

Application No. 22-08-____
Exhibit No. PAC/100
Witness: Ramon J. Mitchell

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA

PACIFICORP

REDACTED

Direct Testimony of Ramon J. Mitchell

ECAC Overview and Discussion of Net Power Cost Modeling

August 2022

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ATTACHED EXHIBITS

Exhibit PAC/101 – Net Power Cost Analysis—Projected 2023 NPC

Exhibit PAC/102 – Net Power Cost Analysis—Prior ECAC’s Projected 2022 NPC

Confidential Exhibit PAC/103 – Net Power Cost Analysis—Projected NPC Comparison to
Prior ECAC

Exhibit PAC/104 – 2023 California-allocated NPC

1 **I. INTRODUCTION AND QUALIFICATIONS**

2 **Q. Please state your name, business address, and present position with PacifiCorp**
3 **d/b/a Pacific Power (PacifiCorp or Company).**

4 A. My name is Ramon J. Mitchell and my business address is 825 NE Multnomah Street,
5 Suite 600, Portland, Oregon 97232. My title is Manager, Net Power Costs.

6 **Q. Briefly describe your education and business experience.**

7 A. I received a Master of Business Administration degree from the University of
8 Portland and a Bachelor of Arts degree in Economics from Reed College. I was first
9 employed by the Company in 2015 and during my time at the Company I have held
10 various positions in the regulation, merchant, and transmission departments. After a
11 brief departure from the Company, in 2021 I returned to PacifiCorp as Manager, Net
12 Power Costs. In my current role I am responsible for leading and overseeing all
13 modeling efforts associated with the Company’s regulatory net power costs and
14 various other regulatory filings.

15 **Q. Have you testified in previous regulatory proceedings?**

16 A. Yes. I have filed testimony before the Public Utility Commission of Oregon.

17 **II. PURPOSE OF TESTIMONY**

18 **Q. What is the purpose of your testimony in this proceeding.**

19 A. I present an overview of the Company’s proposed Energy Cost Adjustment Clause
20 (ECAC) for calendar year 2023 (2023 ECAC). Specifically, my testimony:

- 21 • Presents an overview of the ECAC and the time periods associated with the
22 ECAC’s Offset and Balancing rates.

- 1 • Describes the determination of 2023 Projected Net Power Costs (NPC) using
2 the Company’s production cost model, Aurora;
- 3 • Presents the 2023 Projected NPC, which are used to develop the 2023 Offset
4 Rate;
- 5 • Presents a comparison of the 2023 Projected NPC to the 2022 Projected NPC
6 from the 2022 ECAC; and
- 7 • Includes a discussion about the Company’s participation in the energy
8 imbalance market (EIM) with the California Independent System Operator
9 (CAISO) and the benefits from the EIM that are passed through to customers.

10 **III. ECAC RATES AND TIME PERIODS**

11 **Q. What are the main components of the ECAC?**

12 A. The ECAC Offset Rate and the ECAC Balancing Rate.

13 **Q. What time periods are relevant to the ECAC?**

14 A. The Offset Period, the Balancing Period, and the Intermediate Period.

15 **Q. In this filing, what time period does the Offset Period represent?**

16 A. The Offset Period includes the 12-month period beginning January 1, 2023, and
17 extending through December 31, 2023 (i.e., calendar year 2023). The Offset Period is
18 the rate effective period.

19 **Q. In this filing, what time period does the Balancing Period represent?**

20 A. The Balancing Period includes the 24-month period beginning January 1, 2021, and
21 extending through December 31, 2022 (i.e., calendar years 2021 and 2022).

1 **Q. In this filing, what time period does the Intermediate Period represent?**

2 A. The Intermediate Period includes the portion of the Balancing Period from June 1,
3 2022, through December 31, 2022.

4 **A. ECAC Offset Rate**

5 **Q. What is the ECAC Offset Rate?**

6 A. The ECAC Offset Rate is an unbundled rate established either during the most recent
7 California general rate case or between general rate cases if the new ECAC Offset
8 Rate changes by more than 5 percent and is equal to the Offset Period's California-
9 allocated Projected NPC plus Other Costs for Recovery, all divided by California
10 projected sales and adjusted for the ECAC billing factor (which is the adjustment rate
11 for franchise fees and uncollectible accounts expenses from the most recent general
12 rate case).

13 **Q. What is Projected NPC.**

14 A. Projected NPC is the total-company sum of forecasted NPC components that are
15 calculated by the Company's power cost model. The Projected NPC spans the
16 entirety of the Intermediate Period and the Offset Period.

17 **Q. What are Other Costs for Recovery**

18 A. Other Costs for Recovery include California-allocated fuel stock carrying charges,
19 California Air Resources Board administrative costs, net metering surplus
20 compensation, renewable energy credit purchases for renewables portfolio standard
21 compliance, renewable energy production tax credits, start-up fuel costs, reasonable
22 energy price qualifying facility costs, EIM body of state regulators costs and Western
23 Power Pool western resource adequacy program costs.

1 **B. ECAC Balancing Rate**

2 **Q. What is the ECAC Balancing Rate?**

3 A. The ECAC Balancing Rate is the Balancing Period’s California-allocated share of the
4 difference between prior ECACs’ Projected NPC and Adjusted Actual/Projected
5 NPC, plus Other Costs for Recovery all adjusted by California actual sales, divided
6 by California projected sales and adjusted for the ECAC billing factor.

7 **Q. What is Adjusted Actual NPC?**

8 A. NPC are defined as the sum of the Company’s fuel expenses, wholesale purchase
9 power expenses, and wheeling expenses, less wholesale sales revenue. Adjusted
10 Actual NPC are the sum of total-company amounts recorded in Federal Energy
11 Regulatory Commission Accounts 501, 503 and 547 (Steam Production Fuel
12 Expense) for the Company’s coal, geothermal, and natural gas resources; 555
13 (Purchased Power); and 565 (Wheeling); less Account 447 (Sales for Resale). These
14 amounts are adjusted to: (1) align booked NPC in those accounts with NPC used in
15 the rate setting process, ensuring only comparable costs are used in the deferral
16 calculation; and (2) remove prior-period accounting entries, if any, recorded during
17 the deferral period that are not applicable to the current period.

18 **Q. What is Adjusted Actual/Projected NPC?**

19 A. Adjusted Actual/Projected NPC is the combination of Adjusted Actual NPC for the
20 portion of the Balancing Period for which Adjusted Actual NPC has been recorded
21 and the Projected NPC for the remainder of the Balancing Period (this remainder is
22 the Intermediate Period).

1 **C. ECAC Rate Vintage**

2 **Q. What time periods are relevant to the ECAC Balancing Rate?**

3 A. The ECAC Balancing Rate is based on the Balancing Period, which includes two sub-
4 periods: one from January 1, 2021, to May 31, 2022, and the other is the Intermediate
5 Period that runs from June 1, 2022, to December 31, 2022.

6 **Q. Which NPCs are compared in the first sub-period of the ECAC Balancing Rate**
7 **(January 1, 2021, to May 31, 2022)?**

8 A. The first sub-period (January 1 to May 31, 2021) includes (1) the 2021 Projected
9 NPC from the 2021 ECAC which is compared to the 2021 Adjusted Actual NPC, and
10 (2) the 2022 Projected NPC from the 2022 ECAC which is compared to the 2022
11 Adjusted Actual NPC.

12 **Q. Which NPCs are compared in the second sub-period of the ECAC Balancing**
13 **Rate (June 1, 2022, to December 31, 2022)?**

14 A. The second sub-period (the Intermediate Period), includes the 2022 Projected NPC
15 from the 2022 ECAC compared to the 2023 Projected NPC from this filing, for the
16 time period June 1, 2022, to December 31, 2022.

17 **Q. What are the benefits of a two-year Balancing Period**

18 A. As opposed to other states which have separate filings for offset and balancing rates,
19 where each filing examines either the Offset Period or the first year of the Balancing
20 Period, rebalancing and truing up rates within the second year of the Balancing Period
21 provides rate stability and avoids rate shock. For example, if there are significant
22 changes in market prices that impact NPC during the second year of the Balancing
23 period, PacifiCorp's combined re-balance and true-up of rates provides for

1 incremental rate recovery that smooths out the effects from this market volatility.
 2 This avoids deferring intra-period rate changes to subsequent years, and potentially
 3 avoids accumulation of the deferred balance.

4 **Q. Please provide an illustration of which NPC from which applications are**
 5 **compared against each other in the rates.**

6 A. Please refer to Table 1 below.

Table 1

	Calendar Year 2021	01/2022 – 05/2022	06/2022 – 12/2022	Calendar Year 2023
ECAC Rate:	Balancing Rate	Balancing Rate	Balancing Rate	Offset Rate
ECAC Period:	Balancing Period	Balancing Period	Intermediate Period	Offset Period
Prior ECAC Applications:	2021 Projected NPC (2021 ECAC)	2022 (Jan - May) Projected NPC (2022 ECAC)	2022 (Jun - Dec) Projected NPC (2022 ECAC)	
Current ECAC Application:	2021 Adjusted Actual NPC	2022 (Jan - May) Adjusted Actual NPC	2022 (Jun - Dec) Projected NPC	2023 Projected NPC

7 **IV. ECAC RATE OVERVIEW**

8 **Q. Please provide an overview of the ECAC filing.**

9 A. In this 2023 ECAC filing, the Company is requesting to return approximately
 10 \$1.0 million through the Balancing Rate to true-up collection of actual NPC during
 11 2021 and 2022. The change in the Balancing Rate results in a \$1.8 million decrease
 12 compared to rates currently in effect that were approved in Decision (D.) 21-11-001,
 13 the Company’s 2021 ECAC and Greenhouse Gas (GHG) Application, Application
 14 (A.) 20-08-002. The Company is also proposing to adjust the Offset Rate for 2023
 15 resulting in a rate increase of approximately \$5.6 million, as compared to rates
 16 currently in effect that were approved in D.21-11-001. Compared to total-company

1 NPC proposed in the 2022 ECAC,¹ Projected NPC in the 2023 ECAC are higher by
2 20.0 percent. As shown in further detail in the testimony of Mr. Jack Painter, the
3 proposed 2023 Offset Rate is \$31.33 per megawatt-hour (MWh), which is an increase
4 of 24.6 percent from the rate of \$25.15 per MWh, which the Company proposed in its
5 2022 ECAC and GHG Application, A.21-08-004 (2022 ECAC Application). The
6 Company's proposed change to the Offset Rate for 2023 satisfies the Commission's
7 requirement that only increases or decreases greater than five percent from prior rates
8 are permitted.

9 Calculations of the Balancing Rate and Offset Rate are provided in the
10 testimony of Mr. Painter (Exhibit PAC/200). If approved, the proposed rates would
11 take effect January 1, 2023. Ms. Judith M. Ridenour provides testimony describing
12 the impact on customers' rates (Exhibit PAC/700).

13 **Q. Please explain the status of the Company's 2022 ECAC Application.**

14 A. The Company's 2022 ECAC Application has been fully heard and briefed and is
15 awaiting a final decision. In preparing the 2023 ECAC Offset and Balancing Rates,
16 the Company has assumed that the Offset and Balancing rates proposed in A.21-08-
17 004 will be approved by the Commission.² Consistent with previous PacifiCorp
18 ECAC applications, if the Commission modifies the proposed rates in its final
19 decision, the Company will update this Application with supplemental testimony or
20 an amended application to reflect those changes.³

¹ A Commission decision regarding the Company's 2022 ECAC Application in A.21-08-004 is still pending.

² The present rates and rate impact calculation presented in Exhibit PAC/700 do not reflect the pending rates proposed in A.21-08-004, but rather rates that are currently in place.

³ See *In re PacifiCorp 2022 ECAC*, Dkt. A.21-08-004, Amended Application (Jan. 7, 2022).

