

ATTACHMENT 2

**CALIFORNIA ENERGY COMMISSION
EMISSION PERFORMANCE STANDARD COMPLIANCE FILING**

DESCRIPTION OF IPP REPOWERING PROJECT

Name of Facility. Intermountain Power Project

Location of Facility 850 W Brush Wellman Road, Delta Utah 84624

Proposed Technology/Fuel: Natural Gas-Fired Combined Cycle Generating Facility

Planned Commercial Operation Date: July 1, 2025

Generation Configuration Options:

Preliminary Rated Capacity and CO₂ emission estimates were developed from vendor data with station service loads and long term degradation applied for the IPP Repowering Project at site conditions of: 102 °F, 9.7% RH, and an elevation of 4760 ft with evaporative inlet cooling. The combined unit output will be limited to a maximum of 840 MW Net.

Prime Mover	1x1 Combined Cycle	1x1 Combined Cycle	1x1 Combined Cycle
Quantity	2	2	2
Manufacturer	GE	Siemens	Mitsubishi
Model	7HA.02	SGT6-9000HL	M501JAC
Rated Capacity (MW), at IPP Site	435 each, 870 total	430 each, 860 total	451 each, 902 total
Fuel Used	Natural Gas	Natural Gas	Natural Gas
EPS Compliant	Yes	Yes	Yes
Expected Operating Profile	See Figure 3	See Figure 3	See Figure 3
Expected energy output (MWh)	See Figure 3	See Figure 3	See Figure 3
Expected fuel use profile	See Figure 4	See Figure 5	See Figure 6
Estimated CO ₂ emissions for site conditions, (lbs/MWh)	752	755	764
Estimated CO ₂ emissions after derate	756	761	771

Figure 1 - Generation Configuration Options.

Power Purchase Contract Terms

Name of Counter Party: Intermountain Power Agency (IPA)

Length of Renewal Power Sales Contract: 50 years

Duration. July 1, 2027 – June 15, 2077

Product: Energy (MWh)

Capacity for Project: 840 MW¹

Capacity for Participants. Below in Figure 2, is the subscribed generation entitlement for each Participant under the Renewal Power Sales Contracts.

CALIFORNIA PURCHASERS		
PURCHASER	SHARE TO BE DELIVERED	SHARE OF 840 MW
Burbank	4.167%	35
Glendale	4.167%	35
LADWP	64.775%	544
Pasadena	1.667%	14
Riverside	4.167%	35
GROUP TOTAL	78.943%	663
UTAH COOPERATIVE PURCHASERS		
GROUP TOTAL	7.017%	59
UTAH MUNICIPAL PURCHASERS		
GROUP TOTAL	14.040%	118
PURCHASER TOTAL	100.000%	840

Figure 2 - Generation Distribution

Expected Deliverables: Please refer to Figure 2

Must Take Provisions: Please refer to Figure 2

Dispatch Provisions: It is assumed that LADWP will continue its responsibilities as the Operating Agent for the repowered IPP units, and will continue to be responsible for the dispatch of the IPP units based on Participant and system demand.

Unit Contingency: N/A

Expected Operating Profiles.

A simulation of the load profile performed by LADWP staff is below in Figure 3 utilizing the GE configuration. The Siemens and Mitsubishi options will follow similar profiles as the heat rates and other characteristics are comparable. The load profile was used to derive the average estimated energy output per year as shown below:

Energy Output (MWh): 5,003,712

The average annual capacity factor for all manufacturers is 68%.

¹ The Project size per the Partnership needs is limited to 840 MW Net. The Generation Scenarios listed above are based on the available generation sizes from the 3 respective vendors.

