



e-FILING REPORT COVER SHEET

COMPANY NAME: PacifiCorp d/b/a Pacific Power

DOES REPORT CONTAIN CONFIDENTIAL INFORMATION? No Yes If yes, submit a redacted public version (or a cover letter) by email. Submit the confidential information as directed in OAR 860-001-0070 or the terms of an applicable protective order.

Select report type: RE (Electric) RG (Gas) RW (Water) RT (Telecommunications)
 RO (Other, for example, industry safety information)

Did you previously file a similar report? No Yes, report docket number: RE 181

Report is required by: OAR 860-030-011(1)

Statute

Order

Note: A one-time submission required by an order is a compliance filing and not a report (file compliance in the applicable docket)

Other

(For example, federal regulations, or requested by Staff)

Is this report associated with a specific docket/case? No Yes, docket number: UM 1893

List Key Words for this report. We use these to improve search results.

OAR 860-030-0011, 2022 Energy Efficiency Avoided Cost Report

Send the completed Cover Sheet and the Report in an email addressed to PUC.FilingCenter@state.or.us

Send confidential information, voluminous reports, or energy utility Results of Operations Reports to PUC Filing Center, PO Box 1088, Salem, OR 97308-1088 or by delivery service to 201 High Street SE Suite 100, Salem, OR 97301.



825 NE Multnomah Street, Suite 2000
Portland, Oregon 97232

September 15, 2022

VIA ELECTRONIC FILING

Public Utility Commission of Oregon
Attn: Filing Center
201 High Street SE, Suite 100
Salem, OR 97301-3398

Re: RE 181—PacifiCorp's 2022 Energy Efficiency Avoid Cost Report

In accordance with Oregon Administrative Rule 860-030-011(1), PacifiCorp d/b/a Pacific Power encloses for filing its 2022 Energy Efficiency Avoided Cost Report.

If you have questions about this filing, please contact Cathie Allen, Regulatory Affairs Manager, at (503) 813-5934.

Sincerely,

Shelley McCoy
Director, Regulation

Enclosure

Energy Efficiency Avoided Cost Submission Template - Electric	
Utility Name:	PacifiCorp
Submission Date:	9/15/2022
Instructions and Definitions	
<p><> Please fill out this workbook completely and per the instructions and submit via electronic filing to docket UM 1893. Submissions are due October 15 of each year.</p> <p><> Inputs will be reviewed and approved by the OPUC before being sent to the Energy Trust of Oregon for use in Avoided Cost development</p> <p><> Provide as much detail as possible when sourcing data inputs, including the link to the source (if available), page number and table or graph number <i>This will increase the efficiency of this process and require less iteration during the OPUC review period</i></p> <p><i>Required pages 1,2,3,4 refer to data presented in the most recently acknowledged IRP, IRP Update, or General Rate Case unless otherwise noted.</i></p>	
1) Global Inputs - IRP	
<p><> Most components of the avoided costs are input into this tab including inflation/discount rates, line losses, risk reduction values, T&D deferral values, and generation deferral values</p> <p><> Identify the winter & summer peak periods for Transmission and Distribution. The Generation LOLP Map will be utilized for generation peak definitions.</p> <p><> If necessary, Energy Trust will work with each utility about sector definitions for T&D for which values to provide for Res, Com, and Ind</p> <p><> Ensure that the dollar years of the data inputs match the source - Energy Trust will inflate to the proper year</p> <p><> Please provide the values in the most recently acknowledged IRP</p>	
2) Forward Market Prices - IRP	
<p><> Provide forward market price forecast by month for both high load hours and low load hours</p> <p><> Please provide the dollar amount of these prices that is associated with carbon costs (or %). If it is a dollar value, this is a subset of the total prices provided - The total forward market prices should be the FULL price, including carbon</p> <p><> Indicate if the forecast is in nominal or real dollars (and what dollar year if real)</p> <p><> Please provide the values in the most recently acknowledged IRP</p>	
3) LOLP - IRP	
<p><> Input a 12x24 Loss of Load Probability heat map per the example in the worksheet</p> <p><> These will be potentially utilized in future iterations of avoided cost updates pending outcome of UM1893</p> <p><> Include heat maps for all days, weekdays only, and weekends only</p> <p><> Please provide the values in the most recently acknowledged IRP</p>	
4) RPS Compliance - IRP	
<p><> Input RPS compliance costs by year</p> <p><> Please provide the values in the most recently acknowledged IRP</p>	
1a, 2a, 3a, 4a) Alternative Submissions	
<p><> Use these worksheets to provide alternative values to the most recently acknowledged IRP values</p> <p><> Provide a rationale for submitting the alternative values in the box provided at the top of each alternative worksheet</p> <p><> If a second set of alternative values is submitted, simply copy the alt tabs necessary and rename to 1b, alt 2 in the tab name</p>	

