BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION

IN THE MATTER OF THE APPLICATION)		
OF IDAHO POWER COMPANY FOR A)		
DETERMINATION OF 2023 DEMAND-)	CASE NO.	IPC-E-24-11
SIDE MANAGEMENT EXPENSES AS)		
PRUDENTLY INCURRED.)		
)		

IDAHO POWER COMPANY

DIRECT TESTIMONY

OF

ROBERT Z. THOMPSON

- 1 Q. Please state your name and business address.
- 2 A. My name is Robert Z. Thompson. I go by my
- 3 middle name, and therefore, Zack Thompson is my preferred
- 4 name. My business address is 1221 West Idaho Street, Boise,
- 5 Idaho 83702.
- 6 Q. By whom are you employed, and in what
- 7 capacity?
- 8 A. I am employed by Idaho Power Company ("Idaho
- 9 Power" or "Company") as a Regulatory Analyst in the
- 10 Regulatory Affairs Department.
- 11 Q. Please describe your educational background.
- 12 A. In May of 2008, I received a Bachelor of Arts
- 13 degree in Business, Organizations, and Society with a minor
- 14 in Economics from Franklin & Marshall College in Lancaster,
- 15 Pennsylvania. In May of 2014, I received a Master of
- 16 Business Administration degree with a specialization in
- 17 Finance from Louisiana State University in Baton Rouge,
- 18 Louisiana. I have also attended "The Basics: Practical
- 19 Regulatory Training for the Electric Industry," an electric
- 20 utility ratemaking course offered through the New Mexico
- 21 State University's Center for Public Utilities, "Electric
- 22 Utility Fundamentals and Insights," an electric utility
- 23 course offered by Western Energy Institute, and "Electric
- 24 Rates Advanced Course," an electric utility ratemaking
- 25 course offered through Edison Electric Institute.

- 1 Q. Please describe your work experience with
- 2 Idaho Power.
- 3 A. In 2020, I was hired as a Regulatory Analyst
- 4 in the Company's Regulatory Affairs Department. My primary
- 5 responsibilities include supporting activities associated
- 6 with demand-side management ("DSM") as well as rate design
- 7 for the small general service, large general secondary
- 8 service, lighting, and irrigation customer classes.
- 9 Q. What is the purpose of your testimony in this
- 10 case?
- 11 A. The purpose of my testimony is to present the
- 12 Company's request for a determination that \$38,778,378 of
- 13 DSM expenses for the acquisition of demand-side resources
- 14 in 2023 was prudently incurred. This amount includes
- 15 \$30,323,272 funded in 2023 by the Idaho Energy Efficiency
- 16 Rider ("Rider") and \$8,455,107 of demand response program
- 17 incentive payments funded through base rates and tracked
- 18 annually through the Power Cost Adjustment ("PCA").
- 19 My testimony will: (1) provide a review of 2023 DSM
- 20 program performance, (2) discuss 2023 DSM expenses and
- 21 adjustments, (3) provide an overview of the cost-
- 22 effectiveness results for 2023, (4) review program
- 23 evaluation efforts, and (5) describe the input stakeholders
- 24 provided during the year.
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- 1 Q. Are you sponsoring any exhibits?
- 2 A. Yes. I am sponsoring the following exhibits:

Exhibit Description

- Exhibit No. 1 2023 Idaho DSM Expenses and Adjustments for Prudence Filing
- Exhibit No. 2 2023 Cost-Effectiveness Summary by Program Sector and Portfolio
- Exhibit No. 3 2023 DSM Evaluation Plan

3 I. 2023 DSM PROGRAM PERFORMANCE

- 4 Q. What is Idaho Power's focus when evaluating
- 5 program performance?
- 6 A. Idaho Power takes its responsibility of
- 7 prudently managing customer-funded DSM activities
- 8 seriously, and the Company believes it is important to
- 9 provide its customers with the maximum value from these
- 10 activities. The Company's actions in 2023, and the content
- 11 of the Demand-Side Management 2023 Annual Report ("DSM 2023
- 12 Annual Report"), Attachment 1 to the Application filed in
- 13 this proceeding, provides evidence supporting the
- 14 conscientious work Idaho Power employees made toward using
- 15 customers' funds wisely to support DSM activities.
- 16 O. Please provide an overview of Idaho Power's
- 17 DSM activities in 2023.
- 18 A. On a system-wide basis, Idaho Power offered a
- 19 broad portfolio of energy efficiency and demand response
- 20 programs available to all customer segments, and the

- 1 Company also participated in market transformation efforts
- 2 through the Northwest Energy Efficiency Alliance ("NEEA").
- 3 Idaho Power also finished up its ductless heat pump market
- 4 transformation pilot program offered in conjunction with
- 5 Avista Utilities. Finally, the Company offered several
- 6 educational and behavioral initiatives including the
- 7 Residential Energy Efficiency Education Initiative,
- 8 seasonal contests, the School and Campus Cohorts, and the
- 9 Industrial Energy Efficiency Cohort.
- 10 The Company leveraged its Energy Efficiency Advisory
- 11 Group ("EEAG") to solicit input and feedback on ways to
- 12 identify opportunities to increase program effectiveness,
- 13 delivery, and marketing. A summary of Idaho Power's 2023
- 14 DSM programs is provided in Table 1 below.
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Table 1. 2023 DSM Programs by Sector, Operational Type, and Location

Program by Sector	Operational Type	State
Residential		
A/C Cool Credit	Demand Response	ID/OR
Easy Savings: Low-Income Energy Efficiency Education	Energy Efficiency	ID
Educational Distributions	Energy Efficiency	ID/OR
Energy Efficient Lighting	Energy Efficiency	ID/OR
Heating & Cooling Efficiency Program	Energy Efficiency	ID/OR
Home Energy Audit	Energy Efficiency	ID
Home Energy Report Program	Energy Efficiency	ID
Multifamily Energy Efficiency Program	Energy Efficiency	ID/OR
Oregon Residential Weatherization	Energy Efficiency	OR
Rebate Advantage	Energy Efficiency	ID/OR
Residential New Construction Program	Energy Efficiency	ID
Shade Tree Project	Energy Efficiency	ID
Weatherization Assistance for Qualified Customers	Energy Efficiency	ID/OR
Weatherization Solutions for Eligible Customers	Energy Efficiency	ID
Commercial/Industrial		
Commercial and Industrial Energy Efficiency Program		
Custom Projects	Energy Efficiency	ID/OR
Green Motors—Industrial	Energy Efficiency	ID/OR
New Construction	Energy Efficiency	ID/OR
Retrofits	Energy Efficiency	ID/OR
Commercial Energy-Saving Kits	Energy Efficiency	ID/OR
Flex Peak Program	Demand Response	ID/OR
Oregon Commercial Audits	Energy Efficiency	OR
Small Business Direct Install	Energy Efficiency	ID/OR
Irrigation		
Irrigation Efficiency Rewards	Energy Efficiency	ID/OR
Green Motors—Irrigation	Energy Efficiency	ID/OR
Irrigation Peak Rewards	Demand Response	ID/OR
All Sectors		
Northwest Energy Efficiency Alliance	Market Transformation	ID/OR

Table 1 illustrates the broad availability of programs offered by Idaho Power to its customers in energy efficiency, demand response, and education. Idaho Power's energy efficiency portfolio was cost-effective, resulting in a 2.06 benefit/cost ratio when evaluated from a Utility