1 **V. 2023 PROJECTED NET POWER COSTS**

2 **Q. How does the Company calculate its Projected NPC?**

3 A. Projected NPC are calculated for the Intermediate Period and the Offset Period based
4 on forecasted data using the Aurora model, which is a production cost model that
5 simulates the operation of the Company's power system on an hourly basis.

6 **Q. Is the Company's general approach to the calculation of NPC using the Aurora
7 model the same in this case as in the previous ECAC filing?**

8 A. Yes. The Company used the Aurora model in its prior ECAC filing.

9 **Q. What Aurora inputs were updated for this filing?**

10 A. Aurora model inputs were updated to include:

- 11 • Updates to the Company's forward price curves for electricity and natural gas
12 prices, with a vintage of March 31, 2022;
- 13 • New wholesale electricity sales and purchase transactions, both physical and
14 financial;
- 15 • New natural gas sales and purchase transactions, both physical and financial;
- 16 • New wheeling contracts and updates to transmission paths and capacities,
17 including on Company-owned transmission;
- 18 • Updates to existing contracts for wholesale sales and purchases of electricity
19 and natural gas and for wheeling;
- 20 • New and updated coal supply and transportation contracts and costs;
- 21 • Updates to the capabilities of the Company's owned generation resources
22 along with the cost to integrate wind generation, solar generation and load on
23 the Company's system; and

- 1 • Updates to forecast loads.

2 **Q. What reports does the Aurora model produce?**

3 A. The major output from the Aurora model is the NPC report. The 2023 NPC report is
4 attached as Exhibit PAC/101.

5 **Q. Does the Aurora model appropriately reflect the Company's Projected NPC?**

6 A. Yes. The Aurora model reasonably simulates the operation of the Company's system
7 load and resource portfolio, consistent with the Company's system operation
8 constraints and requirements. Any variances from Projected NPC are handled
9 through the ECAC balancing account, where Projected NPC are trued up to Adjusted
10 Actual NPC on a monthly basis.

11 **Q. What is the Projected NPC for 2023?**

12 A. The Company's Projected NPC for calendar year 2023 is \$1.752 billion, or
13 approximately \$26.7 million on a California-allocated basis. The Company's 2023
14 NPC study is provided as Exhibit PAC/101 and the California-allocated NPC is
15 provided as Exhibit PAC/104.

16 **Q. In the 2021 ECAC the Company used the Generation and Regulation Initiative
17 Decision Tools (GRID) production cost model. How does the change from GRID
18 to Aurora impact prior Commission directives?**

19 A. Because of limitations in the GRID model, for previous ECAC filings the Company
20 engaged in an iterative process to ensure that the optimal marginal costs used for the
21 dispatch of its coal plants accurately reflected the provisions in the Company's coal
22 supply agreements. In approving the Company's 2020 ECAC, the Commission
23 required additional transparency in the process and directed the Company to produce

1 the following information for future ECAC applications:

- 2 1. information on the marginal fuel cost assumed for each coal plant, the specific
3 coal plants where adjustments were made to align forecasted generation with
4 minimum take provisions, and the magnitude of adjustments made;
- 5 2. a GRID model run that depicts the NPC when adjustments are made to the
6 Dispatch Tier meet minimum take provisions;
- 7 3. a GRID model run that depicts the NPC when the Dispatch Tier is based
8 purely on marginal costs; and
- 9 4. a GRID model run that depicts the NPC when average fuel costs are utilized
10 to forecast unit dispatch.⁴

11 As a result of the switch from GRID to Aurora in the 2022 ECAC, the
12 Commission subsequently granted the Company's request to waive the second and
13 third requirements, though continued to require the Company to address the first and
14 fourth requirements.⁵ Consistent with the ALJ's decision, PacifiCorp updated its
15 2022 ECAC Application to respond to the remaining Commission requirements.⁶
16 PacifiCorp again responds to these requirements below.

17 **Q. Please provide the information requested in the first requirement.**

18 A. The Aurora model used by the Company in this Application and the 2022 ECAC
19 proceeding provides greater flexibility around the modeling of fuel consumption than
20 the GRID model that the Company formerly used. Aurora can model multiple tiered
21 pricing contracts and volumetric contract provisions, and has neither "dispatch tiers"
22 nor "costing tiers" that the GRID model utilized. Consequently, and as the Company
23 noted in its 2022 Compliance filing, adjustments to marginal fuel cost assumed for

⁴ *Id.*, at 16-17.

⁵ *In re PacifiCorp's 2022 ECAC*, A.21-08-004, ALJ E-Mail Ruling (Dec. 21, 2021).

⁶ *In re PacifiCorp's 2022 ECAC*, A-21-08-004, PacifiCorp (U 901 E) Compliance Filing (Feb. 22, 2022).

1 each coal plant were not made in the preparation of this ECAC.⁷ Information on the
2 marginal fuel cost assumed for each coal plant is provided in supporting workpapers.⁸

3 **Q. Please provide the information requested in the fourth requirement.**

4 A. Regarding the fourth requirement, the Commission stated that “[r]egardless of the
5 model used, PacifiCorp has the burden of demonstrating the prudence of its NPC and
6 forecasted coal plant dispatch compared to alternative resources without
7 predetermined constraints.”⁹ Because the Company no longer utilizes GRID to
8 calculate NPC for regulatory purposes, the Company provides an Aurora run using
9 average costs to respond to the Commission’s fourth requirement. Details for this
10 Aurora run are attached as supporting workpapers.¹⁰

11 **VI. ECAC PROJECTED NPC COMPARISON**

12 **Q. Please summarize the major changes in Projected NPC between the 2022**
13 **ECAC’s projection of calendar year 2022, and this filing’s projection of calendar**
14 **year 2023.**

15 A. Confidential Table 2 below details the differences between the calendar year 2022
16 Projected NPC from the prior filing, and the calendar year 2023 Projected NPC from
17 this filing in dollars, whereas Confidential Table 3 details the differences in MWh.

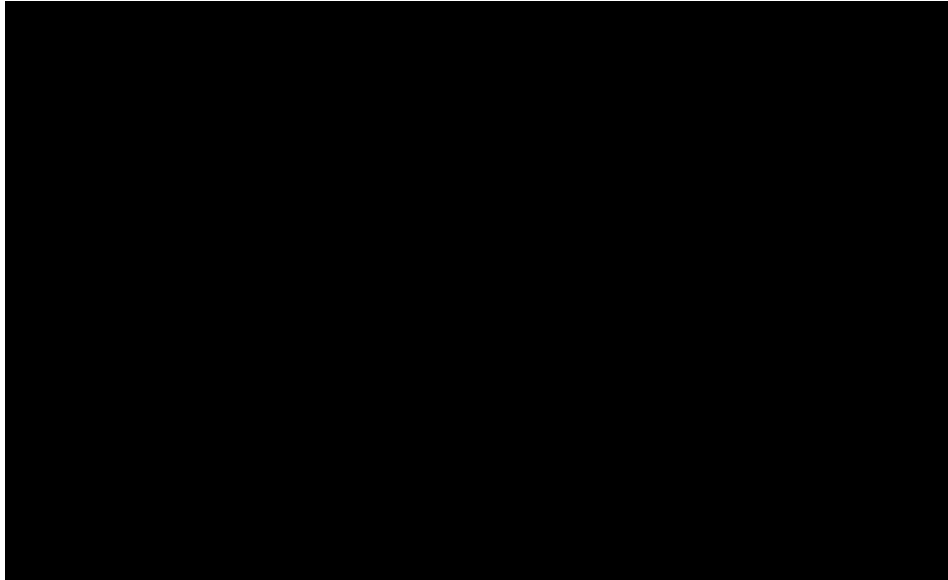
⁷ *Id.* at 2 (“Adjustments to marginal fuel cost assumed for each coal plant were not made in the preparation of the 2022 ECAC as in prior ECAC applications where GRID was used.”).

⁸ “Coal Expense Calculations HiCONF” Spreadsheet.

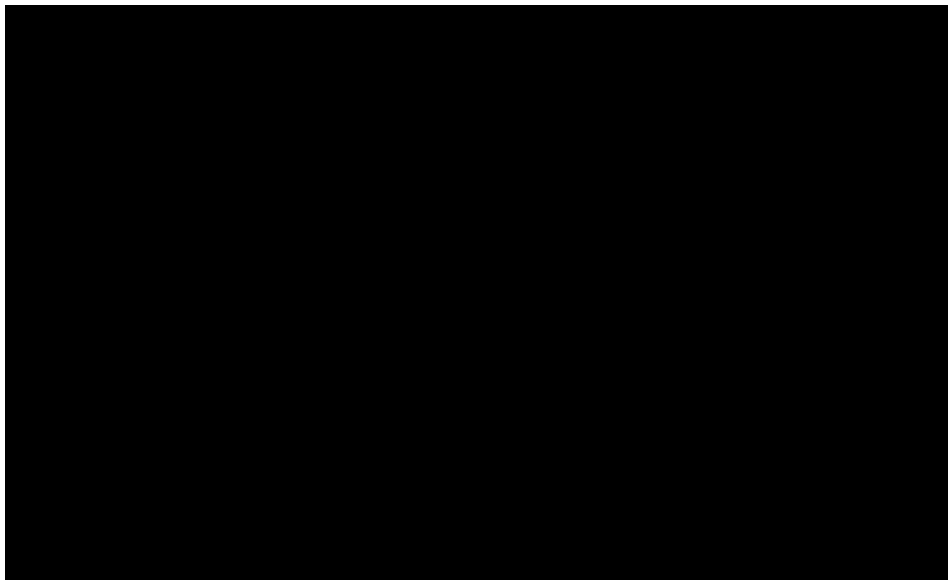
⁹ ALJ E-Mail Ruling, at 3.

¹⁰ “ECAC Avg Cost 2023 NPC CONF” Spreadsheet and “Coal Expense Calculations HiCONF” Spreadsheet.

**[Begin Confidential]
Confidential Table 2**



Confidential Table 3



[End Confidential]

1 Compared to the total-company Projected NPC in the 2022 ECAC,¹¹
2 Projected NPC in this 2023 ECAC are higher by 20.0 percent. There is an increase in

¹¹ A Commission decision regarding the Company's 2022 ECAC in A.21-08-004 is still pending

1 forecasted wholesale sales revenue of [Begin Confidential] [End
2 Confidential] (which decreases NPC), the totality of which are offset by an increase
3 in purchased power expense of approximately [Begin Confidential] [End Confidential]. Coal fuel expense and natural gas fuel expense have increased
4 by [Begin Confidential] and [End Confidential],
5 respectively. Finally, wheeling and other expenses have increased by [Begin
6 Confidential] [End Confidential]. The primary drivers of these
7 changes are increased natural gas fuel prices and associated electricity market prices;
8 however, these increases are dampened by relatively unchanged coal fuel prices that
9 result from the Company's coal supply agreements.
10

11 These dynamics are reflected in the MWh changes between 2022 and 2023,
12 where natural gas generation decreases as a result of the increased natural gas fuel
13 prices, and coal generation correspondingly increases to provide replacement energy.
14 For the remaining balance, wholesale sales decrease and purchased power increase to
15 accommodate the increase in total-company load and the slight decline in other
16 generation.

17 These comparisons on a line-by-line basis at the monthly granularity are
18 attached as Exhibit PAC/103 and the prior ECAC's 2022 forecast is attached as
19 Exhibit PAC/102.

20 **Q. What magnitude of price changes drive this increased Projected NPC?**

21 A. In this filing, when compared to the 2022 ECAC, electricity market prices have
22 increased by an annual average of [Begin Confidential] [End
23 Confidential], Natural gas generation costs have increased by [Begin Confidential]

1 [REDACTED] [End Confidential] while coal generation costs have increased by [Begin
2 Confidential] [REDACTED] [End Confidential].