Global Assumptions Inputs				SOURCING				
				Provide as much detail as possible with sourcing including a link. Ensure that dollar years listed here are the same as the source.				
Avoided Cost Element	Units	Value	Dollar Year	Source	Source Page #	Table # (if applicable)	Source Link or File Name	Source Notes
Inflation Rate	Percent	2.155%	N/A	PacifiCorp 2021 IRP	Vol. 1: pg. 226		https://www.pacifiCorp.com/content/dam/pacifiCorp/documents/en/pacifiCorp/energy/integrated-resource-plan/2021-irp/Volume%20Final.pdf	Sep. 2020 forecast
Real Discount Rate	Percent	4.63%	N/A	PacifiCorp 2021 IRP	Vol. 1: pg. 226		https://www.pacifiCorp.com/content/dam/pacifiCorp/documents/en/pacifiCorp/energy/integrated-resource-plan/2021-irp/Volume%20Final.pdf	Calculated from inflation and nominal discount rates
Regional Act Credit	Percent	10.00%	N/A					
Transmission Loss Factor	Percent	3.50%	N/A	PacifiCorp's most recent class-level line losses are from its 2018 Loss Study published in 2020.				
Distribution Loss Factor, Commercial	Percent	3.69%	N/A	2018 Loss Study, incremental to transmission losses. Reflects proportion of the class interconnected at each voltage level.				
Distribution Loss Factor, Industrial	Percent	3.20%	N/A	2018 Loss Study, incremental to transmission losses. Reflects proportion of the class interconnected at each voltage level.				
Distribution Loss Factor, Residential	Percent	4.46%	N/A	2018 Loss Study, incremental to transmission losses. Reflects proportion of the class interconnected at each voltage level.				
Risk Reduction Value	\$/MWh	\$3.05	2021	PacifiCorp 2021 IRP	Vol. 1: pg. 211		https://www.pacifiCorp.com/content/dam/pacifiCorp/documents/en/pacifiCorp/energy/integrated-resource-plan/2021-irp/Volume%20Final.pdf	Nominal-levelized value from 2021 IRP is converted to real-levelized input. Risk reduction value for EE selections calculated using IRP models. The difference in present-value revenue requirement (PVRR) between stochastic studies and deterministic studies with and without energy efficiency, divided by the net present value of the energy efficiency savings (MWh) yields the \$/MWh assumed value of stochastic risk reduction.
Transmission Deferral Credit	\$/KW-yr	\$6.34	2020	PacifiCorp 2021 IRP	Vol. 1: pg. 211	Table 7.10	https://www.pacifiCorp.com/content/dam/pacifiCorp/documents/en/pacifiCorp/energy/integrated-resource-plan/2021-irp/Volume%20Final.pdf	
Seasonal Capacity Split - Summer	Percent	38.75%	N/A	PacifiCorp 2021 IRP	Support for Appendix N - Energy Storage Potential Evaluation	2021 IRP T&D 12x24 CONF. 2021 08 29.xlsx		
Seasonal Capacity Split - Winter	Percent	61.25%	N/A	PacifiCorp 2021 IRP	Support for Appendix N - Energy Storage Potential Evaluation	2021 IRP T&D 12x24 CONF. 2021 08 29.xlsx		
Summer Peak Period Definition	Month/D	Trans. 12x24 profile	N/A	PacifiCorp 2021 IRP	Support for Appendix N - Energy Storage Potential Evaluation	2021 IRP T&D 12x24 CONF. 2021 08 29.xlsx		Day is intended to be weekday or weekend
