 - Digester gas from Regional San
 - Contracted Biogas from various sources
- Cleanest, most efficient use of renewable biogas

SFA Cosumnes Power Plant (CPP)

Operational Performance Data:	2019	2020
Equivalent Forced Outage Factor (EFOF)	0.37%	0.30%
IEEE* Equivalent Availability (online or ready to run)	70.91%	89.40%
Overall Capacity Factor (based on 601 MW)	59.60%	76.90%
Generation Compared to Budget	81.10%	92.50%

**Institute of Electrical and Electronics Engineers*

- ☐ There were no lost time or California Occupational Safety and Health Administration (OSHA)-recordable injuries at the Cosumnes Power Plant during 2020.
- ☐ All permit and regulatory requirements were satisfactorily met during 2020.
- ☐ Completed the Zero Liquid Discharge Replacement Project.
- ☐ Completed a Distributed Control System Upgrade.