3 **VII. ENERGY IMBALANCE MARKET**

4 **Q. Are the benefits from participating in the EIM with the CAISO included in this
5 ECAC?**

6 A. Yes. Participation in the EIM provides benefits to customers in the form of reduced
7 NPC. At the total-company level, while the 2021 ECAC had forecasted EIM benefits
8 of [Begin Confidential] [REDACTED] [End Confidential], the actual benefits for
9 customers were even greater at [Begin Confidential] [REDACTED] [End
10 Confidential]. In this filing, the 2022 forecasted EIM benefits are [Begin
11 Confidential] [REDACTED] [End Confidential] and the 2023 forecasted EIM
12 benefits are [Begin Confidential] [REDACTED] [Begin Confidential].

13 **Q. How does the Company calculate its actual EIM benefits?**

14 A. Using actual information from the EIM, including five- and 15-minute pricing, the
15 Company identifies the incremental resource that could have facilitated the transfer to
16 an adjacent EIM area or the CAISO in each five-minute interval. The benefit is then
17 calculated as the difference between the revenue received less the expense of
18 generation assumed to supply the transfer. In the event of an import, the benefit is
19 equal to the cost of the import minus the avoided expense of the generation that
20 would have otherwise been dispatched.

21 **Q. Does this conclude your direct testimony?**

22 A. Yes.

Application No. 22-08-____
Exhibit No. PAC/101
Witness: Ramon J. Mitchell

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA

PACIFICORP

Exhibit Accompanying Direct Testimony of
Ramon J. Mitchell
Net Power Cost Analysis—Projected 2023 NPC

August 2022

Projected 2023 NPC

Exhibit PAC/101

	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Total 2023
Special Sales For Resale													
Long Term Firm Sales	\$ 554,036	\$ 483,922	\$ 557,374	\$ 511,188	\$ 534,560	\$ 525,100	\$ 570,729	\$ 567,391	\$ 526,213	\$ 525,100	\$ 515,084	\$ 576,294	\$ 6,446,989
Black Hills	536	605	670	648	670	648	670	670	648	670	648	670	7,750
Hurricane Sale	15,478	14,746	16,009	8,357	9,773	13,111	35,803	35,734	25,487	14,235	12,004	14,235	215,987
Leaning Juniper Revenue	894,040	824,040	910,360	653,600	677,440	681,920	1,839,220	2,216,465	2,092,286	719,881	700,412	702,586	13,112,861
PSCO Sale													
Total Long Term Firm Sales	\$ 1,464,089	\$ 1,323,913	\$ 1,484,433	\$ 1,173,793	\$ 1,222,443	\$ 1,420,779	\$ 2,446,422	\$ 2,820,248	\$ 2,644,635	\$ 1,260,501	\$ 1,228,147	\$ 1,293,784	\$ 19,783,187
Total Short Term Firm Sales	\$ 43,407,574	\$ 26,870,456	\$ 20,808,000	\$ 11,751,661	\$ 14,220,232	\$ 24,540,012	\$ 40,430,587	\$ 41,662,420	\$ 51,233,247	\$ 34,442,068	\$ 32,199,240	\$ 34,706,536	\$ 376,272,054
Total Secondary Sales													
Total Special Sales For Resale	\$ 44,871,663	\$ 28,194,369	\$ 22,292,433	\$ 12,925,474	\$ 15,442,675	\$ 25,960,790	\$ 42,877,009	\$ 44,482,668	\$ 53,877,883	\$ 35,702,569	\$ 33,427,388	\$ 36,000,320	\$ 396,055,240
Purchased Power & Net Interchange													
Long Term Firm Purchases													
Cedar Springs Wind	1,348,848	1,085,201	1,032,244	1,016,035	830,825	743,881	742,782	565,980	827,498	1,090,534	1,066,343	1,341,093	11,723,272
Clear Springs Wind III	1,025,253	832,078	894,326	872,611	631,212	574,822	494,366	428,199	528,686	626,686	611,823	1,018,891	8,997,094
Cove Mountain Solar	1,833,848	1,493,129	1,493,129	1,493,129	1,493,129	1,493,129	1,493,129	1,493,129	1,493,129	1,493,129	1,493,129	1,493,129	14,931,290
Cove Mountain Solar II	183,848	193,154	338,688	366,527	421,871	453,752	440,109	418,435	357,107	287,471	206,551	169,814	3,033,283
Deseret Purchase	3,117,513	2,988,069	4,044,972	7,059,910	884,508	951,255	922,745	872,109	748,720	602,719	430,655	354,060	8,032,587
Edale Mountain - UAMPS/UIMPA	150,100	150,100	150,100	150,100	150,100	150,100	150,100	150,100	150,100	150,100	150,100	150,100	1,501,000
Gemstate	313,766	355,437	561,331	616,028	690,923	708,877	691,500	646,870	579,734	483,379	357,284	267,268	6,272,497
Horseshoe Solar	420,781	420,781	641,039	669,033	762,896	789,454	750,512	705,507	657,834	561,379	398,161	323,388	7,051,153
Hunter Solar	15,956	15,956	16,145	16,128	16,145	16,128	16,145	16,145	16,128	16,145	16,128	16,145	193,311
Hurricane Purchase	320,800	312,800	316,800	324,800	316,800	324,800	328,800	312,800	308,800	296,800	344,800	328,800	3,837,600
MegaCorp Reserves	82,708	141,477	216,779	272,858	323,654	352,579	336,975	350,779	282,304	584,848	118,394	81,245	2,814,730
Milgram Solar	3,176,700	3,176,700	3,176,700	3,176,700	3,176,700	3,176,700	3,176,700	3,176,700	3,176,700	3,176,700	3,176,700	3,176,700	31,767,000
Midwest Solar	17,167,700	17,167,700	17,167,700	17,167,700	17,167,700	17,167,700	17,167,700	17,167,700	17,167,700	17,167,700	17,167,700	17,167,700	171,677,000
Nuclear	594,150	594,150	594,150	594,150	594,150	594,150	594,150	594,150	594,150	594,150	594,150	594,150	5,941,500
Old Mill Solar	12,899	12,899	12,899	12,899	12,899	12,899	12,899	12,899	12,899	12,899	12,899	12,899	128,990
Pavant III Solar	63,645	97,125	144,022	181,280	215,160	234,197	263,740	233,048	187,556	122,808	78,658	53,977	1,975,216
PGE Cove													
Prineville Solar													
Rock River Wind													
Rocket Solar													
Sigurd Solar	308,554	346,619	509,742	556,548	639,667	703,042	653,634	599,181	559,401	453,931	319,006	287,871	5,917,296
Skysol Solar													
Small Purchases east	1,173	1,213	1,172	1,172	1,233	1,203	1,226	1,202	1,154	1,157	1,209	1,176	14,288
Small Purchases west													
Three Bales Wind	2,700,662	1,806,920	2,135,792	1,616,110	1,427,656	1,205,752	805,618	946,664	1,185,169	1,735,343	2,352,785	2,572,230	20,483,701
Top of the World Wind	5,436,528	3,612,747	4,243,888	3,269,405	2,908,093	2,401,211	1,720,693	1,871,512	2,296,328	3,513,955	4,491,128	4,872,798	40,638,275
Tri-State Purchase													
UT Solar Adjustment	(699,228)	(760,409)	(1,267,242)	(1,384,499)	(1,575,430)	(1,660,232)	(1,614,246)	(1,519,979)	(1,328,454)	(1,086,098)	(787,939)	(621,328)	(14,305,084)
Wolverine Creek Wind	779,175	910,409	1,160,283	1,067,617	806,161	866,062	686,022	652,525	770,670	848,339	966,255	990,276	10,523,795
Long Term Firm Purchases Total	\$ 19,075,552	\$ 16,128,750	\$ 18,875,955	\$ 17,365,119	\$ 16,805,426	\$ 16,285,762	\$ 15,800,212	\$ 15,405,254	\$ 15,610,596	\$ 16,957,749	\$ 17,804,702	\$ 18,531,949	\$ 204,647,025

Projected 2023 NPC

Exhibit PAC/101

	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Total 2023
Coal Fuel Burn Expense													
Cholla													
Coitrip	2,174,245	1,975,275	2,182,557	2,094,039	2,139,242	2,122,854	1,499,440	1,744,758	1,507,117	952,391	1,618,458	1,370,887	21,381,364
Craig	2,198,880	1,762,353	1,721,552	1,228,274	2,204,251	2,086,726	1,967,839	2,286,664	2,002,239	1,901,018	1,794,543	1,971,912	22,877,240
Dave Johnston	7,330,301	6,473,077	6,491,171	6,293,945	7,242,468	7,014,623	4,460,424	5,288,664	4,616,980	5,470,458	3,937,004	4,488,033	68,118,049
Hayden	1,874,623	12,768,973	10,822,533	12,953,864	13,943,320	13,866,920	10,780,353	10,045,441	10,405,441	11,233,673	8,150,013	8,751,521	10,245,524
Huntington	1,075,074	10,811,447	10,981,705	9,584,676	10,501,738	11,270,809	10,945,578	10,145,393	10,779,888	7,771,986	8,814,621	10,593,894	130,866,072
Jim Bidger	12,167,934	10,815,447	13,116,479	8,213,163	10,495,756	12,008,887	23,845,600	25,112,887	21,917,814	18,476,924	20,052,321	21,558,445	204,180,750
Jim Bidger	14,897,069	14,485,395	13,116,479	8,213,163	10,495,756	12,008,887	23,845,600	25,112,887	21,917,814	18,476,924	20,052,321	21,558,445	204,180,750
Naughton	2,948,994	2,708,260	2,402,087	2,325,465	2,093,803	2,865,732	3,355,263	3,324,569	2,931,311	2,876,373	2,386,896	2,658,442	32,257,195
Naughton	3,087,006	2,969,574	3,210,712	3,020,770	3,247,307	3,187,568	2,430,085	3,324,569	2,931,311	2,876,373	2,386,896	2,658,442	30,293,067
Wyodak													
Total Coal Fuel Burn Expense	\$ 59,505,564	\$ 54,425,685	\$ 51,308,317	\$ 45,724,422	\$ 52,318,831	\$ 55,097,834	\$ 58,740,974	\$ 61,924,843	\$ 53,963,628	\$ 51,331,168	\$ 52,155,914	\$ 53,829,389	\$ 650,326,579
Gas Fuel Burn Expense													
Chehalis													
Current Creek	15,008,276	5,853,237	4,628,231	925,900	954,700	2,532,550	7,181,013	6,736,006	7,381,445	9,801,770	7,154,205	7,937,506	76,494,841
Gaudby	6,940,125	3,345,479	6,027,127	6,867,651	4,314,248	6,783,804	7,953,785	6,198,850	5,413,349	6,222,383	8,184,247	6,613,061	74,395,091
Gaudby CT	1,383,872	913,861	785,770	490,329	620,530	884,597	1,770,469	2,120,023	1,802,051	1,135,862	1,464,253	1,886,262	15,257,880
Hayden	6,935,046	4,838,391	4,163,692	2,668,170	3,305,894	1,822,503	1,326,987	1,573,366	1,673,657	1,721,386	2,125,800	1,234,134	10,277,078
Lake Side 1	5,121,014	4,028,903	6,137,764	6,909,660	7,239,151	1,951,344	1,441,876	7,682,446	6,537,863	6,448,921	6,630,095	4,771,937	30,822,599
Lake Side 2	5,046,811	3,187,137	4,193,129	1,657,660	7,239,151	3,846,842	6,557,820	6,685,152	6,549,445	5,435,076	5,615,017	6,823,548	76,904,829
Naughton - Gas	875,497	534,862	784,954	720,508	568,483	980,043	3,065,708	3,165,085	1,726,489	1,778,534	1,971,756	4,620,761	20,772,679
Total Gas Fuel Burn Expense	\$ 41,178,162	\$ 23,673,066	\$ 27,558,708	\$ 19,954,326	\$ 17,719,586	\$ 25,083,551	\$ 36,825,023	\$ 35,244,236	\$ 31,165,749	\$ 32,818,849	\$ 34,814,236	\$ 38,326,813	\$ 365,382,304
Other Generation													
Bleck Cap Solar													
Blundell	461,755	417,069	461,755	387,279	432,185	418,243	381,550	390,298	406,476	346,843	229,062	176,392	4,508,907
Total Other Generation	\$ 461,755	\$ 417,069	\$ 461,755	\$ 387,279	\$ 432,185	\$ 418,243	\$ 381,550	\$ 390,298	\$ 406,476	\$ 346,843	\$ 229,062	\$ 176,392	\$ 4,508,907
Net Power Cost	\$ 116,715,359	\$ 113,232,882	\$ 125,876,401	\$ 119,801,499	\$ 122,410,245	\$ 123,261,822	\$ 233,167,813	\$ 235,028,830	\$ 153,359,289	\$ 127,106,128	\$ 129,259,908	\$ 153,157,648	\$ 1,752,375,823