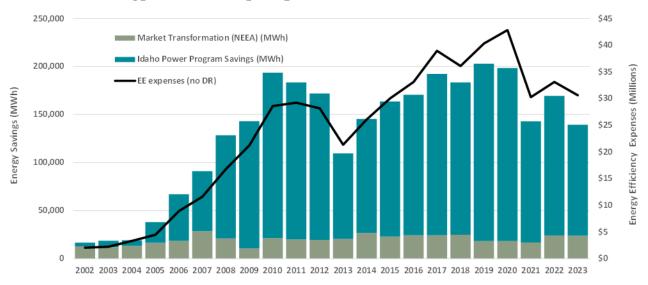
- 1 Cost Test ("UCT") perspective, a 1.51 benefit/cost ratio
- 2 when evaluated from a Total Resource Cost ("TRC") test
- 3 perspective, and a 1.89 benefit/cost ratio when evaluated
- 4 from a Participant Cost Test ("PCT") perspective.
- 5 Attachment 1 to the Application, the DSM 2023 Annual
- 6 Report, provides details for each program, which include: a
- 7 program description, 2023 performance results, program
- 8 activities, cost-effectiveness ratios, marketing
- 9 activities, customer satisfaction, upcoming 2024 plans, and
- 10 evaluation results when applicable. Also included in
- 11 Attachment 1 are: Supplement 1: Cost Effectiveness
- 12 ("Supplement 1"), which provides detailed cost-
- 13 effectiveness data by program and measure, and Supplement
- 14 2: Evaluation ("Supplement 2"), which provides copies of
- 15 the Company's evaluation, reports, and research conducted
- 16 in 2023.

17 Energy Efficiency

- 18 Q. What level of incremental annual energy
- 19 efficiency savings was achieved in 2023?
- 20 A. On a system-wide basis, Idaho Power achieved
- 21 139,683 megawatt-hours ("MWh") of incremental annual energy
- 22 efficiency savings in 2023. This value includes 115,769 MWh
- 23 from Idaho Power's energy efficiency programs and an

- 1 estimated 23,914 MWh¹ of energy efficiency market
- 2 transformation savings through NEEA initiatives. Chart 1
- 3 below shows the incremental annual energy efficiency
- 4 savings in MWh from 2002 to the current year. Also shown in
- 5 this chart are the total energy efficiency expenses for
- 6 each year in millions of dollars.

7 Chart 1. Incremental Annual Energy Efficiency Savings 8 (MWh)and Energy Efficiency Expenses (\$ millions) 2002-2023



- 10 Note: 2023 NEEA market-transformation savings are estimated.
- 11 Q. Did Idaho Power meet the energy efficiency
- 12 targets included in its most recently filed 2023 Integrated
- 13 Resource Plan ("IRP")?

- 14 A. Yes. In 2023, Idaho Power achieved 15.9
- 15 average megawatts ("aMW") of incremental energy efficiency
- 16 savings, including NEEA estimated energy savings, which

 $^{^{1}}$ Because Idaho Power will not receive final 2023 savings from NEEA until the second quarter 2024, the NEEA-attributable savings is an estimate provided to Idaho Power by NEEA.

- 1 exceeded the economic technical achievable potential
- 2 included in the 2023 IRP of 12.2 aMW. The 2023 savings
- 3 represent enough energy to power approximately 12,253
- 4 average homes in Idaho Power's service area for one year.
- 5 Q. How did 2023 DSM program year compare to 2022?
- 6 A. In the 2023 program year, several of the
- 7 Company's DSM programs outperformed their savings and
- 8 participation as compared to the 2022 program year. These
- 9 programs include Educational Distributions, Commercial &
- 10 Industrial ("C&I") Energy Efficiency Program Custom
- 11 Projects, C&I Flex Peak Program, and Irrigation Peak
- 12 Rewards. The Educational Distributions and C&I Energy
- 13 Efficiency Custom Projects increased their combined total
- 14 energy savings by over 4,700 MWh. The C&I Flex Peak and the
- 15 Irrigation Peak Rewards demand response programs increased
- 16 their combined total of participating sites by 409 with the
- 17 C&I Flex Peak program increasing its demand response
- 18 capacity by over 8 megawatts ("MW"). The Company was also
- 19 able to launch a brand-new Multifamily Energy Efficiency
- 20 Program that customers can leverage along with the other
- 21 C&I Energy Efficiency Program offerings such as New
- 22 Construction, Retrofits, and Custom Projects.
- 23 Overall portfolio savings decreased by 29,883 MWh
- 24 year-over-year compared to 2022 with the main drivers being
- 25 the C&I Energy Efficiency Program New Construction and

- 1 Retrofits options as well as the Home Energy Reports
- 2 ("HER") program. The projects within C&I Energy Efficiency
- 3 Program can vary greatly in size, scale, and the timeframes
- 4 it takes to complete them, which can cause changes in
- 5 overall portfolio savings performance annually. The New
- 6 Construction and Retrofits options combined drove about 83
- 7 percent of the decrease in annual incremental savings
- 8 compared to 2022. The HER program experienced a decrease in
- 9 savings as well due to the anticipated program attrition
- 10 associated with the conclusion of the first 3-year
- 11 treatment period. The Company has entered into an agreement
- 12 with a new HER program implementer for another 3-year
- 13 treatment period from 2024 through 2026. The Company is
- 14 exploring the potential to add a new wave of residential
- 15 customers to the program, and if successful in that, the
- 16 Company anticipates savings to increase for 2024 as
- 17 compared to the 2023 program year.
- 18 Q. Does the Company engage in customer education
- 19 and outreach activities for which it cannot quantify or
- 20 report savings?
- 21 A. Yes. The Company engages in significant
- 22 educational awareness activities and marketing efforts that
- 23 are likely to result in energy savings experienced by
- 24 customers but are not quantified or claimed as part of
- 25 Idaho Power's annual savings. These efforts are designed to

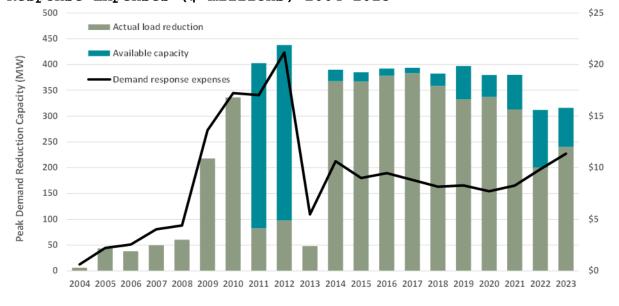
- 1 reach all customer segments and are more fully explained
- 2 throughout the DSM 2023 Annual Report. In 2023, this
- 3 included activities such as: holding virtual and in-person
- 4 technical trainings and workshops with customers, producing
- 5 the *Energy@Work* and Irrigation newsletters, participating
- 6 in several different types of agricultural shows, hosting
- 7 or participating in vendor workshops promoting irrigation
- 8 system efficiency, publishing residential energy efficiency
- 9 guides that showcased behavioral changes to save energy,
- 10 attending other outreach activities such as home shows to
- 11 discuss energy efficiency with customers one-on-one, and
- 12 supporting the Integrated Design Lab.