Winter Peak Period Definition	Month/D	Trans. 12x24 profile	N/A	PacifiCorp 2021 IRP	Support for Appendix N - Energy Storage Potential Evaluation	2021 IRP T&D 12x24 CONF. 2021 08 29.xlsx		Day is intended to be weekday or weekend
Deficiency start year	Year	2021	N/A	2021 IRP Assumption: T&D EE credit applied from first year of study				
Distribution Deferral Credit	\$/KW-yr	\$13.38	2020	PacifiCorp 2021 IRP	Vol. 1: pg. 211	Table 7.10	https://www.pacifiCorp.com/content/dam/pacifiCorp/documents/en/pacifiCorp/energy/integrated-resource-plan/2021-irp/Volume%20Final.pdf	
Seasonal Capacity Split - Summer	Percent	89.55%	N/A	PacifiCorp 2021 IRP	Support for Appendix N - Energy Storage Potential Evaluation	2021 IRP T&D 12x24 CONF. 2021 08 29.xlsx		
Seasonal Capacity Split - Winter	Percent	10.45%	N/A	PacifiCorp 2021 IRP	Support for Appendix N - Energy Storage Potential Evaluation	2021 IRP T&D 12x24 CONF. 2021 08 29.xlsx		
Summer Peak Period Definition	Month/D	Dist. 12x24 profile	N/A	PacifiCorp 2021 IRP	Support for Appendix N - Energy Storage Potential Evaluation	2021 IRP T&D 12x24 CONF. 2021 08 29.xlsx		Day is intended to be weekday or weekend
Winter Peak Period Definition	Month/D	Dist. 12x24 profile	N/A	PacifiCorp 2021 IRP	Support for Appendix N - Energy Storage Potential Evaluation	2021 IRP T&D 12x24 CONF. 2021 08 29.xlsx		Day is intended to be weekday or weekend
Deficiency start year	Year	2021	N/A	2021 IRP Assumption: T&D EE credit applied from first year of study				
Generation Capacity Credit	\$/KW-yr	\$85.71	2020	Simple Cycle Combustion Turbine, Frame F, 1500'. 2021 IRP Supply Side Table, Table 7.2 on page 179. Includes VOM, consistent with standard QF pricing approved 7/1/22.	Vol. 1: pg. 179	6.2	https://www.pacifiCorp.com/content/dam/pacifiCorp/documents/en/pacifiCorp/energy/integrated-resource-plan/2021-irp/Volume%20Final.pdf	For the referenced value and calculation, see Source 2: QF Filing, Table 9, pg. 36 (link at right)
Seasonal Capacity Split - Summer	Percent	82.8%	N/A	2021 IRP LOLP Data, June - September events. Results are discussed in 2021 IRP Volume II, Appendix K.			https://www.pacifiCorp.com/content/dam/pacifiCorp/documents/en/pacifiCorp/energy/integrated-resource-plan/2021-irp/Volume%20Final.pdf	
Seasonal Capacity Split - Winter	Percent	17.2%	N/A	2021 IRP LOLP Data, October - May events			https://www.pacifiCorp.com/content/dam/pacifiCorp/documents/en/pacifiCorp/energy/integrated-resource-plan/2021-irp/Volume%20Final.pdf	
Deficiency start year	Year	2026	N/A	From Standard QF AC effective 2022 07 01 (update following 2021 IRP acknowledgment), pg. 6.	6		https://www.pacifiCorp.com/content/dam/pacifiCorp/documents/en/pacifiCorp/energy/integrated-resource-plan/2021-irp/Volume%20Final.pdf	
RPS Compliance Cost	\$/MWh	see annual table	N/A					
Avoided RPS Compliance Obligation	%	see annual table	N/A					