Application No. 22-08-____
Exhibit No. PAC/102
Witness: Ramon J. Mitchell

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA

PACIFICORP

Exhibit Accompanying Direct Testimony of

Ramon J. Mitchell

Net Power Cost Analysis—Prior ECAC's Projected 2022 NPC

August 2022

Prior ECAC's Projected 2022 NPC

Exhibit PAC/102

	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Total 2022
Special Sales For Resale													
Long Term Firm Sales	\$ 684,840	\$ 651,124	\$ 715,551	\$ 463,545	\$ 406,679	\$ 605,206	\$ 733,040	\$ 701,878	\$ 674,345	\$ 684,072	\$ 695,621	\$ 734,640	\$ 7,750,540
Black Hills	540	540	540	540	540	540	540	540	540	540	540	540	6,475
Hurricane Sale	8,068	7,801	9,462	4,912	3,927	6,910	17,829	20,473	14,692	8,897	6,870	7,937	117,580
Leaning Juniper Revenue													
Total Long Term Firm Sales	\$ 693,448	\$ 659,264	\$ 725,552	\$ 468,997	\$ 411,145	\$ 612,656	\$ 751,409	\$ 722,891	\$ 689,576	\$ 693,508	\$ 703,030	\$ 743,117	\$ 7,874,595
Total Short Term Firm Sales	\$ 34,565,394	\$ 21,049,559	\$ 25,445,540	\$ 14,920,294	\$ 14,509,669	\$ 20,741,744	\$ 31,185,816	\$ 36,713,145	\$ 33,215,983	\$ 25,401,937	\$ 20,735,335	\$ 17,930,656	\$ 296,415,082
Total Secondary Sales													
Total Special Sales For Resale	\$ 35,258,832	\$ 21,708,823	\$ 26,171,092	\$ 15,389,292	\$ 14,920,814	\$ 21,354,399	\$ 31,937,225	\$ 37,436,037	\$ 33,905,559	\$ 26,095,446	\$ 21,438,365	\$ 18,673,773	\$ 304,289,657
Purchased Power & Net Interchange													
Long Term Firm Purchases													
Cedar Springs Wind	692,182	561,346	1,060,660	1,026,445	1,060,660	1,026,445	1,060,660	1,060,660	1,026,445	1,060,660	1,026,445	1,060,660	11,723,272
Combine Hills Wind	525,964	426,547	805,958	779,959	805,958	779,959	805,958	805,958	779,959	805,958	779,959	805,958	8,906,084
Cove Mountain Solar I	182,690	192,236	383,278	383,278	423,554	451,522	439,182	391,316	365,936	383,278	365,936	391,316	3,933,295
Cove Mountain Solar II	459,099	481,268	838,933	913,283	1,051,186	1,130,512	1,056,629	1,037,639	889,810	719,297	511,782	420,758	9,546,214
Deseret Purchase	2,840,098	2,915,128	2,727,553	2,521,220	2,533,278	2,599,890	3,059,829	3,059,829	3,027,673	3,012,935	2,668,076	2,901,730	33,886,237
Eagle Mountain - UAMPS/UMPA	176,341	157,638	141,030										475,008
Gemstate	143,152	143,152	143,152	143,152	143,152	143,152	143,152	143,152	143,152	143,152	143,152	143,152	1,717,824
Graphite Solar	315,660	357,582	564,720	619,746	695,093	713,256	695,674	650,775	583,233	486,297	359,441	268,882	6,310,359
Horseshoe Solar							649,761	615,683	512,127	411,472	254,320	201,944	2,645,307
Hunter Solar	373,043	422,807	644,277	672,412	766,749	793,441	754,302	709,070	661,156	564,215	400,171	325,021	7,086,765
Hurricane Purchase	14,960	14,960	14,960	14,960	14,960	14,960	14,960	14,960	14,960	14,960	14,960	14,960	179,516
MagCorp Reserves	372,930	368,920	372,930	376,940	376,940	372,930	372,930	372,930	344,860	364,910	372,930	364,910	4,438,070
Milican Solar	90,121	137,530	210,849	285,395	314,895	348,866	366,117	341,184	274,552	179,782	115,156	78,022	2,737,608
Milford Solar	855,955	409,807	604,638	672,546	590,680	633,499	742,389	774,697	666,681	537,688	381,173	306,225	7,026,220
Montanto Reserves	1,696,967	1,696,967	1,696,967	1,696,967	1,696,967	1,696,967	1,696,967	1,696,967	1,696,967	1,696,967	1,696,967	1,696,967	20,166,800
Old Mill Solar	594,150	594,150	594,150	594,150	594,150	594,150	594,150	594,150	594,150	594,150	594,150	594,150	7,129,800
Pavant III Solar													
PGE Cove	12,899	12,899	12,899	12,899	12,899	12,899	12,899	12,899	12,899	12,899	12,899	12,899	154,785
Prineville Solar	61,904	94,469	140,083	176,321	209,274	227,791	256,526	226,673	182,425	119,449	76,506	52,500	1,823,922
Rock River Wind													
Rocket Solar													
Sigurd Solar	311,118	347,365	512,316	559,359	642,898	706,593	656,935	602,207	562,226	456,223	285,513	211,145	480,149
Small Purchases east	1,172	1,172	1,172	1,172	1,233	1,203	1,226	1,202	1,153	1,157	1,209	1,176	14,288
Small Purchases west													
Soda Lake Geothermal													
Three Buttes Wind	2,700,652	1,806,520	2,141,628	1,608,251	1,428,678	1,205,304	804,645	650,802	1,185,464	1,741,136	2,346,698	2,701,069	20,713,516
Tripoli Wind	3,436,328	3,012,147	4,445,793	3,266,227	2,910,525	2,396,943	1,791,897	1,873,236	2,286,246	3,513,349	4,466,125	4,896,037	40,863,334
Tri-State Purchase													
UT Solar Adjustment	(541,029)	(605,122)	(1,169,630)	(1,299,093)	(1,513,549)	(1,550,024)	(2,014,881)	(2,014,881)	(1,693,248)	(1,394,180)	(1,147,788)	(669,353)	(15,944,747)
Wolverine Creek Wind	769,735	899,379	1,146,015	1,054,117	799,595	851,108	677,648	647,369	760,687	840,892	971,473	970,371	10,388,378
Long Term Firm Purchases Total	\$ 18,028,933	\$ 15,464,424	\$ 18,321,953	\$ 16,574,542	\$ 16,206,893	\$ 15,728,025	\$ 14,924,382	\$ 14,869,393	\$ 15,217,295	\$ 16,541,026	\$ 17,325,488	\$ 18,154,849	\$ 197,407,203