13 Demand Response

- 14 O. What level of capacity was available from
- 15 Idaho Power's demand response programs in 2023?
- 16 A. The total available capacity of Idaho Power's
- 17 three demand response programs (A/C Cool Credit, Flex Peak
- 18 Program, and Irrigation Peak Rewards) was approximately 316
- 19 MW. This value represents the total enrolled MW from
- 20 participants adjusted for an expected maximum realization
- 21 rate.
- Q. What level of non-coincident demand reduction
- 23 was provided?
- A. The Company's demand response programs
- 25 provided actual non-coincident demand reduction of 240 MW

- 1 during the 2023 program season. The 240 MW maximum load
- 2 reduction is less than 316 MW of total demand response
- 3 program capacity for a variety of reasons including, but
- 4 not limited to, the three demand response programs are not
- 5 always dispatched together during a single event day, the
- 6 four irrigation groups are also not always dispatched
- 7 coincidentally, and events are not always called during the
- 8 demand response season when the total program capacity is
- 9 available. Chart 2 below reflects the annual available peak
- 10 demand reduction capacity and actual load reduction in MW
- 11 since 2004 and the associated annual expenses in millions
- 12 of dollars.

Chart 2. Peak Demand Reduction Capacity (MW) and Demand Response Expenses (\$ millions) 2004-2023



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- 18 //

1 II. 2023 DSM EXPENSES AND ADJUSTMENTS

- Q. What amount of DSM expenses is the Company
- 3 requesting the Commission find were prudently incurred?
- 4 A. In the delivery of energy efficiency, demand
- 5 response, and market transformation programs, Idaho Power
- 6 expended \$30,323,272 of Rider funds and paid \$8,455,107 in
- 7 demand response program incentives, for a total of
- 8 \$38,778,378 spent on demand-side resource acquisition in
- 9 2023. Idaho Power requests that the 2023 Rider-funded DSM
- 10 expenses, and the 2023 demand response program incentives
- 11 recovered through base rates and tracked through the PCA,
- 12 be reviewed together for a prudence determination. Exhibit
- 13 No. 1 to my testimony, 2023 Idaho DSM Expenses and
- 14 Adjustments for Prudence Filing, shows a breakout of these
- 15 expenses by program, customer sector, and funding source.
- 16 O. Please compare the dollar amounts in Exhibit
- 17 No. 1 to your testimony with Appendix 2, 2023 DSM expenses
- 18 by funding source (dollars), of the DSM 2023 Annual Report.
- 19 A. For clarity and ease of understanding, Exhibit
- 20 No. 1 ties to Appendix 2, which is found on page 184 of the
- 21 DSM 2023 Annual Report. The first column of Appendix 2
- 22 labeled "Idaho Rider" and the first column of Exhibit No. 1
- 23 labeled "Rider Expenses" match at the row labeled "Total
- 24 Expenses" in Exhibit No. 1 and "Grand Total" in Appendix 2
- in the amount of \$30,229,460. All values in Exhibit No. 1

- 1 represent DSM expenses for the Idaho service area only.
- 2 Three prior year-end accounting adjustments and two current
- 3 year-end accounting adjustments were necessary to
- 4 accurately arrive at the total 2023 expenses for purposes
- 5 of the prudence determination. These five adjustments are
- 6 listed in Exhibit No. 1 under the Adjustments section as
- 7 2022 Commercial & Industrial Overhead, 2022 Residential
- 8 Energy Efficiency Education Initiative, 2022 Residential
- 9 Energy Efficiency Overhead, 2023 Irrigation Peak Rewards,
- 10 and 2023 Residential New Construction.
- 11 Q. Please describe the prior year-end accounting
- 12 adjustments included in Exhibit No. 1.
- 13 A. The first adjustment of \$6,998 was associated
- 14 with the C&I Energy Efficiency program where the expense
- 15 should have been charged to O&M instead of the Idaho Rider
- 16 in 2022. The correction to reduce Idaho Rider expenses was
- 17 made in 2023, and therefore \$6,998 needs to be added back
- 18 to avoid understating the 2023 prudence request.
- 19 The second adjustment of \$1,289 is associated with
- 20 Idaho activity for the Residential Energy Efficiency
- 21 Education Initiative that was incorrectly charged to O&M in
- 22 2022 instead of the Idaho Energy Efficiency rider. The
- 23 correction adding the expense to the Idaho Rider was made
- 24 in 2023, and therefore \$1,289 needs to be subtracted from

- 1 the 2023 prudence request because it was already deemed
- 2 prudent by the Commission in the 2022 request.
- The final adjustment of \$89,680 was associated with
- 4 a program administration fee the Company paid in 2022 that
- 5 was refunded in 2023 due to services not being rendered.
- 6 The correction to reduce Idaho Rider expenses was made in
- 7 2023, and therefore, \$89,680 needs to be added back to
- 8 avoid understating the 2023 prudence request.
- 9 O. Please describe the current year-end
- 10 accounting adjustments included in Exhibit No. 1.
- 11 A. Two accounting adjustments to the Rider for
- 12 2023 were identified through Idaho Power's year-end review
- 13 of expenses and the corrections were made after the 2023
- 14 year-end financial books were closed.
- The first adjustment results in a reduction of
- 16 \$1,771 which was related to expenses associated with the
- 17 Irrigation Peak Rewards program that should have been
- 18 charged to O&M, rather than the Idaho Rider.
- 19 The second adjustment results in an addition of \$194
- 20 associated with the Residential New Construction program
- 21 where the expense was initially charged to the Oregon Rider
- 22 instead of the Idaho Rider.
- 23 O. What amount of Rider-funded employee DSM-
- 24 related labor expense did the Company incur in 2023?

- 1 A. The 2023 total Rider-funded DSM employee labor
- 2 expense incurred by the Company was \$3,625,290.
- 3 O. What amount of 2023 DSM-related labor is the
- 4 Company requesting be funded through the Rider?
- 5 A. The Company is requesting \$3,449,976 in 2023
- 6 DSM labor expense be collected through the Rider. This
- 7 amount is appropriately recovered through the Rider as it
- 8 is equal to the Commission's authorized labor cost cap
- 9 detailed in Order Nos. 34874^2 and $35270.^3$ The actual 2023
- 10 DSM labor expense was \$175,313 over the cap as detailed in
- 11 Table 2 below.

Table 2. Labor Expense Calculation

24.14
140,545
1.02
143,356
24.07
,449,976
,625,290
175,313)
;

- 12 *24.14 and 24.07 are rounded values.
- 13 //
- 14 //
- 15 //

² In the Matter of Idaho Power Company's Application for a Determination of 2019 Demand-Side Management Expenses as Prudently Incurred, Case No. IPC-E-20-15, Order No. 34874, p. 5 (Dec. 18, 2020).

³ In the Matter of Idaho Power Company's Application for a Determination of 2020 Demand-Side Management Expenses as Prudently Incurred, Case No. IPC-E-21-04, Order No. 35270, p. 9 (Dec. 27, 2021).

- 1 Q. What was the year-end 2023 balance of the
- 2 Rider?
- 3 A. The Rider account balance on December 31,
- 4 2023, had a positive, or over-collected, balance of
- 5 \$700,361 compared to an under-collected balance of
- 6 \$3,767,319 on December 31, 2022. Table 3 below shows the
- 7 January 2023 beginning balance, funding plus accrued
- 8 interest, expenses, and the ending balance as of December
- 9 31, 2023.