Nominal Discount Rate, Vol. 6.88% 1: pg. 226

<https://edo.cs.puc.stat>
 Source 2: [e.or.us/efi](https://www.pacifiCorp.com/content/dam/pacifiCorp/documents/en/pacifiCorp/energy/integrated-resource-plan/2021-irp/Volume%20Final.pdf)
 QF Filing, Table 9, [m1728tab](https://www.pacifiCorp.com/content/dam/pacifiCorp/documents/en/pacifiCorp/energy/integrated-resource-plan/2021-irp/Volume%20Final.pdf)
 pg. 36 [165037.pdf](https://www.pacifiCorp.com/content/dam/pacifiCorp/documents/en/pacifiCorp/energy/integrated-resource-plan/2021-irp/Volume%20Final.pdf)

Forward Price Inputs

Real or Nominal?	Nominal
Dollar Year:	n/a
Carbon Prices Additive?	Embedded in Market Prices
Carbon Value Units (\$/MWH)	\$/Ton
Source and Pg #:	March 2021 Medium Gas/Medium CO2 electricity market prices used in 2021 IRP. 2021 IRP Vol I, p. 226-228.
Source Link or File Name:	2021 IRP public data disk: \Assumptions + Inputs\Price Curve\MedGas_2025MCO2.10.09.18.xlsx
Source Notes:	Data for 2041+ escalated at inflation

NOTES:
Please provide notes as to how this value relates to forward market prices. It can be expressed as a percentage of forward market prices, a set \$/MWh, or \$/ton. <u>Please identify the units in the box to the left</u>

PacifiCorp's 2021 IRP does not include a carbon emissions rate or cost on top of the market price for electricity.

Year	Date	HLH Total (\$/MWh)	LLH Total (\$/MWh)	HLH Carbon Cost (OR % of HLH Price that accounts for Carbon?)	LLH Carbon Cost (OR % of LLH Price that accounts for Carbon?)
2021	1/1/2021	23.62	20.91	-	-
2021	2/1/2021	51.71	36.10	-	-
2021	3/1/2021	27.62	25.66	-	-
2021	4/1/2021	22.48	16.84	-	-
2021	5/1/2021	19.79	12.27	-	-
2021	6/1/2021	25.28	17.26	-	-
2021	7/1/2021	35.41	23.41	-	-
2021	8/1/2021	39.52	26.26	-	-
2021	9/1/2021	30.33	25.44	-	-
2021	10/1/2021	37.04	28.70	-	-
2021	11/1/2021	36.54	28.34	-	-
2021	12/1/2021	39.18	30.43	-	-
2022	1/1/2022	39.61	29.53	-	-
2022	2/1/2022	38.67	30.71	-	-
2022	3/1/2022	28.72	23.97	-	-
2022	4/1/2022	19.52	16.66	-	-
2022	5/1/2022	15.13	10.39	-	-
2022	6/1/2022	23.93	16.41	-	-
2022	7/1/2022	40.49	23.16	-	-
2022	8/1/2022	43.12	23.88	-	-
2022	9/1/2022	28.02	23.75	-	-
2022	10/1/2022	32.17	25.30	-	-
2022	11/1/2022	33.08	26.87	-	-
2022	12/1/2022	38.22	29.52	-	-
2023	1/1/2023	37.40	28.84	-	-
2023	2/1/2023	36.00	28.25	-	-
2023	3/1/2023	27.50	22.28	-	-
2023	4/1/2023	19.53	16.83	-	-
2023	5/1/2023	14.11	11.77	-	-
2023	6/1/2023	22.59	15.10	-	-
2023	7/1/2023	47.27	22.75	-	-
2023	8/1/2023	52.77	25.96	-	-
2023	9/1/2023	29.44	22.99	-	-
2023	10/1/2023	34.09	24.97	-	-
2023	11/1/2023	34.85	27.80	-	-
2023	12/1/2023	39.00	29.81	-	-
2024	1/1/2024	38.66	28.62	-	-
2024	2/1/2024	40.24	30.67	-	-
2024	3/1/2024	26.68	23.68	-	-
2024	4/1/2024	16.78	15.99	-	-
2024	5/1/2024	15.89	12.49	-	-
2024	6/1/2024	19.24	15.61	-	-
2024	7/1/2024	52.93	24.71	-	-
2024	8/1/2024	67.46	30.67	-	-
2024	9/1/2024	34.57	26.96	-	-
2024	10/1/2024	40.10	31.04	-	-
2024	11/1/2024	36.63	29.76	-	-
2024	12/1/2024	45.56	34.07	-	-
2025	1/1/2025	46.09	36.05	9.93	9.93