Exhibit PAC/102

Prior ECAC's Projected 2022 NPC

	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Total 2022
Qualifying Facilities													
OF California	\$ 162,633	\$ 172,651	\$ 205,751	\$ 212,594	\$ 193,211	\$ 159,232	\$ 134,854	\$ 130,374	\$ 123,448	\$ 127,844	\$ 126,171	\$ 146,640	\$ 1,895,406
OF Idaho	522,317	485,716	524,279	455,588	489,276	616,519	646,699	575,846	527,267	553,523	526,156	613,053	6,536,240
OF Oregon	2,965,364	2,985,364	3,999,426	1,027,603	5,369,988	5,989,881	5,980,713	5,334,306	4,531,951	3,459,597	2,367,892	2,265,499	49,999,870
OF Utah	848,618	885,366	1,036,273	1,100,403	1,208,104	1,208,104	1,145,332	1,137,818	1,069,438	1,017,171	886,403	815,062	12,406,398
OF Washington				5,769	20,936	50,664	56,972	52,942	25,045	2,894	6,510	10,449	214,001
OF Wyoming	10,075	8,452	10,106		19,638	19,638	19,638	19,638	19,638	19,638	19,638	19,638	196,380
Bl Power One OF	1,267,643	1,228,118	1,367,364	1,474,448	983,426	478,188	1,470,267	1,467,176	1,399,890	1,498,754	1,431,020	829,096	14,853,895
DCFP OF	4,070	4,892	3,802	2,538	2,994	5,684	21,446	1,501,220	28,479	10,800	5,245	5,055	126,149
Enterprise Solar I OF	614,859	748,994	974,310	1,027,272	1,245,638	1,374,505	1,524,913	1,501,220	1,172,076	949,200	700,538	541,066	12,453,598
Escalante 1 Solar OF	562,807	675,596	877,224	1,006,684	1,179,056	1,296,566	1,369,586	1,386,489	1,086,234	867,742	639,811	504,107	11,488,271
Escalante 2 Solar OF	528,800	634,303	826,459	946,736	1,115,939	1,229,322	1,329,310	1,299,965	1,023,737	813,742	598,232	468,523	10,813,068
Escalante 3 Solar OF	515,134	620,061	802,066	921,520	1,088,676	1,197,100	1,293,956	1,264,776	995,093	744,863	548,273	431,094	10,422,610
ExxonMobil OF													
Five Pine Wind OF	533,030	876,180	791,676	830,964	507,541	559,614	664,263	614,829	777,853	769,372	905,957	907,876	8,738,655
Granite Mountain East Solar OF	546,621	611,857	690,164	982,955	1,148,321	1,250,346	1,322,763	1,258,482	971,017	804,688	675,589	463,888	10,828,670
Granite Mountain West Solar OF	361,832	405,541	590,326	651,030	760,411	827,011	874,938	831,680	642,114	531,914	381,950	306,628	7,164,975
Iron Springs OF	632,002	688,831	891,849	1,009,544	1,120,621	1,275,729	1,327,770	1,315,306	997,925	810,834	574,379	485,857	11,110,648
Jatiga Wind OF 1 OF	1,097,467	1,199,839	1,824,919	1,977,669	2,574,016	2,907,566	3,250,686	3,250,686	2,626,885	2,159,309	1,759,391	1,267,201	9,925,394
Jatiga Wind OF 2 OF	2,038,828	1,932,925	2,486,889	2,697,925	3,597,889	4,097,889	4,607,889	4,607,889	3,597,889	2,697,925	1,932,925	1,267,201	13,965,518
North Point Wind OF	1,119,374	1,857,863	1,762,544	1,863,861	1,311,008	1,298,924	1,538,828	1,523,257	1,848,717	1,787,346	1,924,728	1,878,455	19,534,795
Oregon Wind Farm OF	964,976	1,121,453	1,121,079	1,303,960	1,245,235	1,245,980	1,240,389	1,116,721	925,235	731,688	795,437	1,020,462	12,432,632
Pavant II Solar OF	201,314	255,660	379,339	434,447	514,699	570,761	649,719	654,766	487,627	364,198	240,997	196,180	4,949,705
Pioneer Wind 1 OF	1,307,719	925,060	1,302,648	1,021,708	676,800	737,081	856,229	825,193	541,890	866,588	1,349,151	1,085,602	11,495,689
Power County North Wind OF	431,502	570,443	549,212	536,482	373,560	386,891	386,891	379,427	392,483	533,545	543,645	627,035	5,688,769
Power County South Wind OF	381,111	502,335	496,004	498,085	323,108	325,843	342,613	353,588	347,429	487,178	490,511	543,731	5,071,546
Resebring Dillard OF	44,544	51,457	27,164	104,994	107,166	90,980	245,085	171,264	73,254	75,375	76,026	64,172	1,130,561
Sage I Solar OF	80,192	79,413	189,005	204,759	233,577	261,123	333,738	333,817	207,267	154,769	104,237	74,940	2,256,888
Sage II Solar OF	80,277	79,507	189,005	204,759	233,577	261,123	333,738	333,817	207,267	154,769	104,237	74,940	2,256,888
Sage III Solar OF	67,588	66,161	153,107	166,890	191,458	215,276	274,397	274,397	171,079	128,634	104,366	75,010	1,659,270
Spanish Fork Wind 2 OF	2,381,788	2,222,145	2,548,914	2,217,926	2,795,182	2,807,574	3,015,989	3,036,249	2,762,079	2,473,647	2,766,511	2,657,891	31,576,874
Swabshole Solar OF	371,747	371,747	568,484	683,975	897,848	807,679	1,106,980	1,038,167	809,399	623,027	297,691	201,503	7,734,666
Tesoro OF	55,044	40,823	32,699	22,874	82,626	98,268	12,237	9,312	10,912	12,344	12,344	56,885	315,834
Three Peaks Solar OF	412,887	472,797	625,440	830,263	853,852	908,370	1,029,086	1,000,023	790,900	669,141	442,886	370,096	8,405,732
Thremble Canyon Wind OF	241,761	277,105	474,572	555,307	656,455	732,080	849,723	809,453	675,540	507,862	322,448	266,427	6,368,732
Utah Pavant Solar OF	484,702	615,593	784,787	1,023,184	1,185,775	1,224,261	1,478,356	1,442,811	1,301,276	803,875	586,211	461,634	11,392,463
Qualifying Facilities Total	\$ 22,806,832	\$ 24,081,715	\$ 28,578,260	\$ 30,224,434	\$ 30,038,075	\$ 31,622,272	\$ 34,642,439	\$ 33,483,558	\$ 29,097,599	\$ 26,064,433	\$ 23,728,127	\$ 22,045,618	\$ 336,413,361
Mid-Columbia Contracts													
Grant - Priest Rapids	\$ 184,760	\$ 184,760	\$ 184,760	\$ 184,760	\$ 184,760	\$ 184,760	\$ 184,760	\$ 184,760	\$ 184,760	\$ 184,760	\$ 184,760	\$ 184,760	\$ 2,217,125
Grant - Rosemeade	(79,720)	(79,720)	(79,720)	(79,720)	(79,720)	(79,720)	(79,720)	(79,720)	(79,720)	(79,720)	(79,720)	(79,720)	(856,659)
Grant Surplus													
Mid-Columbia Contracts Total	\$ 105,040	\$ 105,040	\$ 105,040	\$ 105,040	\$ 105,040	\$ 105,040	\$ 105,040	\$ 105,040	\$ 105,040	\$ 105,040	\$ 105,040	\$ 105,040	\$ 1,260,466
Total Long Term Firm Purchases	\$ 40,940,806	\$ 39,671,179	\$ 47,005,253	\$ 46,904,016	\$ 46,350,008	\$ 47,455,337	\$ 49,671,861	\$ 48,487,981	\$ 44,419,934	\$ 42,710,499	\$ 41,158,656	\$ 40,305,508	\$ 535,081,050
Storage & Exchange													
APS Exchange													
Cowitz-Swift													
PSCo Exchange													
SCL State Line													
Total Storage & Exchange	\$ 450,000	\$ 450,000	\$ 450,000	\$ 450,000	\$ 450,000	\$ 450,000	\$ 450,000	\$ 450,000	\$ 450,000	\$ 450,000	\$ 450,000	\$ 450,000	\$ 4,500,000
Total Short Term Firm Purchases	\$ 14,207,168	\$ 11,297,536	\$ 15,244,811	\$ 1,475,235	\$ 11,367,923	\$ 18,259,063	\$ 40,294,181	\$ 40,527,382	\$ 20,075,416	\$ 11,110,339	\$ 10,455,965	\$ 17,472,291	\$ 211,766,311
Total Secondary Purchases													
Total Purchased Power & Net Interchange	\$ 55,597,974	\$ 51,418,716	\$ 62,700,064	\$ 48,829,251	\$ 58,167,932	\$ 66,163,400	\$ 90,416,042	\$ 89,465,374	\$ 64,945,351	\$ 54,270,839	\$ 51,594,620	\$ 57,777,799	\$ 751,347,361
Wheeling & U. of F. Expense													
Firm Wheeling	\$ 13,473,441	\$ 13,255,570	\$ 13,526,678	\$ 13,310,416	\$ 12,006,585	\$ 12,846,394	\$ 13,470,943	\$ 13,547,418	\$ 12,582,964	\$ 13,005,692	\$ 12,789,218	\$ 13,456,081	\$ 157,246,382
Non-Firm Wheeling													
Total Wheeling & U. of F. Expense	\$ 13,473,441	\$ 13,255,570	\$ 13,526,678	\$ 13,310,416	\$ 12,006,585	\$ 12,846,394	\$ 13,470,943	\$ 13,547,418	\$ 12,582,964	\$ 13,005,692	\$ 12,789,218	\$ 13,456,081	\$ 157,246,382

Exhibit PAC/102

Prior ECAC's Projected 2022 NPC

	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Total 2022
Coal Fuel Burn Expense													
Cholla													
Colstrip	1,924,390	1,737,016	1,898,331	1,745,153	1,256,369	1,270,072	1,450,999	1,585,851	1,418,210	909,088	1,000,147	1,325,256	17,520,880
Craig	1,974,429	1,681,051	1,791,507	1,426,516	787,302	946,517	1,211,393	1,709,632	1,680,151	1,510,473	951,764	954,090	16,622,724
Dave Johnston	6,244,227	5,800,913	5,313,272	5,925,294	4,857,026	3,446,268	3,543,208	4,341,387	3,973,537	4,115,342	3,516,487	4,177,866	55,353,308
Hayden	1,146,680	962,155	1,016,610	891,328	1,186,979	726,940	1,197,792	1,014,662	734,955	1,054,744	887,664	840,460	12,163,468
Hunter	1,746,516	1,474,516	1,474,516	1,474,516	1,474,516	1,474,516	1,474,516	1,474,516	1,474,516	1,474,516	1,474,516	1,474,516	14,745,160
Hurdon	12,164,096	9,832,927	9,988,515	6,169,200	5,068,439	7,029,722	9,928,236	9,696,512	8,201,303	7,651,738	8,617,774	10,718,273	104,504,990
Jim Bridger	12,782,905	13,790,009	12,920,590	11,034,165	11,481,792	15,686,919	21,327,116	21,244,615	18,003,981	18,310,183	17,965,605	18,160,501	192,616,372
Naughton	3,045,518	2,284,803	2,237,301	1,604,055	1,426,768	1,716,995	2,977,599	2,909,323	2,624,272	2,490,899	2,278,064	2,688,147	28,293,745
Wyodak	2,397,595	2,366,654	2,559,800	2,536,006	2,674,092	1,971,847	2,525,610	2,444,262	2,230,813	2,196,131	1,532,725	1,245,325	26,702,259
Total Coal Fuel Burn Expense	\$ 56,220,230	\$ 50,100,897	\$ 47,863,782	\$ 36,289,277	\$ 36,428,416	\$ 41,046,699	\$ 54,062,455	\$ 64,893,127	\$ 48,921,193	\$ 47,893,161	\$ 47,555,668	\$ 51,037,040	\$ 572,510,944
Gas Fuel Burn Expense													
Chetals													
Current Creek	7,359,642	3,071,017	1,101,710	5,194,097	3,104,944	2,546,232	4,771,113	4,410,756	4,690,778	5,910,531	4,939,573	5,511,283	52,611,675
Gadsby	6,157,677	6,566,264	1,015,982	4,113,328	3,734,811	5,150,549	6,328,128	4,466,604	4,254,643	5,107,662	6,643,809	4,823,419	58,362,884
Gadsby CT	585,035	423,919	289,139	226,982	267,842	580,666	1,031,781	1,205,189	972,013	651,814	639,440	1,127,529	8,065,780
Hunter	335,442	349,419	326,591	2,027,669	1,571,145	386,368	2,697,672	2,091,064	2,561,016	827,991	1,961,091	931,065	2,859,095
Lake Side 1	4,174,516	4,970,008	6,415,801	5,913,563	3,909,059	4,199,110	6,929,215	7,004,352	6,013,533	6,266,860	6,186,220	5,295,775	69,868,552
Lake Side 2	4,388,985	2,678,923	1,460,985	1,114,459	2,653,428	3,444,266	4,179,974	4,333,352	3,930,813	4,326,580	4,289,185	5,419,826	41,621,239
Naughton - Gas	866,288	760,359	243,996	292,817	590,074	916,775	2,192,451	2,140,542	1,325,374	1,556,842	1,104,889	2,744,006	14,763,793
Total Gas Fuel Burn Expense	\$ 30,056,572	\$ 21,816,958	\$ 14,200,664	\$ 18,928,956	\$ 14,887,337	\$ 17,825,397	\$ 28,568,623	\$ 26,442,340	\$ 24,113,062	\$ 26,063,392	\$ 28,283,742	\$ 28,264,575	\$ 277,453,618
Other Generation													
Black Cap Solar													
Blundell	666,076	601,617	601,617	603,311	614,861	579,403	554,672	576,700	589,628	565,218	338,058	374,256	6,685,418
Total Other Generation	\$ 666,076	\$ 601,617	\$ 601,617	\$ 603,311	\$ 614,861	\$ 579,403	\$ 554,672	\$ 576,700	\$ 589,628	\$ 565,218	\$ 338,058	\$ 374,256	\$ 6,685,418
Net Power Cost	\$ 120,757,460	\$ 115,484,935	\$ 112,721,712	\$ 102,571,919	\$ 107,884,318	\$ 117,102,895	\$ 155,135,510	\$ 147,898,923	\$ 117,226,638	\$ 115,822,856	\$ 117,122,942	\$ 132,235,968	\$ 1,480,956,065