10 Table 3. Idaho Energy Efficiency Rider (January-December 11 2023)

Idaho Energy Efficiency Rider	
2023 Beginning Balance	\$ (3,767,319)
2023 Funding plus Accrued Interest as of 12/31/23	 34,697,140
Total 2023 Funds	30,929,821
2023 Expenses as of 12/31/23	 (30,229,460)
Ending Balance as of 12/31/23	\$ 700,361

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III. 2023 COST-EFFECTIVENESS OVERVIEW

- Q. What is Idaho Power's overall goal when it
- 15 comes to DSM cost-effectiveness tests?
- 16 A. Idaho Power strives to ensure that DSM funds
- 17 collected from customers are utilized to support the
- 18 pursuit of cost-effective energy efficiency and demand
- 19 response programs, with the limited exception of certain
- 20 policy considerations. This goal is achieved by applying a
- 21 multi-step process. Prior to the actual implementation of
- 22 energy efficiency or demand response programs, Idaho Power

- 1 performs a preliminary cost-effectiveness analysis to
- 2 assess whether a potential program design or measure will
- 3 be cost-effective from the perspective of customers as well
- 4 as the Company. Idaho Power measures cost-effectiveness
- 5 under three tests: the UCT, the TRC test, and the PCT. A
- 6 review of each test allows for an economic assessment of
- 7 the life-cycle costs and benefits of a DSM investment from
- 8 the perspective of DSM program participants, Idaho Power,
- 9 and non-participating customers.
- 10 Idaho Power also reviews the cost-effectiveness
- 11 results for each program and measure on an annual basis to
- 12 determine whether a program should continue or be modified
- 13 so it remains cost-effective on an ongoing basis. If a
- 14 measure or program is identified as non-cost-effective,
- 15 Idaho Power seeks EEAG input before making its
- 16 determination on modifying, continuing, or discontinuing an
- 17 offering.
- 18 The cost-effectiveness test methodologies and
- 19 assumptions are described in more detail in the first pages
- 20 of Supplement 1, included in Attachment 1 to the
- 21 Application in this proceeding.
- 22 Q. Does Idaho Power believe its application of
- 23 the standard economic tests is consistent with Commission
- 24 directives?

- 1 A. Yes. Idaho Power believes its application of
- 2 the three economic tests is consistent with prior
- 3 Commission directives, as described in Order No. 33365:4
- 4 We thus find it reasonable for the Company to 5 continue screening potential programs using 6 each test as a quideline, and to advise us on 7 how the Company's programs fare under each 8 test. When the Company ultimately seeks to 9 prudent investment recover its 10 programs, however, we believe the Company may 11 (but need not exclusively) emphasize the UCT-12 and that test's focus on Company-controlled 13 benefits and costs-to argue whether 14 programs were cost-effective. As always, the 15 Company ultimately must persuade us that its 16 program investments were prudent under the 17 totality of the circumstances.

- 19 Because Idaho Power must ultimately demonstrate to
- 20 the Commission that its program investments were prudent
- 21 under "the totality of the circumstances", the Company
- 22 continues to evaluate performance from the three
- 23 perspectives.

24 A. 2023 Cost-Effectiveness Results

- Q. What were the results of the 2023 cost-
- 26 effectiveness analyses?
- 27 A. Exhibit No. 2 to my testimony, 2023 Cost-
- 28 Effectiveness Summary by Program, Sector, and Portfolio,
- 29 shows the results of the UCT, TRC test, and PCT for every

 $^{^4}$ In the Matter of the Application of Idaho Power Company for a Determination of 2014 Demand-Side Management Expenditures as Prudently Incurred, Case No. IPC-E-15-06, Order No. 33365, p. 9-10 (Aug. 28, 2015).

- 1 energy efficiency program aggregated by sector and for the
- 2 overall portfolio. As shown in Table 4 below, the overall
- 3 DSM Portfolio achieved benefit/cost ratios greater than 1.0
- 4 for each of the three cost-effectiveness tests. All three
- 5 of the program sectors achieved benefit/cost ratios greater
- 6 than or equal to 1.0 from the UCT and PCT perspectives with
- 7 the Residential Sector having a TRC less than 1.0.

8 Table 4. 2023 Benefit/Cost by Sector & Portfolio

Sector	Utility Cost Test (UCT)	Total Resource Cost (TRC) Test	Participant Cost Test (PCT)
Residential*	1.12	0.95	3.38
Commercial/Industrial	2.74	1.48	1.63
Irrigation	2.06	2.22	2.29
Portfolio*	2.06	1.51	1.89

^{*}Does not include Weatherization Assistance for Qualified Customers Program

- 9
- 10 Q. Did the Company quantify the Residential
- 11 Sector and DSM Portfolio cost-effectiveness, including the
- 12 costs and benefits of the Weatherization Assistance for
- 13 Qualified Customers ("WAQC") program?
- 14 A. Yes. Table 5 below shows the cost-
- 15 effectiveness of the Residential Sector and the Overall DSM
- 16 Portfolio with and without the WAQC program included.

17 Table 5. Residential and Portfolio Cost-Effectiveness with

18 and without WAQC

Sector	WAQC Not Included			WAQC Included			
Sector	UCT	TRC	PCT	UCT	TRC	PCT	
Residential	1.12	0.95	3.38	0.87	0.74	2.73	
Portfolio	2.06	1.51	1.89	1.97	1.47	1.88	

- 1 While the WAOC program remains non-cost-effective
- 2 from an economic perspective, it provides real savings to
- 3 customers that would otherwise likely be unable to afford
- 4 to weatherize their homes and offers health and safety
- 5 benefits to customers in need that are not quantified
- 6 through the economic tests.
- 7 Q. What assumptions were utilized to calculate
- 8 the sector and portfolio cost-effectiveness for 2023?
- 9 A. Idaho Power relies on research conducted by
- 10 third parties to obtain savings and cost assumptions for
- 11 various measures. The Company fixes savings assumptions
- 12 when budgets and goals are established for the next
- 13 calendar year unless codes and standards change, or program
- 14 updates necessitate a need to use updated savings. The
- 15 remaining inputs are obtained from the Company's IRP
- 16 planning process. Because the 2021 IRP was the most
- 17 recently acknowledged IRP at the time 2023 DSM program
- 18 planning occurred, Idaho Power used the avoided costs from
- 19 the 2021 IRP in its cost-effectiveness analysis.
- 20 To calculate the sector cost-effectiveness, Idaho
- 21 Power includes the benefits and costs associated with
- 22 programs that produce quantifiable energy savings. The
- 23 portfolio cost-effectiveness is the sum of all energy
- 24 efficiency activities, including those that do not have
- 25 savings associated with them, such as overhead expenses.

- 1 Ο. What are the cost-effectiveness results for
- 2 each of the Company's DSM programs?
- 3 As reflected in Exhibit No. 2 to my testimony, Α.
- 2023 Cost-Effectiveness Summary by Program, Sector, and 4
- Portfolio, on an individual program basis, 9 of the 15 5
- energy efficiency programs offered in Idaho for which the 6
- 7 Company calculates cost-effectiveness had benefit/cost
- 8 ratios greater than 1.0 under the UCT.
- 9 It should be noted that the PCT ratios cannot be
- 10 calculated for programs that do not have a direct customer
- cost, and the PCT is shown as "N/A" in Exhibit No. 2 for 11
- 12 those programs. Additionally, the new Multifamily Energy
- Efficiency Program has "N/A" for all benefit/costs ratios 13
- 14 due to the fact the program launched on November 1, 2023
- 15 and did not realize any savings/benefits during the
- 16 remainder of the year. The details of the other
- 17 calculations are found in Supplement 1 of the DSM 2023
- 18 Annual Report.
- Did Idaho Power calculate cost-effectiveness 19 Ο.
- 20 for each measure within each energy efficiency program it
- 2.1 offers?
- 22 Α. Yes. In 2023, Idaho Power evaluated the
- benefits and costs of 295 measures. The results of these 23
- calculations, along with measure assumption details and 24

- 1 source documentation, can be found in Supplement 1 to the
- 2 DSM 2023 Annual Report.
- 3 Q. How did Idaho Power address any individual
- 4 measures that are not cost-effective based on one or more
- 5 tests?
- 6 A. The cost and benefit values used in the
- 7 various analyses are based on markets, technologies,
- 8 economic inputs, savings estimates, and cost estimates,
- 9 which can change over time. When a measure is identified as
- 10 non-cost-effective at a specific point in time, Idaho Power
- 11 first evaluates whether the inputs used in the calculations
- 12 are still applicable. Then the Company determines if the
- 13 measure parameters should be modified or if the measure
- 14 should be eliminated altogether. For additional detail on
- 15 measure analysis, please refer to Supplement 1 to the DSM
- 16 2023 Annual Report.