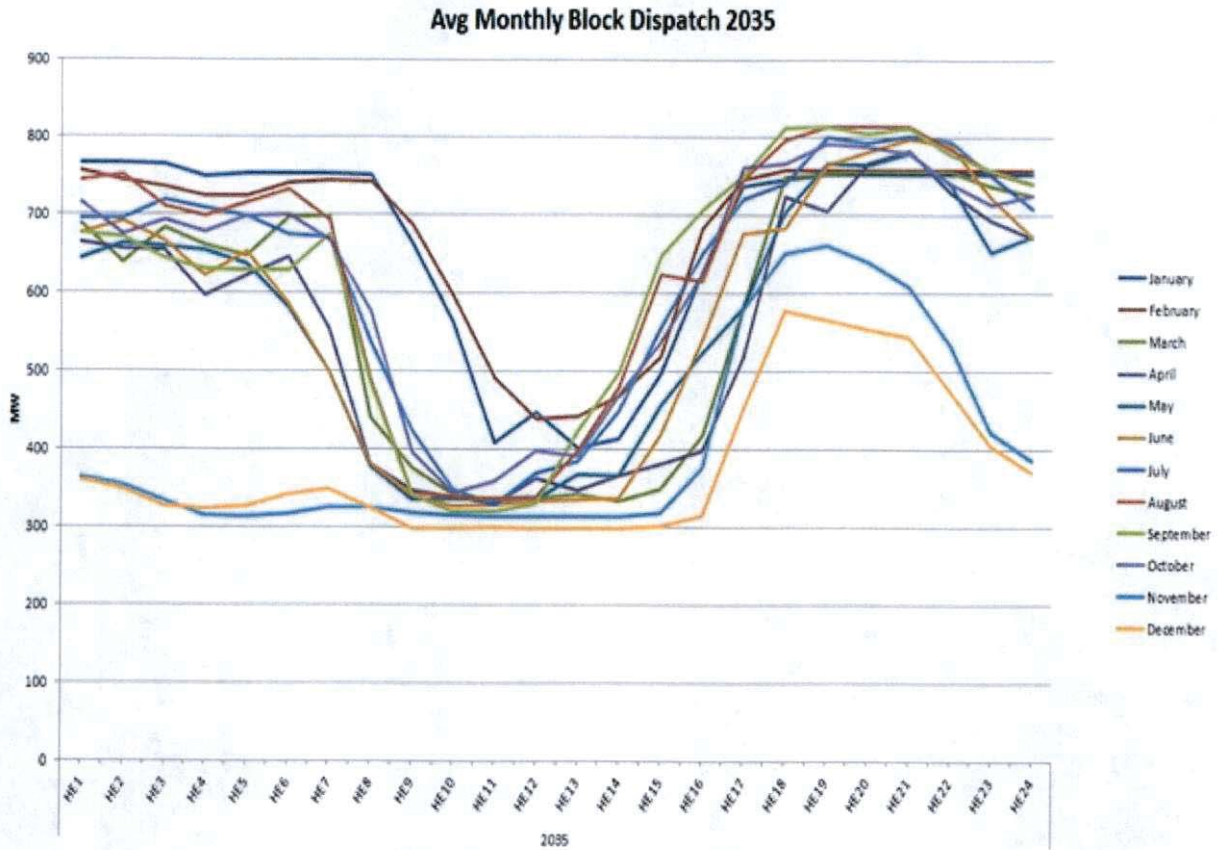


Figure 3 - Average Monthly Block Dispatch

Expected Fuel Use Profile:

Below is the preliminary fuel use data received from each respective vendor, estimated for the IPP site conditions.

GE - Estimated Combined Cycle Data for IPP Repowering					
All data estimated for site conditions, no duct firing, cooling towers					
Evaporative Cooling		On	Off	Off	Off
Load		100%	100%	80%	60%
Net Block Output	MW	435	385	313	245
Block Heat Input (HHV)	MMBTU/h	2,794	2,484	2,073	1,704
CO2 Emissions	lbs/MWh	752	755	775	815

Figure 4 - GE Fuel Use Profile (from vendor data)

Siemens - Estimated Combined Cycle Data for IPP Repowering					
All data estimated for site conditions, no duct firing, cooling towers					
Evaporative Cooling		On	Off	Off	Off
Load		100%	100%	80%	60%
Net Block Output	MW	430	381	309	242
Block Heat Input (HHV)	MMBTU/h	2,776	2,475	2,124	1,756
CO2 Emissions	lbs/MWh	755	761	803	849

Figure 5 - Siemens Fuel Use Profile (from vendor data)

Mistubishi - Estimated Combined Cycle Data for IPP Repowering					
All data estimated for site conditions, no duct firing, cooling towers					
Evaporative Cooling		On	Off	Off	Off
Load		100%	100%	80%	60%
Net Block Output	MW	451	414	339	265
Block Heat Input (HHV)	MMBTU/h	2,942	2,720	2,282	1,860
CO2 Emissions	lbs/MWh	764	768	787	820

Figure 6 - Mitsubishi Fuel Use Profile (from vendor data)

Data from Existing Plant – Apex Generating Station

Below in Figure 7 is average hourly data extracted from LADWP's Apex Generating Station located in Clark County, Nevada. The plant consists of a GE MS7000FA 527 MW 2x1 Combined Cycle generating station. The total energy output for the plant in 2015 was 2,635,293 MWh, with a resultant capacity factor of 57%.