Application No. 22-08-____
Exhibit No. PAC/103
Witness: Ramon J. Mitchell

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA

PACIFICORP

REDACTED

Exhibit Accompanying Direct Testimony of

Ramon J. Mitchell

Net Power Cost Analysis—Projected NPC Comparison to Prior ECAC

August 2022

Confidential Exhibit PAC/103
 PacifiCorp
 Projected NPC Comparison to Prior ECAC

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Special Sales For Resale													
Long Term Firm Sales													
Black Hills	\$ (130,804)	\$ (167,202)	\$ (158,177)	\$ 47,643	\$ 127,881	\$ (80,106)	\$ (162,311)	\$ (134,488)	\$ (148,132)	\$ (158,972)	\$ (180,537)	\$ (158,346)	\$ (1,305,551)
Hurricane Sale	(4)	65	130	108	130	108	130	108	108	130	108	130	1,275
Leaning Juniper Revenue	7,410	7,145	6,547	3,444	5,846	6,200	17,974	15,260	10,794	5,954	5,134	6,298	98,006
PSCo Sale	894,040	824,640	910,380	653,600	677,440	881,920	1,839,220	2,216,455	2,092,288	718,881	700,412	702,586	13,112,881
Total Long Term Firm Sales	\$ 770,641	\$ 664,649	\$ 758,881	\$ 704,795	\$ 811,287	\$ 808,123	\$ 1,695,913	\$ 2,097,357	\$ 1,955,059	\$ 566,993	\$ 525,117	\$ 550,667	\$ 11,908,592
Total Short Term Firm Sales	\$ 8,842,189	\$ 5,620,897	\$ (4,637,540)	\$ (3,168,613)	\$ (289,437)	\$ 3,798,268	\$ 9,244,772	\$ 4,949,274	\$ 18,017,265	\$ 9,040,130	\$ 11,463,906	\$ 16,775,879	\$ 79,859,992
Total Secondary Sales	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Special Sales For Resale	\$ 9,612,831	\$ 6,485,546	\$ (3,878,659)	\$ (2,463,817)	\$ 521,851	\$ 4,606,391	\$ 10,939,785	\$ 7,046,631	\$ 19,972,324	\$ 9,607,124	\$ 11,989,023	\$ 17,326,547	\$ 91,765,583
Purchased Power & Net Interchange													
Long Term Firm Purchases													
Cedar Springs Wind	\$ 656,866	\$ 533,855	\$ (28,417)	\$ (10,411)	\$ (229,835)	\$ (282,565)	\$ (317,878)	\$ (474,671)	\$ (198,948)	\$ 28,874	\$ 41,897	\$ 280,432	\$ (0)
Cedar Springs Wind III	499,329	405,521	13,134	13,187	174,686	(214,612)	(241,592)	(360,758)	(151,130)	22,711	31,864	212,923	(0)
Combine Hills Wind	9,536	11,951	(1,346)	(1,465)	(1,686)	9,850	13,935	7,841	10,603	(1,149)	(626)	(148,482)	(25,522)
Cove Mountain Solar	(735)	(772)	(133,023)	(144,812)	(166,878)	(1,814)	(1,759)	(1,665)	(1,427)	(113,577)	(61,127)	(66,696)	(15,322)
Cove Mountain Solar II	(72,637)	(76,314)	(133,023)	(144,812)	(166,878)	(1,814)	(1,759)	(1,665)	(1,427)	(113,577)	(61,127)	(66,696)	(15,322)
East Mountain - UAMPS/UMPA	27,945	7,763	(41,030)	245,846	256,371	36,353	62,465	82,465	81,579	128,358	376,757	213,030	2,425,098
East Mountain - UAMPS/UMPA	(176,341)	(157,838)	(141,030)	(411,030)	(411,030)	(411,030)	(411,030)	(411,030)	(411,030)	(411,030)	(411,030)	(411,030)	(4,110,300)
Gemstate Solar	6,948	6,948	6,948	6,948	6,948	6,948	6,948	6,948	6,948	6,948	6,948	6,948	(517,024)
Horseshoe Solar	(1,894)	(2,145)	(3,388)	(3,718)	(4,171)	(4,280)	(4,174)	(3,905)	(3,499)	(2,918)	(2,157)	(1,613)	(37,862)
Hunter Solar	(1,877)	(2,125)	(3,238)	(3,379)	(3,853)	(3,987)	(3,790)	(3,563)	(3,222)	(2,835)	(2,011)	(1,633)	(2,645,307)
Hurricane Purchase	8,975	1,034	1,185	1,168	1,185	1,168	1,185	1,168	1,185	1,168	1,185	1,185	13,784
MagCorp Reserves	(92,130)	(56,120)	(66,130)	(52,140)	(60,140)	(52,140)	(44,130)	(36,060)	(28,030)	(28,030)	(28,030)	(28,030)	(601,470)
Millican Solar	2,897	3,948	5,930	7,464	8,859	9,642	10,659	7,722	5,056	3,239	2,222	2,222	77,122
Milford Solar	(2,881)	(3,087)	(4,554)	(5,065)	(5,955)	(6,278)	(5,991)	(5,382)	(4,049)	(2,946)	(2,946)	(2,307)	(52,916)
Monsanto Reserves	50,033	50,033	50,033	50,033	50,033	50,033	50,033	50,033	50,033	50,033	50,033	50,033	600,400
Nucor	-	-	-	-	-	-	-	-	-	-	-	-	-
Old Mill Solar	-	-	-	-	-	-	-	-	-	-	-	-	-
PacifiCorp Solar	-	-	-	-	-	-	-	-	-	-	-	-	-
PEE Cave	-	-	-	-	-	-	-	-	-	-	-	-	-
Prineville Solar	1,741	2,657	3,940	4,959	5,885	6,406	7,214	6,375	5,130	3,359	2,152	1,476	51,294
Rock River Wind	-	-	-	-	-	-	-	-	-	-	-	-	-
Rocket Solar	(1,563)	(1,746)	(2,574)	(2,811)	(3,231)	(3,551)	(3,301)	(3,026)	(2,825)	(13,491)	(255,513)	(211,145)	(480,149)
Sigurd Solar	-	-	688,731	756,489	984,767	1,278,104	1,603,572	1,841,676	1,061,102	626,170	344,706	317,083	(29,885)
Skysol Solar	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	9,192,400
Small Purchases east	-	-	-	-	-	-	-	-	-	-	-	-	-
Small Purchases west	-	-	-	-	-	-	-	-	-	-	-	-	-
Soda Lake Geothermal	-	-	(5,836)	6,868	(1,022)	448	775	(1,138)	(294)	(6,854)	6,087	(128,815)	(128,815)
Three Buttes Wind	-	-	(1,845)	3,178	(2,432)	2,368	826	(1,787)	82	(5,394)	5,003	(25,258)	(25,258)
Top of the World Wind	-	-	-	-	-	-	-	-	-	-	-	-	-
Ut State Purchase	(158,199)	(155,288)	(97,611)	(85,406)	(61,881)	(110,208)	535,603	491,902	384,795	308,082	359,848	248,024	1,639,683
Ut State Purchase	9,441	11,031	14,269	13,500	6,576	14,954	8,374	5,156	9,983	7,447	14,782	19,905	138,417
Wolverine Creek Wind	-	-	-	-	-	-	-	-	-	-	-	-	-
Long Term Firm Purchases Total	\$ 1,046,619	\$ 644,326	\$ 554,003	\$ 790,577	\$ 598,533	\$ 557,737	\$ 875,630	\$ 505,862	\$ 393,301	\$ 416,723	\$ 479,214	\$ 377,100	\$ 7,239,823

Projected NPC Comparison to Prior ECAC Confidential Exhibit PAC/103

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Qualifying Facilities													
QF California	\$ 4,865	\$ 4,979	\$ 5,845	\$ 2,926	\$ 8,375	\$ 4,702	\$ 4,184	\$ 4,032	\$ 3,657	\$ 3,987	\$ 3,930	\$ 2,375	\$ 54,057
QF Idaho	108,104	135,314	145,354	218,575	211,474	61,294	87,170	92,062	87,295	94,112	130,364	167,069	1,538,187
QF Oregon	(518,113)	(312,554)	(31,298)	(305,070)	(347,400)	(348,328)	(397,114)	(406,000)	(422,023)	(447,011)	(572,229)	(628,255)	(4,526,138)
QF Utah	3,995	6,528	22,573	5,226	7,950	7,622	3,851	9,201	(4,223)	(4,287)	(5,728)	(6,182)	56,895
QF Washington				(649)	(2,338)	1,153	1,191	572		(541)			10,682
QF Wyoming	(1,894)	269	2,025	(1,266)	(2,388)	(1,266)	(1,266)	(1,266)					4,556
Battle Mountain QF	312,051	95,402	137,541	31,138	636,191	323,219	54,662	116,607	138,054	64,856	152,183	32,974	2,094,798
DCFP QF	(4,070)	(4,892)	(3,892)	(2,881)	(2,994)	(5,084)	(21,448)	(30,755)	(28,479)	(30,755)	(5,245)	(5,055)	(10,800)
Enterprise Solar QF	721,939	517,365	376,553	270,661	395,558	320,960	508,284	482,412	345,185	345,185	619,256	648,358	5,571,163
Escalante 1 Solar QF	698,745	611,945	517,176	458,643	547,587	251,797	679,129	655,130	543,561	521,684	747,056	6,800,046	6,800,046
Escalante 2 Solar QF	672,707	596,498	492,214	447,220	595,771	387,238	650,465	524,200	507,569	524,200	635,790	721,728	6,801,641
Escalante 3 Solar QF	695,989	581,889	479,263	437,996	516,282	(452,126)	616,261	627,473	512,446	465,107	584,850	668,507	5,723,938
ExxonMobil QF													
Five Pine Wind QF	21,832	30,767	24,675	20,403	8,353	25,040	(5,069)	25,483	31,073	21,894	41,835	280,687	280,687
Granite Mountain East Solar QF	818,448	704,047	537,444	476,514	520,826	502,718	754,061	628,181	549,984	508,754	660,523	768,098	7,420,586
Granite Mountain West Solar QF	545,356	466,889	355,417	310,525	345,470	333,431	501,445	359,874	363,956	798,356	213,473	4,377,388	4,377,388
Iron Springs QF	763,723	681,264	574,041	488,933	595,408	523,963	794,689	739,851	598,703	529,061	373,358	733,741	7,395,046
Laligo Wind QF	7,194	(1,550)	(1,400)	(1,266)	(1,048)	(6,245)	(4,307)	(4,307)	(4,421)	(7,232)	(6,195)	(8,998)	(8,998)
Mountain Wind 1 QF	1,750	2,234	(4,944)	(1,743)	12,723	5,483	(35,733)	24,351	(9,177)	(9,542)	(18,416)	(109,208)	(138,021)
Mountain Wind 2 QF	5,890	2,234	(4,944)	(1,743)	12,723	5,483	(35,733)	24,351	(9,177)	(9,542)	(18,416)	(109,208)	(138,021)
North Point Wind QF	45,257	66,673	55,121	47,523	22,729	54,818	(2,630)	63,571	73,072	52,408	73,709	86,243	639,966
Oregon Wind Farm QF	(5,654)	(6,732)	(9,590)	(1,143)	(5,063)	(22,314)	4,406	(5,107)	3,951	7,310	(45,082)	(19,996)	(63,000)
Pioneer II Solar QF	357,277	292,204	221,807	219,298	203,909	174,965	304,750	304,593	159,505	182,043	326,877	348,552	3,065,800
Pioneer Wind 1 QF	(10,669)	(6,806)	(15,756)	(2,281)	7,081	(2,257)	(1,904)	(1,904)	303	(2,257)	(4,312)	(30,337)	(68,849)
Power County North Wind QF	17,874	20,268	19,092	23,877	6,977	17,550	1,236	11,425	16,336	14,840	24,028	35,052	208,556
Power County South Wind QF	15,730	17,676	17,086	22,630	4,731	15,854	(74)	10,402	14,664	12,707	21,966	31,279	184,651
Roseburg Dillard QF	14,500	79,099	38,441	(1,564)	22,023	(12,018)	(1,063)	14,623	16,133	11,720	34,737	45,493	262,126
Sage I Solar QF	(488)	(485)	(1,143)	(1,721)	(524)	(1,987)	(2,025)	(2,025)	(948)	(948)	(637)	(592)	(13,435)
Sage II Solar QF	(488)	(485)	(1,143)	(1,720)	(522)	(1,989)	(2,027)	(2,027)	(949)	(949)	(638)	(592)	(13,443)
Sage III Solar QF	(411)	(400)	(950)	(1,389)	(435)	(1,297)	(1,651)	(1,651)	(794)	(794)	(538)	(505)	(11,069)
Spanish Springs Wind 2 QF	209,853	141,618	116,435	74,900	23,495	252,582	71,906	36,632	1,044	1,044	(2,766,511)	(2,567,280)	(9,836,393)
Sweetwater Solar QF	(2,074)	(2,890)	(4,537)	(7,477)	(3,818)	(7,887)	(1,908)	(8,358)	(6,529)	(5,026)	(2,382)	(3,044)	(62,297)
Treco QF	23,369	17,314	13,840	3,807	5,057	1,756	(3,773)	9,089	(1,225)	(1,526)	5,767	13,044	83,021
Tree Peaks Solar QF	649,219	562,990	531,988	367,807	467,960	258,476	433,270	434,253	354,604	335,510	544,368	614,444	5,394,056
Treemile Canyon Wind QF	648,705	480,736	429,724	391,150	512,025	452,934	617,741	643,496	471,890	496,884	584,447	581,692	6,310,425
Utah Parant Solar QF	763,229	730,991	750,664	571,919	711,290	588,116	917,934	807,428	939,851	641,552	876,871	743,619	9,133,366
Utah Red Hills Solar QF	\$ 7,587,604	\$ 6,511,727	\$ 5,507,791	\$ 4,569,107	\$ 5,986,646	\$ 3,706,965	\$ 6,546,891	\$ 6,396,022	\$ 2,473,730	\$ 1,943,505	\$ 3,381,920	\$ 4,250,104	\$ 58,842,012
Mid-Columbia Contracts													
Grant Priest Rapids	\$ (184,760)	\$ (184,760)	\$ (184,760)	\$ (184,760)	\$ (184,760)	\$ (184,760)	\$ (184,760)	\$ (184,760)	\$ (184,760)	\$ (184,760)	\$ (184,760)	\$ (184,760)	\$ (2,317,125)
Grant Resonade	193,400	193,400	193,400	193,400	193,400	193,400	193,400	193,400	193,400	193,400	193,400	193,400	2,320,800
Grant Surplus	193,400	193,400	193,400	193,400	193,400	193,400	193,400	193,400	193,400	193,400	193,400	193,400	2,320,800
Mid-Columbia Contracts Total	\$ 88,360	\$ 88,360	\$ 88,360	\$ 88,360	\$ 88,360	\$ 88,360	\$ 88,360	\$ 88,360	\$ 88,360	\$ 88,360	\$ 88,360	\$ 88,360	\$ 1,060,314
Total Long Term Firm Purchases	\$ 8,722,682	\$ 7,244,412	\$ 6,150,154	\$ 5,446,043	\$ 6,673,539	\$ 4,353,061	\$ 7,511,080	\$ 6,890,243	\$ 2,965,380	\$ 2,448,588	\$ 3,929,493	\$ 4,715,664	\$ 67,142,149
Storage & Exchange													
APS Exchange													
Cowittz-Swift													
PSCO Exchange													
SCL State Line													
Total Storage & Exchange	\$ (450,000)	\$ (450,000)	\$ (450,000)	\$ (450,000)	\$ (450,000)	\$ (450,000)	\$ (450,000)	\$ (450,000)	\$ (450,000)	\$ (450,000)	\$ (450,000)	\$ (450,000)	\$ (4,500,000)
Total Short Term Firm Purchases	\$ (17,278,215)	\$ (8,244,207)	\$ (15,248,063)	\$ (1,921,848)	\$ (10,763,452)	\$ (17,364,078)	\$ 63,939,653	\$ 69,934,704	\$ 37,899,079	\$ 7,764,610	\$ 6,966,970	\$ 18,872,810	\$ 133,978,282
Total Secondary Purchases	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Purchased Power & Net Interchange	\$ (9,005,633)	\$ (2,029,795)	\$ (9,547,909)	\$ 3,076,196	\$ (4,539,914)	\$ (13,461,017)	\$ 71,001,033	\$ 76,474,947	\$ 40,404,469	\$ 9,763,198	\$ 10,896,463	\$ 23,588,374	\$ 196,620,411
Wheeling & U. of F. Expense													
Firm Wheeling	\$ 375,759	\$ 286,930	\$ 2,161,222	\$ 1,445,084	\$ 1,747,715	\$ 3,077,206	\$ 5,209,257	\$ 2,462,382	\$ 3,788,556	\$ 1,272,108	\$ 207,782	\$ 1,003,139	\$ 23,017,118
Non-Firm Wheeling													
Total Wheeling & U. of F. Expense	\$ 375,759	\$ 286,930	\$ 2,161,222	\$ 1,445,084	\$ 1,747,715	\$ 3,077,206	\$ 5,209,257	\$ 2,462,382	\$ 3,788,556	\$ 1,272,108	\$ 207,782	\$ 1,003,139	\$ 23,017,118