17 B. Non-Cost-Effective Programs

18 1. Income Qualified Weatherization

- 19 Q. Please explain what drivers influence the
- 20 cost-effectiveness results for the WAQC and Weatherization
- 21 Solutions for Eligible Customers ("Solutions") programs?
- 22 A. The WAQC and Solutions programs provide real
- 23 and substantial per home savings, but due to the costs of
- 24 comprehensive whole-house weatherization, it is difficult
- 25 for the value of the savings to outweigh the costs. The

- 1 weatherization services provided through the WAQC program
- 2 are consistent with the Idaho State Weatherization
- 3 Assistance Program guidelines, and both the WAQC and
- 4 Solutions programs are offered at no charge to the
- 5 participant. Please refer to pages 88 and 98 in the DSM
- 6 2023 Annual Report for the savings, costs, and the number
- 7 of homes weatherized in 2023.
- 8 Q. Does Idaho Power plan to continue offering the
- 9 WAQC and Solutions programs in the future?
- 10 A. Yes. While the Company has identified that the
- 11 programs are not cost-effective under the UCT, unless the
- 12 Commission directs otherwise, Idaho Power will continue to
- 13 offer them to the Company's limited-income customers on an
- 14 ongoing basis. The Company will also continue to consult
- 15 the EEAG and weatherization managers who oversee the
- 16 weatherization work to look for ways to improve outreach
- 17 and the cost-effectiveness of these programs as
- 18 opportunities are available.

19 **2.** Rebate Advantage

- 20 O. What were the cost-effectiveness results for
- 21 the Rebate Advantage program?
- 22 A. As shown in Exhibit No. 2, the Rebate
- 23 Advantage Program achieved a UCT ratio of 0.98 and a TRC
- 24 ratio of 0.93. The program was just slightly under 1.0 from
- 25 the UCT prospective, which was primarily driven by the

- 1 updated avoided costs from the 2021 IRP used to evaluate
- 2 the cost-effectiveness for the 2023 program year. The
- 3 Rebate Advantage program was found to be cost effective in
- 4 2022, with a UCT ratio of 1.18, based on the avoided costs
- 5 from the then-most recently acknowledged IRP, which was the
- 6 2019 Second Amended IRP at the time 2022 DSM program
- 7 planning occurred.
- 8 Notably, the savings assumptions between the 2022
- 9 and 2023 program years remained the same for the Rebate
- 10 Advantage program. However, because the life cycle of
- 11 program measures range between 43 and 45 years, the
- 12 decrease in the avoided costs in later years in the 2021
- 13 IRP, as compared to the 2019 Second Amended IRP,
- 14 contributed to the decline of the program's cost-
- 15 effectiveness from 2022 to 2023. For 2024, the Company
- 16 anticipates the Rebate Advantage program will be cost-
- 17 effective because the 2023 IRP avoided costs were used for
- 18 2024 program planning and will therefore be used to
- 19 evaluate 2024 program cost-effectiveness. The 2023 IRP
- 20 avoided costs are greater than the 2021 IRP avoided costs
- 21 through 2034 along with an increased capacity benefit,
- 22 which is why the Company is optimistic the Rebate Advantage
- 23 program will be cost-effective going forward.
- 24 //
- 25 //

1 3. Shade Tree Project

- Q. What were the cost-effectiveness results for
- 3 the Shade Tree Project?
- 4 A. As shown in Exhibit No. 2 the Shade Tree
- 5 Project achieved a UCT ratio of 0.31 and a TRC ratio of
- 6 0.42 for the 2023 program year as compared to UCT and TRC
- 7 ratio of 1.02 and 1.21 for 2022, respectively. This was
- 8 driven by the results of the impact evaluation conducted in
- 9 2023 that significantly reduced the savings from how the
- 10 Company had previously calculated them. The 2023 cost-
- 11 effectiveness ratios also include the expenses associated
- 12 with the program's evaluation conducted in 2023. If the
- 13 evaluation expenses were removed from the program's cost-
- 14 effectiveness calculations, the UCT and TRC would be 0.33
- 15 and 0.45 respectively.
- 16 Q. Please explain the drivers contributing to the
- 17 decrease in overall savings.
- 18 A. The third-party evaluator identified two main
- 19 drivers contributing to a decrease in overall savings: (1)
- 20 an increased tree mortality rate, and (2) the introduction
- 21 of a heating penalty as described below.
- The mortality rate of trees in certain parts of the
- 23 state turned out to be higher than previously expected,
- 24 where trees did not survive after being planted at a
- 25 customer's residence or were not planted at all.

- 1 The evaluator also recommended applying a heating
- 2 penalty for electrically heated homes to account for the
- 3 additional heating that would be needed in the cooler
- 4 months due to the shade provided by the tree. Savings were
- 5 reduced by subtracting the additional energy needed to heat
- 6 the home in the cooler months from the energy benefits of
- 7 the tree's shade in the warmer months. Adding this penalty
- 8 greatly reduced total savings on electrically heated homes.
- 9 Q. Has the Company discussed the status of the
- 10 program with EEAG?
- 11 A. The Company received the preliminary Shade
- 12 Tree Project evaluation report on January 12, 2024 and
- 13 briefly discussed the preliminary evaluation results with
- 14 its EEAG at the February 8, 2024, EEAG meeting. The Company
- 15 has engaged in discussions with the third-party evaluator
- 16 that conducted the 2023 impact evaluation to assess
- 17 possible cost-effectiveness improvement recommendations.
- 18 Q. Does the Company anticipate continuing the
- 19 program through 2024?
- 20 A. Yes. Prior to receiving the evaluation results
- 21 and based on the information available to the Company at
- 22 that time, Idaho Power contractually committed to the 2024
- 23 Shade Tree Project events. The vendor requires a commitment
- 24 at least a year in advance in order to plant and grow the
- 25 trees to the preferred size for the events. However, the

- 1 recently obtained information will better inform decisions
- 2 about the future of the program. The Company plans to share
- 3 this information at the May EEAG meeting and consult with
- 4 EEAG on potential next steps.