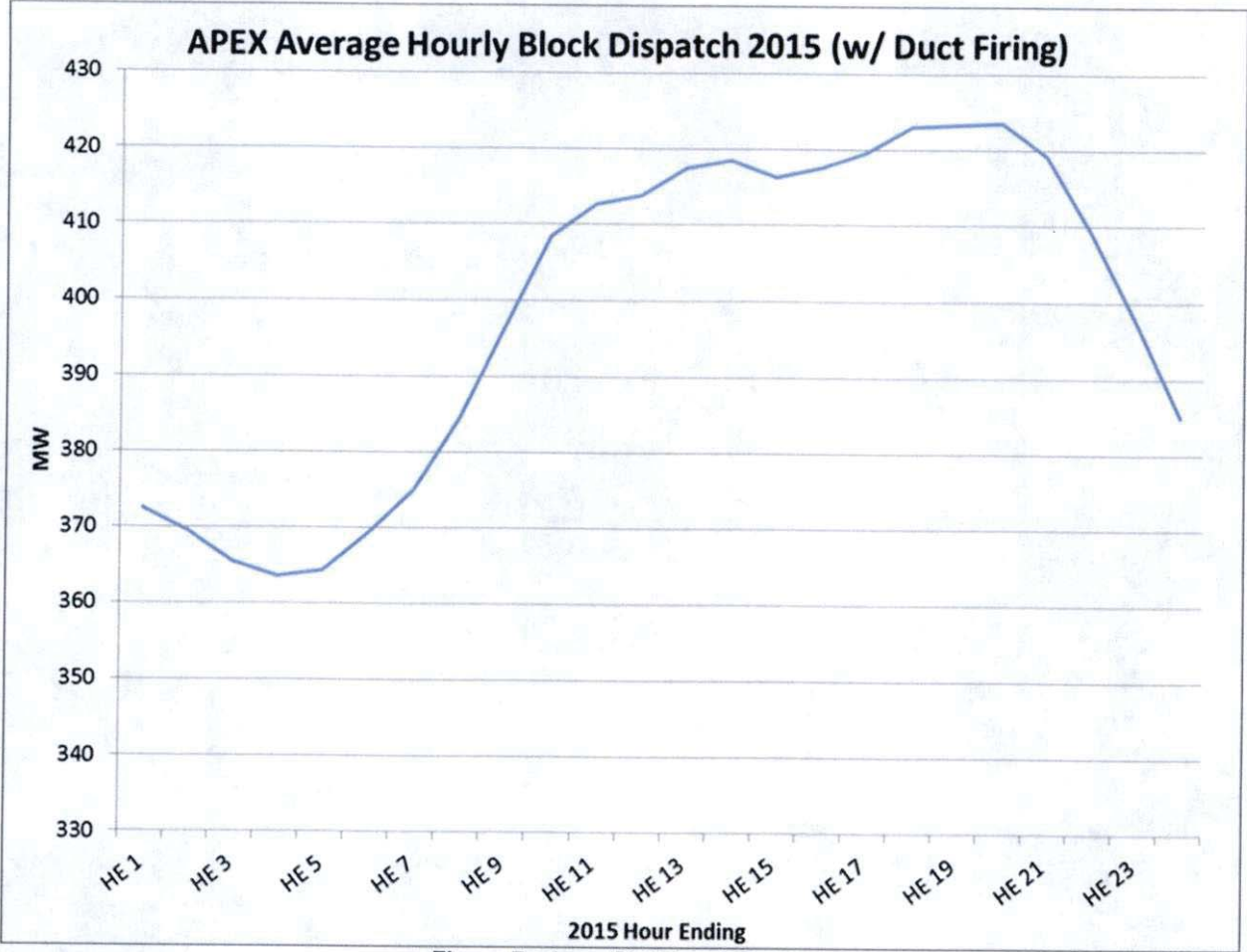


Figure 7 - Apex 2015 Load Profile

Apex - Data		100%	90%	80%	70%	60%	50%	40%	30%
Load									
Net Plant Output	MW	531	478	425	372	319	266	212	192
CO2 Emissions	lbs/MWh	884	835	841	856	886	939	1,031	1,084

Figure 8 - Apex 2015 Fuel Use Profile