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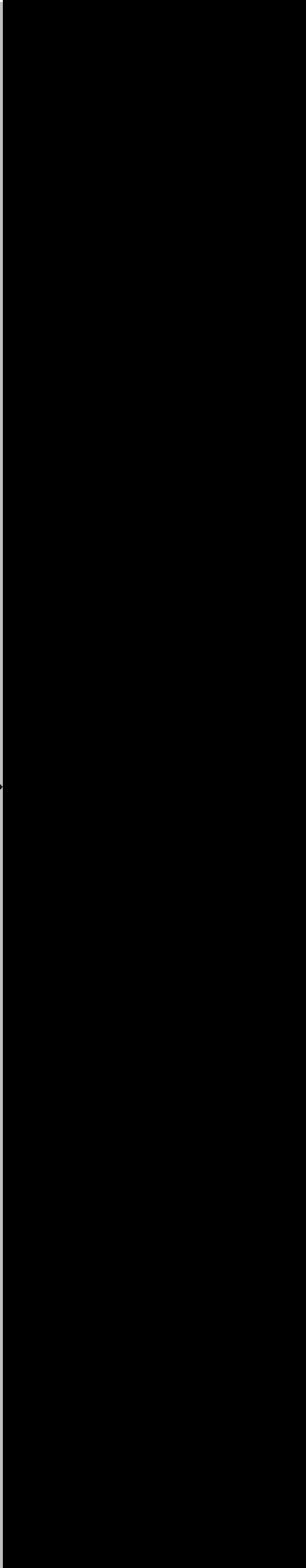
Projected NPC Comparison to Prior ECAC

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Coal Fuel Burn Expense													
Cholla	249,855	238,259	284,226	346,987	882,873	852,782	48,442	155,907	86,908	43,303	618,312	45,731	3,860,484
Colstrip	226,451	80,702	(69,955)	(197,542)	1,416,949	1,110,209	656,446	950,222	322,088	390,545	1,116,312	1,017,822	6,354,516
Craig	1,086,075	672,164	1,177,899	368,651	2,265,442	3,589,355	977,216	943,237	643,343	1,335,115	420,516	320,166	13,764,240
Dave Johnston	(172,057)	(212,252)	(166,077)	(106,042)	(243,559)	(360,020)	(261,355)	(234,338)	310,466	(331,077)	(62,651)	(1,558,939)	(1,937,944)
Hayden	(216,500)	1,746,872	1,565,196	3,416,476	5,180,472	4,168,866	(62,555)	536,863	(621,804)	1,458,752	198,898	(1,025,329)	15,828,452
Hunterton	(1,000,039)	(941,906)	(941,906)	(941,906)	(941,906)	(941,906)	(941,906)	(941,906)	(941,906)	(941,906)	(941,906)	(941,906)	(9,419,060)
Lake Slide 1	(1,000,039)	(941,906)	(941,906)	(941,906)	(941,906)	(941,906)	(941,906)	(941,906)	(941,906)	(941,906)	(941,906)	(941,906)	(9,419,060)
Lake Slide 2	657,826	508,213	2,732,135	549,200	3,330,092	2,927,768	622,906	659,094	524,110	(1,186,081)	443,875	892,017	7,336,278
Naughton - Gas	(10,770)	(245,497)	520,958	437,691	(1,336,847)	402,576	2,377,846	1,024,542	401,115	221,632	1,325,832	1,876,755	6,008,886
Total Coal Fuel Burn Expense	\$ 3,285,334	\$ 4,324,798	\$ 3,444,535	\$ 9,435,146	\$ 15,890,414	\$ 14,052,136	\$ 4,678,520	\$ 6,831,716	\$ 5,042,435	\$ 3,338,007	\$ 4,600,245	\$ 2,792,350	\$ 77,815,635
Gas Fuel Burn Expense													
Chemalis	7,648,634	2,782,220	3,526,521	(4,268,197)	(2,150,244)	386,319	2,409,900	2,325,250	2,690,666	3,891,240	2,214,633	2,426,224	23,883,166
Current Creek	182,449	(3,220,784)	5,011,135	2,594,303	579,437	1,603,255	1,625,698	1,693,247	1,158,707	1,514,721	1,540,439	1,789,643	16,032,207
Gadsby	786,837	484,942	506,631	265,367	382,687	314,501	738,709	914,343	830,038	484,048	824,813	738,734	7,252,140
Hunterton	82,205	1,661,905	901,230	246,873	(1,151,685)	1,316,899	(634,742)	(756,349)	(687,732)	(1,496,389)	670,689	1,333,069	5,335,373
Lake Slide 1	2,210,039	1,661,905	901,230	246,873	(1,151,685)	1,316,899	(634,742)	(756,349)	(687,732)	(1,496,389)	670,689	1,333,069	5,335,373
Lake Slide 2	(1,000,039)	(941,906)	(941,906)	(941,906)	(941,906)	(941,906)	(941,906)	(941,906)	(941,906)	(941,906)	(941,906)	(941,906)	(9,419,060)
Naughton - Gas	(10,770)	(245,497)	520,958	437,691	(1,336,847)	402,576	2,377,846	1,024,542	401,115	221,632	1,325,832	1,876,755	6,008,886
Total Gas Fuel Burn Expense	\$ 11,119,591	\$ 1,856,108	\$ 13,356,044	\$ 1,025,370	\$ 2,832,249	\$ 7,258,153	\$ 8,256,400	\$ 8,801,896	\$ 7,052,667	\$ 6,756,458	\$ 8,530,494	\$ 11,062,238	\$ 87,906,686
Other Generation													
Black Cap Solar	(204,321)	(184,548)	(139,862)	(216,032)	(182,676)	(161,160)	(173,122)	(186,402)	(183,152)	(238,375)	(108,996)	(197,864)	(2,176,510)
Blundell	(204,321)	(184,548)	(139,862)	(216,032)	(182,676)	(161,160)	(173,122)	(186,402)	(183,152)	(238,375)	(108,996)	(197,864)	(2,176,510)
Total Other Generation	\$ (408,642)	\$ (369,096)	\$ (279,724)	\$ (432,064)	\$ (365,352)	\$ (322,320)	\$ (346,244)	\$ (372,804)	\$ (366,304)	\$ (476,750)	\$ (217,992)	\$ (395,728)	\$ (4,353,020)
Net Power Cost	\$ (4,042,101)	\$ (2,252,053)	\$ 13,154,689	\$ 17,229,580	\$ 15,225,927	\$ 6,158,927	\$ 78,032,303	\$ 87,437,907	\$ 36,132,651	\$ 11,283,271	\$ 12,136,966	\$ 20,821,690	\$ 291,419,758

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Projected NPC Comparison to Prior ECAC