5 4. Heating and Cooling Efficiency Program

- 6 Q. What were the cost-effectiveness results for
- 7 the Heating and Cooling Efficiency program?
- A. As shown in Exhibit No. 2, the Heating and
- 9 Cooling Efficiency Program achieved a UCT of 0.94 and a TRC
- 10 of 0.40 as compared to UCT and TRC ratio of 0.98 and 0.30
- 11 for 2022, respectively.
- 12 Q. What was the primary contributor to the
- 13 program not being cost-effective?
- 14 A. The main driver of the difference was the
- 15 decrease in overall savings, which was largely due to
- 16 updates in savings assumptions by the Regional Technical
- 17 Forum ("RTF"). The RTF is the source of most measure
- 18 savings assumptions within the program and many of those
- 19 assumptions changed between 2022 and 2023. The savings
- 20 decrease was primarily driven by two measures within the
- 21 program: smart thermostats and air-source heat pumps.
- 22 Smart thermostats made up 45 percent of the total
- 23 program participation and 14 percent of the total savings.
- 24 With the new RTF assumptions, the per unit savings declined

- 1 by between 24 percent and 65 percent compared to the
- 2 savings in 2022.
- 3 Air-source heat pumps made up 17 percent of the
- 4 total program participation and 44 percent of the total
- 5 savings. On average, the per unit savings for air-source
- 6 heat pump measures declined by nearly 12 percent as
- 7 compared to 2022.
- 8 Additionally, ductless heat pumps made up 16 percent
- 9 of the program participation and 19 percent of the total
- 10 savings. While the savings assumptions did not change year
- 11 over year, the average savings per unit declined by nearly
- 12 16 percent due to the heating zone locations of the
- 13 participants in 2023 versus 2022. Savings vary by heating
- 14 zones and the participants in 2023 were in heating zones
- 15 with lower savings.
- 16 Q. Does Idaho Power expect the program to be
- 17 cost-effective going forward?
- 18 A. Yes. In November 2023, Idaho Power modified
- 19 the Heating & Cooling Efficiency program based on the
- 20 updated RTF savings and analyzed the program with the new
- 21 DSM avoided costs from the most recently filed 2023 IRP.
- 22 With these changes, the program is expected to be cost-
- 23 effective in 2024 and beyond.
- 24 //
- 25 //

- 5. Small Business Direct Install ("SBDI") Program
- Q. What were the cost-effectiveness results for
- 3 the SBDI Program?
- 4 A. As shown in Exhibit No. 2, the SBDI Program
- 5 achieved a UCT of 0.97 and a TRC of 1.48 as compared to UCT
- 6 and TRC ratio of 0.95 and 1.50 for 2022, respectively. The
- 7 2023 cost-effectiveness ratios also include the expenses
- 8 associated with the program's evaluation conducted in 2023.
- 9 If the evaluation expenses were removed from the program's
- 10 cost-effectiveness calculations, the UCT and TRC would be
- 11 1.08 and 1.64, respectively.
- 12 Q. What was the primary contributor to the
- 13 program not being cost-effective?
- 14 A. The short three-month operation of the program
- 15 before it was discontinued on March 31, 2023, along with
- 16 the costs associated with evaluation, were the primary
- 17 reasons the SBDI program was not cost-effective in the 2023
- 18 program year.
- 19 Q. Why did the Company complete an evaluation in
- 20 2023 if it already planned to end the program?
- 21 A. Because all program savings came from lighting
- 22 measures, the Company had previously decided not to
- 23 continue the program past the contract end-date with the
- 24 vendor as it had determined that it would not be cost-
- 25 effective in the longer term. However, after consultation

- 1 with its EEAG during 2022 and into 2023, the Company
- 2 decided to conduct an impact evaluation on the program in
- 3 2023 to potentially inform a new small business targeted
- 4 energy efficiency program in the future. The Company is
- 5 exploring the potential to launch an updated and cost-
- 6 effective small business lighting energy efficiency program
- 7 in the near future based on the 2023 SBDI evaluation
- 8 findings and further discussions and feedback from the EEAG
- 9 in 2024.

10 C. Demand Response Cost-Effectiveness

- 11 Q. Does Idaho Power evaluate cost-effectiveness
- 12 for its three demand response programs?
- 13 A. Yes. The methodology approved in Order No.
- 14 353365 is used to determine the cost-effectiveness of the
- 15 demand response ("DR") programs and sets the maximum
- 16 avoided cost value. In accordance with the approved
- 17 methodology, the 2023 cost-effectiveness threshold for
- 18 demand response is \$84.57 per kW year.
- 19 O. How was the \$84.57 determined?
- 20 A. Using the approved method, the avoided cost
- 21 calculation for the demand response programs is as follows:
- 22 //

 $^5\,\text{In}$ the Matter of Idaho Power Company's Application for Approval to Modify its Demand Response Programs, Case No. IPC-E-21-32, Order No. 35336, p. 9-10 (Mar. 4, 2022).

- 1 (Levelized Fixed Costs Additional Benefits)
- 2 x Effective Load Carrying Capacity ("ELCC") of Annual
- 3 Demand Response Capacity Compared to Proxy Resource
- 4 = \$ per kW year Demand Response Avoided Costs
- 5 Each of the three components have been updated and
- 6 are:
- 7 1. From the 2021 IRP, the 2023 levelized fixed
- 8 cost value of a Simple-Cycle Combustion Turbine ("SCCT")
- 9 was determined to be \$134.63 per kW per year.
- 10 2. From the 2021 IRP, to determine the
- 11 additional ancillary benefits provided by the SCCT compared
- 12 to DR, an analysis was performed where DR was replaced with
- 13 an equivalent SCCT and the fixed costs of the SCCT were
- 14 removed from the model. The result of this analysis showed
- 15 there were no additional benefits associated with the SCCT
- 16 because the cost of the fuel and SCCT plant Operations and
- 17 Maintenance ("O&M") required to meet the demand response
- 18 demand.
- 19 3. The updated ELCC of approximately 316 MW of DR
- 20 capacity compared to a SCCT utilizing 2021 IRP assumptions
- 21 is 62.82 percent.
- $22 \qquad (\$134.63 \$0.00) * 62.82\% =$
- 23 \$84.57 per kW year Demand Response Avoided Cost
- 24 Additional details of the methodology are included
- 25 in Supplement 1.

- 1 O. What were the total and per kW costs of the
- 2 Company's demand response programs?
- 3 A. In 2023, the system-wide cost of operating the
- 4 three demand response programs was approximately \$11.3
- 5 million (\$8.9 million of incentives and \$2.4 million of
- 6 other costs). The amounts attributable to the Idaho-only
- 7 jurisdiction were \$10.7 million (\$8.4 million of incentives
- 8 and \$2.3 million of other costs). Table 6 below shows the
- 9 2023 dollar per kW year costs for each program and the
- 10 overall demand response portfolio assuming the programs
- 11 were dispatched for the maximum 60 hours. Idaho Power
- 12 estimates that if the three programs were dispatched for
- 13 the full 60 hours allowed, the total costs would have been
- 14 approximately \$12.9 million on a system-wide basis.

15 Table 6. Demand Response Program 2023 \$ per kW year

Program	\$ per kW year
Residential A/C Cool Credit	\$29.93
C&I Flex Peak	\$36.40
Irrigation Peak Rewards	\$42.57
Total Demand Response Portfolio	\$40.80

- 17 Q. Were the demand response programs cost-
- 18 effective?
- 19 A. Yes. All three of the Company's demand
- 20 response programs, as well as the demand response
- 21 portfolio, had a cost per kW less than the 2023 threshold
- of \$84.57, meaning the programs and the portfolio were
- 23 cost-effective.