NOTE: Dates continue on spreadsheet through 2070

RPS Compliance Inputs IRP

Real or Nominal?	Nominal
Dollar Year:	
Source and Pg #:	PacifiCorp 2021 IRP, Vol I, p.301
Source Link or File Name:	https://www.pacificorp.com/content/dam/pcorp/documents/en/pacificorp/energy/integrated-resource-plan/2021-irp/Volume%20I%20-%209.15.2021%20Final.pdf
Source Notes:	Oregon RPS compliance is achieved through 2040 with the addition of new renewable resources and transmission in the 2021 IRP preferred portfolio. The IRP Preferred Portfolio does not include any renewable resources added for the purpose of RPS compliance. The cost-effective renewables in the portfolio are lower cost than non-RPS alternatives.

	RPS Compliance Cost (\$/MWh)	Avoided RPS Compliance Obligation (%)
2021	0	20%
2022	0	20%
2023	0	20%
2024	0	20%
2025	0	27%
2026	0	27%
2027	0	27%
2028	0	27%
2029	0	27%
2030	0	35%
2031	0	35%
2032	0	35%
2033	0	35%
2034	0	35%
2035	0	45%
2036	0	45%
2037	0	45%
2038	0	45%
2039		45%
2040		50%
2041		50%
2042		50%
2043		50%
2044		50%
2045		50%
2046		50%
2047		50%
2048		50%
2049		50%
2050		50%

Alternative Submissions				Rationale for alternative submission: no alternative global input assumptions proposed					
Global Assumptions Inputs				SOURCING					
				<i>Provide as much detail as possible with sourcing including a link. Ensure that dollar years listed here are the same as the source.</i>					
Avoided Cost Element	Units	Value	Dollar Year	Source	Source Page #	Table # (if applicable)	Source Link or File Name	Source Notes	
Inflation Rate	Percent		N/A						
Real Discount Rate	Percent		N/A						
Regional Act Credit	Percent		N/A						
Transmission Loss Factor	Percent		N/A						
Distribution Loss Factor, Commercial	Percent		N/A						
Distribution Loss Factor, Industrial	Percent		N/A						
Distribution Loss Factor, Residential	Percent		N/A						
Risk Reduction Value	\$/MWh								
Transmission Deferral Credit	\$/kW-yr								
Seasonal Capacity Split - Summer	Percent		N/A						
Seasonal Capacity Split - Winter	Percent		N/A						
Summer Peak Period Definition	Month/Day/Hour		N/A						
Winter Peak Period Definition	Month/Day/Hour		N/A						
Deficiency start year	Year		N/A						
Distribution Deferral Credit	\$/kW-yr								
Seasonal Capacity Split - Summer	Percent		N/A						
Seasonal Capacity Split - Winter	Percent		N/A						
Summer Peak Period Definition	Month/Day/Hour		N/A						
Winter Peak Period Definition	Month/Day/Hour		N/A						
Deficiency start year	Year		N/A						
Generation Capacity Credit	\$/kW-yr		2018						
Seasonal Capacity Split - Summer	Percent		N/A						
Seasonal Capacity Split - Winter	Percent		N/A						
Deficiency start year	Year		N/A						
RPS Compliance Cost	\$/MWh								
Avoided RPS Compliance Obligation	%		N/A						

Alternative Submissions	<p>Rationale for alternative submission: The prices in PacifiCorp's acknowledged 2021 IRP are from March 2021 and are now roughly 18 months out of date. The alternative prices reflect the medium gas, zero CO2 pricing from PacifiCorp's approved Standard QF Pricing, which reflect March 2022 inputs.</p>
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Forward Price Inputs

Real or Nominal?	Nominal
Dollar Year:	n/a
Carbon Prices Additive?	Additive
Carbon Value Units (\$/MWh)	\$/Ton
Source and Pg #:	March 2022 Medium Gas/Zero CO2 electricity market prices used in
Source Link or File Name:	
Source Notes:	Data for 2041+ escalated at inflation