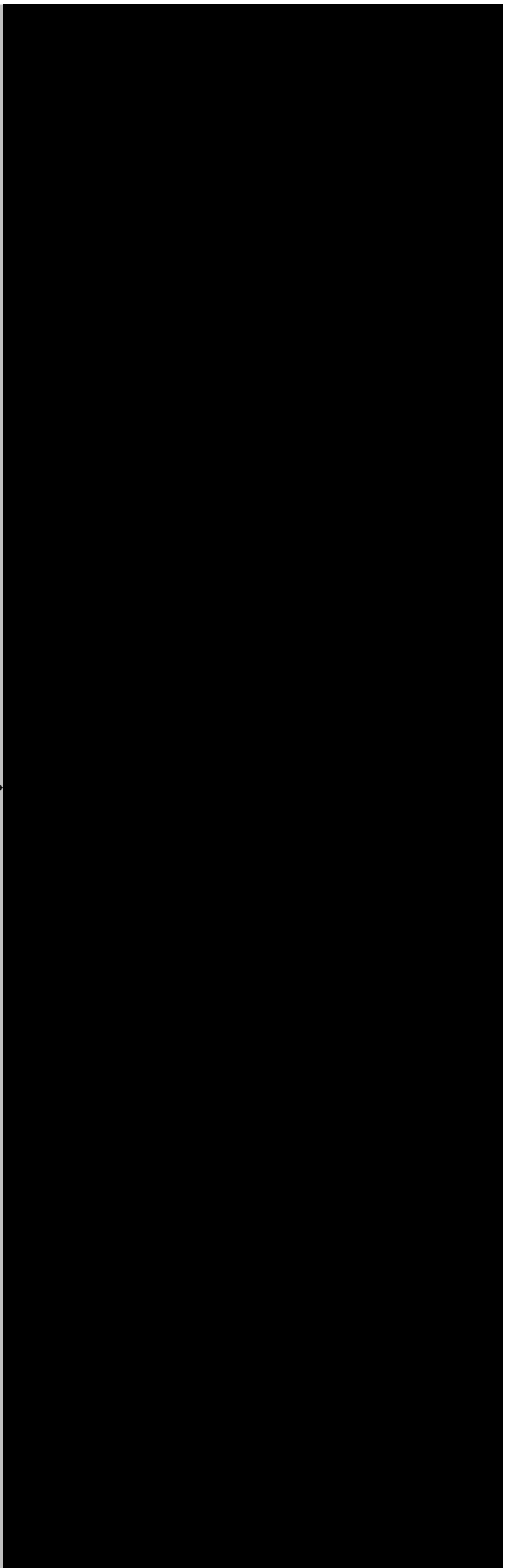
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Confidential Exhibit PAC/103

Projected NPC Comparison to Prior ECAC

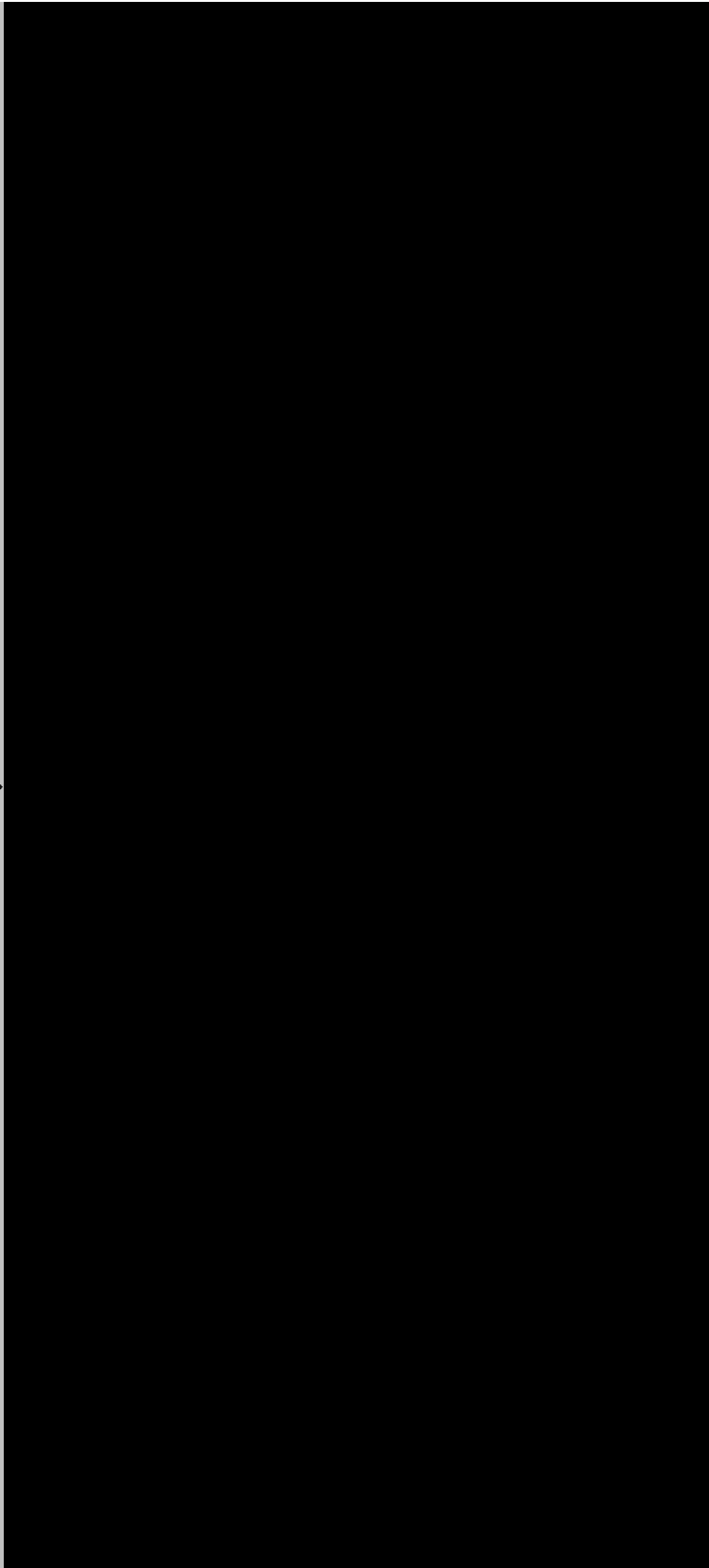
Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Total



Confidential Exhibit PAC/103

Projected NPC Comparison to Prior ECAC

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Confidential Exhibit PAC/103

Projected NPC Comparison to Prior ECAC

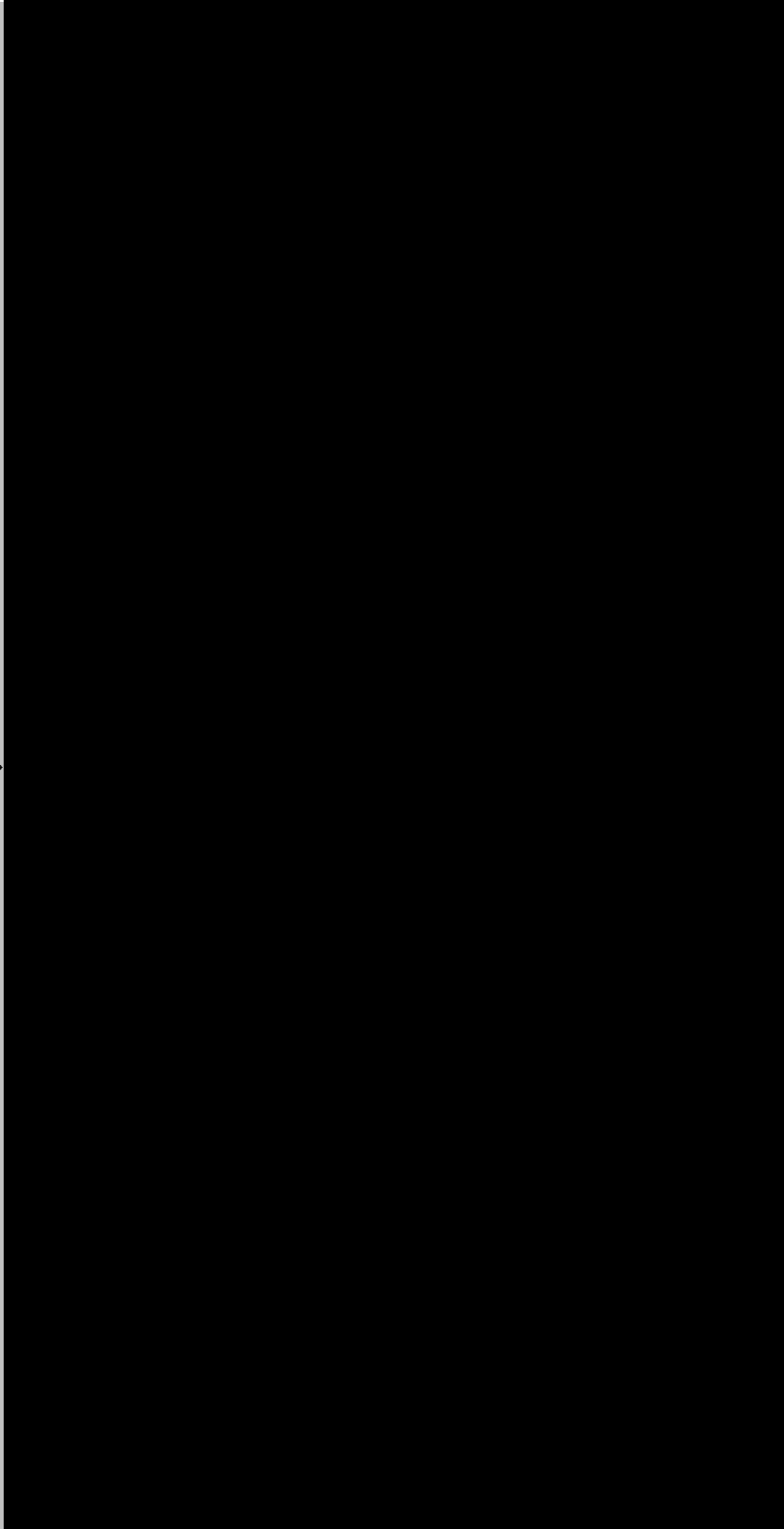
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
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Confidential Exhibit PAC/103

Projected NPC Comparison to Prior ECAC

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Application No. 22-08-____
Exhibit No. PAC/104
Witness: Ramon J. Mitchell

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA

PACIFICORP

Exhibit Accompanying Direct Testimony of

Ramon J. Mitchell

2023 California-allocated NPC

August 2022

Exhibit PAC/104
PacifiCorp
2023 California-allocated NPC

Description	Per Docket A.18-04-002			CY 2023 California Allocated
	CY 2023 Total Company	2017 Protocol Factor	California Factor %	
Sales for Resale (Account 447)				
Existing Firm Sales PPL	6,446,989	SG	1.580%	101,890
Existing Firm Sales UPL	-	SG	1.580%	-
Post-merger Firm Sales	389,608,251	SG	1.580%	6,157,503
Total Revenue	396,055,240			6,259,393
-				
Purchased Power (Account 555)				
Existing Firm Demand PPL	11,628,369	SG	1.580%	183,779
Existing Firm Demand UPL	-	SG	1.580%	-
Existing Firm Energy	28,648,381	SE	1.490%	426,940
Post-merger Firm	907,691,022	SG	1.580%	14,345,461
Other Generation	-	SG	1.580%	-
Seasonal Contracts	-	SG	1.580%	-
Total Purchased Power	947,967,772			14,956,180
	395,255,374			
Wheeling (Account 565)				
Existing Firm PPL	22,565,269	SG	1.580%	356,629
Existing Firm UPL	-	SG	1.580%	-
Post-merger Firm	137,727,474	SG	1.580%	2,176,692
Non-firm	19,972,531	SE	1.490%	297,646
Total Wheeling Expense	180,265,273			2,830,968
-				
Fuel Expense (Accounts 501, 503 and 547)				
Fuel Consumed - Coal	650,326,579	SE	1.490%	9,691,663
Fuel Consumed - Gas	15,789,765	SE	1.490%	235,311
Steam From Other Sources	4,508,907	SE	1.490%	67,195
Natural Gas Consumed	337,810,529	SE	1.490%	5,034,310
Simple Cycle Combustion Turbines	11,762,010	SE	1.490%	175,286
Cholla/APS Exchange	-	SE	1.490%	-
Total Fuel Expense	1,020,197,791			15,203,767
-				
CY 2023 Net Power Cost	1,752,375,596			26,731,521