- 1 O. Does Idaho Power have a plan to evaluate the
- 2 avoided cost equation used to determine the cost-
- 3 effectiveness of the Company's demand response programs?
- 4 A. Yes. The Company believes there should be
- 5 further discussions regarding the best method(s) for
- 6 evaluating the Company's DR programs and commits to working
- 7 with Staff and stakeholders to this end. Through the
- 8 Company's ongoing evaluation conducted to date utilizing
- 9 the cost-effectiveness methodology that was approved by the
- 10 Commission in Order No. 35336 in Case No. IPC-E-21-32,
- 11 Idaho Power has identified several different methods that
- 12 could potentially be used to evaluate DR cost-effectiveness
- 13 moving forward. Idaho Power anticipates engaging with Staff
- 14 and potentially other stakeholders on this topic in the
- 15 coming months as it explores the potential expansion of
- 16 other DR opportunities.
- 17 In the event the Company determines that changes to
- 18 the DR programs are needed, having an avoided cost
- 19 calculation recommendation that was collaboratively
- 20 developed would help ensure a proposal that balances the
- 21 costs and benefits of DR is brought before the Commission
- 22 for its review.
- 23 //
- 24 //
- 25 //

1 IV. EVALUATION ACTIVITY OVERVIEW

- Q. What is the Company's approach to DSM program
- 3 evaluation?
- 4 A. To ensure the ongoing cost-effectiveness of
- 5 programs through validation of energy savings and demand
- 6 reduction, and to guide the efficient management of its
- 7 programs, the Company utilizes evaluations conducted by
- 8 third-party contractors chosen through a competitive
- 9 bidding process. Idaho Power uses industry-standard
- 10 protocols, internal analyses, and regional and national
- 11 studies to inform its internal and external evaluation
- 12 efforts. The Company has generally conducted impact
- 13 evaluations every three years, and process evaluations for
- 14 relatively new programs, or when a program has significant
- 15 changes. Supplement 2 to the DSM 2023 Annual Report
- 16 provides additional information regarding how Idaho Power
- 17 evaluates its programs.
- 18 O. How does Idaho Power utilize the evaluations
- 19 described above?
- 20 A. Idaho Power uses the results of its
- 21 evaluations to inform decisions related to program
- 22 improvement, to compare processes to industry best
- 23 practices, and to benchmark and validate reported program
- 24 savings.
- 25 //

- Q. What evaluation activities took place in 2023?
- 2 A. In addition to the annual cost-effectiveness
- 3 analyses that the Company conducts for each program, Idaho
- 4 Power contracted with several third-party evaluators to
- 5 conduct impact and process evaluations in 2023. Evaluations
- 6 conducted by these evaluators were on the following
- 7 programs:
- Impact and process evaluation on the Home Energy
- 9 Audit Program.
- Impact evaluations on Residential New
- 11 Construction Program, Shade Tree Project, Small
- Business Direct Install, and the Irrigation
- 13 Efficiency Rewards Program.
- In addition to these third-party evaluations, Idaho
- 15 Power completed internal analyses of the Irrigation Peak
- 16 Rewards, C&I Flex Peak, and A/C Cool Credit demand response
- 17 programs.
- The impact evaluations that were conducted in 2023
- 19 analyzed reported savings from the 2022 program year.
- 20 Realization rates were as follows:
- Home Energy Audit: 102 percent.
- Residential New Construction Program: 100
- percent.
- Shade Tree Project: 70 percent.
- Small Business Direct Install: 100 percent.

- Irrigation Efficiency Rewards: 97.4 percent.
- 2 The final reports for these evaluations, and the
- 3 market effects evaluations conducted by NEEA, are included
- 4 in Supplement 2 to the DSM 2023 Annual Report.
- 5 Q. Does Idaho Power have a DSM program evaluation
- 6 plan for 2024-2025?
- 7 A. Yes. The evaluation plan is included as
- 8 Exhibit No. 3 to my testimony and is also included in
- 9 Supplement 2 to the DSM 2023 Annual Report. In 2024, Idaho
- 10 Power's evaluation plan includes the following third-party
- 11 evaluations:
- 12 Impact and process evaluations for Rebate
- 13 Advantage and C&I Energy Efficiency Program
- 14 Custom Projects.
- Impact evaluation for Educational Distributions.
- 16 V. STAKEHOLDER INPUT
- 17 O. What is the EEAG?
- 18 A. In 2002, Idaho Power formed the EEAG to
- 19 provide input on enhancing existing DSM programs,
- 20 recommending new energy efficiency measures, and
- 21 implementing energy efficiency programs. Members include
- 22 customer representatives from residential, irrigation,
- 23 commercial, and industrial sectors as well as technical
- 24 experts, representatives for limited-income individuals,
- 25 environmental organizations, state agencies, county and

- 1 city governments, the Commission, the Public Utility
- 2 Commission of Oregon, and Idaho Power.
- 3 O. What is the structure of EEAG meetings?
- 4 A. The EEAG generally meets quarterly in-person
- 5 at Idaho Power's corporate offices and through webinars as
- 6 needed. Three EEAG meetings were held in person with a
- 7 virtual option and one EEAG meeting was held virtually in
- 8 2023. The Company believes that member participation and
- 9 input remained strong during the 2023 EEAG meetings.
- 10 The agenda during EEAG meetings is varied, but
- 11 typically includes program and project updates, new energy
- 12 efficiency program or measure proposals, marketing methods,
- 13 specific measure details including cost-effectiveness, the
- 14 status of energy efficiency expenses, and general
- 15 information on DSM issues. When appropriate, the Company
- 16 invites experts to speak on evaluations, research, and
- 17 other topics of interest to enhance EEAG's understanding.
- 18 Q. How did Idaho Power solicit guidance from the
- 19 EEAG during the 2023 program year?
- 20 A. In 2023, the Company held four EEAG meetings,
- 21 and during these meetings, Idaho Power discussed and
- 22 requested recommendations on a broad range of DSM issues.
- 23 As explained in greater detail in the DSM 2023 Annual
- 24 Report, the list below includes some of the topics Idaho

- 1 Power worked with the EEAG on for development, design,
- 2 promotion, or input:

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- 3 • Multifamily Energy Efficiency Program: With the sunset of the previous direct install Multifamily 4 5 Energy Savings program on December 31, 2022, the Company consulted with the EEAG to develop a new 6 7 cost-effective Multifamily Energy Efficiency program that has a robust list of measures but 8 9 now requires customers to bear some of the cost. 10 The Company was able to successfully launch the new program on November 1, 2023 and received 11 eight preliminary applications. 12
 - C&I Flex Peak Incentive Structure: After receiving feedback from customers in the C&I Flex Peak demand response program and conducting its own internal analysis, the Company requested feedback from the EEAG on a new incentive structure for the program that would reduce the severity of the performance penalty, which in turn, will incentivize increased participation in the C&I Flex Peak demand response program. The Company filed its request to update the incentive structure based on EEAG's input on October 2, 2023, in Case No. IPC-E-23-24.

1 • Avoided Costs Used in DSM Program Planning and 2 Cost-Effectiveness: At the EEAG meeting on August 17, 2023, the Company presented its proposal to 3 use the avoided costs from the most recently 4 5 "filed" IRP rather than use the most recently "acknowledged" IRP for DSM program planning. The 6 7 EEAG supported the proposal and agreed with the premise that this would reduce the lag time 8 between when the avoided costs are updated and 9 10 used for program planning and cost-effectiveness evaluations. As a result, beginning with the 2024 11 12 program year, the Company will now be using the 13 most current IRP information available for its 14 DSM planning, evaluations, and analyses. 15 VI. CONCLUSION 16 Ο. Do you believe that the information contained 17 in this testimony and attached exhibits supports a prudence determination for 2023 DSM expenses? 18 19 Yes. Based on the DSM 2023 Annual Report, the Α. 20 testimony set forth above, and the attached exhibits, Idaho 21 Power respectfully requests the Commission determine that \$38,778,378 was prudently incurred for the acquisition of 22 23 demand-side resources in 2023.