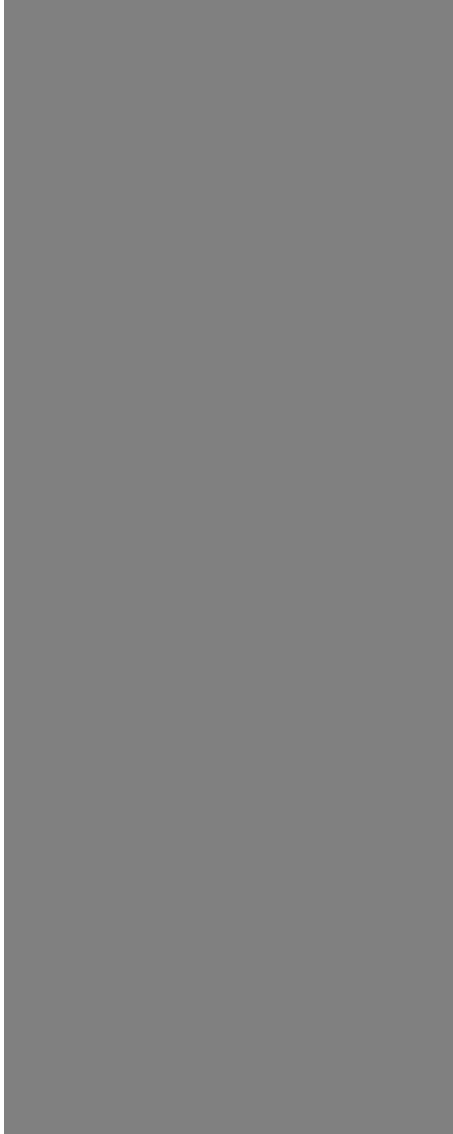
NOTES:

Please provide notes as to how this value relates to forward market prices. It can be expressed as a percentage of forward market prices, a set \$/MWh, or \$/ton. **Please identify the units in the box to the left**

Prices do not include a carbon emissions rate in the market price for electricity.

HLH Carbon Cost (\$/MWh) LLH Carbon Cost (\$/MWh)
 (OR % of HLH Price that (OR % of LLH Price that
 accounts for Carbon?) accounts for Carbon?)

Year	Date	HLH Total (\$/MWh)	LLH Total (\$/MWh)
2021	1/1/2021	-	-
2021	2/1/2021	-	-
2021	3/1/2021	-	-
2021	4/1/2021	-	-
2021	5/1/2021	-	-
2021	6/1/2021	-	-
2021	7/1/2021	-	-
2021	8/1/2021	-	-
2021	9/1/2021	-	-
2021	10/1/2021	-	-
2021	11/1/2021	-	-
2021	12/1/2021	-	-
2022	1/1/2022	41.60	36.43
2022	2/1/2022	39.68	34.67
2022	3/1/2022	33.17	32.35
2022	4/1/2022	44.74	39.30
2022	5/1/2022	38.51	29.39
2022	6/1/2022	48.13	30.86
2022	7/1/2022	98.16	49.32
2022	8/1/2022	167.54	71.35
2022	9/1/2022	106.88	70.81
2022	10/1/2022	65.46	58.03
2022	11/1/2022	65.18	57.12
2022	12/1/2022	88.47	73.31
2023	1/1/2023	88.88	70.57
2023	2/1/2023	76.64	63.73
2023	3/1/2023	48.58	42.34
2023	4/1/2023	31.78	26.48
2023	5/1/2023	30.32	20.17
2023	6/1/2023	37.89	25.68
2023	7/1/2023	110.66	55.56
2023	8/1/2023	126.90	63.79
2023	9/1/2023	105.70	54.68
2023	10/1/2023	55.08	46.91
2023	11/1/2023	58.68	50.87
2023	12/1/2023	71.93	59.57
2024	1/1/2024	68.35	59.84
2024	2/1/2024	60.71	54.23
2024	3/1/2024	48.65	46.70
2024	4/1/2024	33.26	25.92
2024	5/1/2024	32.90	20.77
2024	6/1/2024	32.29	19.31
2024	7/1/2024	105.86	65.81
2024	8/1/2024	127.35	78.18
2024	9/1/2024	98.37	64.62
2024	10/1/2024	49.81	43.07
2024	11/1/2024	54.17	47.16
2024	12/1/2024	68.97	56.13



Alternative Submissions	Rationale for alternative submission: n/a
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RPS Compliance Inputs IRP

Real or Nominal?	Nominal
Dollar Year:	
Source and Pg #:	
Source Link or File Name:	
Source Notes:	

	RPS Compliance Cost (\$/MWh)	Avoided RPS Compliance Obligation (%)
2021	\$ -	20%
2022	\$ -	20%
2023	\$ -	20%
2024	\$ -	20%
2025	\$ -	27%
2026	\$ -	27%
2027	\$ -	27%
2028	\$ -	27%
2029	\$ -	27%
2030	\$ -	35%
2031	\$ -	35%
2032	\$ -	35%
2033	\$ -	35%
2034	\$ -	35%
2035	\$ -	45%
2036	\$ -	45%
2037	\$ -	45%
2038	\$ -	45%
2039	\$ -	45%
2040	\$ -	50%
2041		50%
2042		50%
2043		50%
2044		50%
2045		50%
2046		50%
2047		50%
2048		50%
2049		50%
2050		50%

\$/ST	2021 IRP Med CO2 PAC Nom	2021 IRP EE Risk Reduction Credit	
		Calculated by IRP models	Levelized values by year
	21IRP: Figure 8.4		
	2018		
	2019		
	2020		
	2021	\$3.59	\$3.05
	2022	\$3.59	\$3.11
	2023	\$3.59	\$3.18
	2024	\$3.59	\$3.25
	2025 9.93	\$3.59	\$3.32
	2026 11.15	\$3.59	\$3.39
	2027 12.54	\$3.59	\$3.46
	2028 14.09	\$3.59	\$3.54
	2029 15.85	\$3.59	\$3.61
	2030 17.83	\$3.59	\$3.69
	2031 20.06	\$3.59	\$3.77
	2032 22.58	\$3.59	\$3.85
	2033 25.41	\$3.59	\$3.94
	2034 28.59	\$3.59	\$4.02
	2035 32.14	\$3.59	\$4.11
	2036 36.13	\$3.59	\$4.20
	2037 40.66	\$3.59	\$4.29
	2038 45.76	\$3.59	\$4.38
	2039 51.49	\$3.59	\$4.47
	2040 57.94	\$3.59	\$4.57

Nominal levelized 2021-2040 \$3.59 \$3.59

Real-levelized Adjustment 118%

set so that nominal and real streams are equal

20XX IRP Med CO2	20XX IRP EE Risk Reduction Credit	
	Calculated	Levelized
	by IRP	values by
PAC Nom	models	year
2XIRP: Figure X		

	\$0.00	\$0.00
	\$0.00	\$0.00
	\$0.00	\$0.00
	\$0.00	\$0.00
0.00	\$0.00	\$0.00
0.00	\$0.00	\$0.00
0.00	\$0.00	\$0.00
0.00	\$0.00	\$0.00
0.00	\$0.00	\$0.00
0.00	\$0.00	\$0.00
0.00	\$0.00	\$0.00
0.00	\$0.00	\$0.00
0.00	\$0.00	\$0.00
0.00	\$0.00	\$0.00
0.00	\$0.00	\$0.00
0.00	\$0.00	\$0.00
0.00	\$0.00	\$0.00
0.00	\$0.00	\$0.00
0.00	\$0.00	\$0.00
0.00	\$0.00	\$0.00
0.00	\$0.00	\$0.00

Nominal levelized 2021-2040	\$0.00	\$0.00
Real-levelized Adjustment	100%	

set so that nominal and real streams are equal

Source and page #: 2021 IRP: Support for Appendix N - Energy Storage Potential Evaluation
File Link or File Name: 2021 IRP T&D 12x24 CONF_2021 08 29.xlsx