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- 1 Q. Does this conclude your testimony?
- 2 A. Yes, it does.

ATTESTATION OF TESTIMONY
STATE OF IDAHO)
I, Robert Z. Thompson, having been duly sworn to
testify truthfully, and based upon my personal knowledge,
state the following:
I am employed by Idaho Power Company as a Regulatory
Analyst in the Regulatory Affairs Department and am
competent to be a witness in this proceeding.
I declare under penalty of perjury of the laws of
the state of Idaho that the foregoing pre-filed testimony
and exhibits are true and correct to the best of my
information and belief.
DATED this 15 th day of March 2024.
Robert J. Itompson
Robert Z. Thompson
SUBSCRIBED AND SWORN to before me this 15 th day of
March 2024.
Stacy Gust
848 S C. 184
Notary Public for Idaho Residing at Ada County Idaho
My commission expires: 11/02/2024

BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION CASE NO. IPC-E-24-11

IDAHO POWER COMPANY

THOMPSON, DI
TESTIMONY
EXHIBIT NO. 1

Idaho Power Company 2023 Idaho DSM Expenses and Adjustments for Prudence Filing

				Demand Response Program Incentives		
Expenses		Rider Expenses		Recorded in PCA		Total Expenses
Energy Efficiency/Demand Response						
Residential						
A/C Cool Credit	\$	1,536,873	\$	365,690	\$	1,902,563
Educational Distributions		880,568		-		880,568
Energy Efficient Lighting		278,610		-		278,610
Heating & Cooling Efficiency Program		593,407		-		593,407
Home Energy Audit		230,011		-		230,011
Home Energy Report Program		883,505		-		883,505
Multifamily Energy Efficiency		22,758		-		22,758
Rebate Advantage		130,233		-		130,233
Residential New Construction Program		195,102		-		195,102
Shade Tree Project		262,344		-		262,344
Weatherization Solutions for Eligible Customers		84,428		-		84,428
Commercial/Industrial						
Custom Projects		11,221,008		-		11,221,008
New Construction		2,139,603		-		2,139,603
Retrofits		3,002,681		-		3,002,681
Commercial Energy-Saving Kits		53,167		-		53,167
Flex Peak Program		135,731		694,935		830,665
Small Business Direct Install		357,404		-		357,404
Irrigation		, ,				, ,
Irrigation Efficiency		1,474,741		-		1,474,741
Irrigation Peak Rewards		616,755		7,394,482		8,011,237
Energy Efficiency/Demand Response Total	\$	24,098,928	\$	8,455,107	\$	32,554,034
Market Transformation		,000,020		5,155,151	<u> </u>	02,001,001
NEEA		2,589,987		_		2,589,987
Market Transformation Total	\$	2,589,987	\$	-	\$	2,589,987
Other Programs and Activities	-	_,,				_,
Commercial/Industrial Energy Efficiency Overhead		890,300		-		890,300
Energy Efficiency Direct Program Overhead		290,729		_		290,729
Residential Energy Efficiency Education Initiative		359,242		-		359,242
Residential Energy Efficiency Overhead		1,204,872		_		1,204,872
Other Programs and Activities Total	\$	2,745,144	\$		\$	2,745,144
Indirect Program Expenses	Ψ	2,140,144	Ψ		Ψ	2,140,144
Energy Efficiency Accounting & Analysis		952,424		_		952,424
Energy Efficiency Advisory Group		14,422		•		14,422
Special Accounting Entries		14,422		•		14,422
		(171 115)				(171 //5
Special Accounting Entries	•	(171,445)	•	•	ø	(171,445
Indirect Program Expenses Total	\$	795,401 30,229,460		0.455.407	\$	795,401
Total Expenses	\$	30,229,460	Þ	8,455,107	Þ	38,684,566
Adjustments						
· ·						
Prior year-end accounting adjustments:		0.000				0.000
2022 Commercial & Industrial Overhead (a)		6,998				6,998
2022 Residential Energy Efficiency Education Initiative (b)		(1,289)				(1,289
2022 Residential Energy Efficiency Overhead (c)		89,680				89,680
Current year-end accounting adjustments:						
2023 Irrigation Peak Rewards (d)		(1,771)				(1,771
2023 Residential New Construction (e)		194				194
2023 Prudence Filing Tota	ıl \$	30,323,272	\$	8,455,107	\$	38,778,378

⁽a) 2022 O&M expense initially charged to the Idaho Rider. The correction was made in 2023. (b) 2022 Idaho Rider expense initially charged to O&M. The correction was made in 2023.

⁽c) Program administration fee charged to the Idaho Rider in 2022 and refunded in 2023.

⁽d) 2023 0&M expense initially charged to the Idaho Rider. The correction was made in 2024.

⁽e) 2023 Idaho Rider expense initially charged to the Oregon Rider. The correction was made in 2024.

BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION CASE NO. IPC-E-24-11

IDAHO POWER COMPANY

THOMPSON, DI
TESTIMONY
EXHIBIT NO. 2

2023 Cost-Effectiveness Summary by Program, Sector, and Portfolio

	2023 Benefit/Cost Tests								
	Utility Cost Test	Total Resource	Participant Cost						
Program/Sector	(UCT)	Cost (TRC)	(PCT)						
Educational Distributions	1.76	2.07	N/A						
Energy Efficient Lighting ¹	1.69	1.51	4.07						
Heating & Cooling Efficiency Program	0.94	0.40	0.88						
Home Energy Reports	1.32	1.45	N/A						
Multifamily Energy Efficiency Program ²	N/A	N/A	N/A						
Rebate Advantage	0.98	0.93	4.23						
Residential New Construction	1.05	1.25	3.85						
Shade Tree Project	0.31	0.42	N/A						
Weatherization Assistance for Qualified Customers	0.14	0.23	N/A						
Weatherization Solutions for Eligible Customers	0.13	0.19	N/A						
Residential Energy Efficiency Sector ³	1.12	0.95	3.38						
Commercial and Industrial Energy Efficiency Program									
Custom Projects	2.91	1.44	1.41						
New Construction	2.78	2.74	3.81						
Retrofits	2.35	1.17	1.53						
Commercial Energy-Savings Kits ¹	1.02	1.17	N/A						
Small Business Direct Install ⁴	0.97	1.48	N/A						
Commercial/Industrial Energy Efficiency Sector ⁵	2.74	1.48	1.63						
Irrigation Efficiency	2.05	2.22	2.29						
Irrigation Energy Efficiency Sector ⁶	2.06	2.22	2.29						
Energy Efficiency Portfolio ⁷	2.06	1.51	1.89						

¹ Program closed June 30, 2023.

² Program launched on November 1, 2023 and incurred costs, but no savings were realized in 2023.

³ Residential sector cost-effectiveness excludes WAQC benefits and costs. If included, the UCT, TRC, and PCT would be 0.87, 0.74, and 2.73 respectively.

⁴ Program closed March 31, 2023.

⁵ Commercial/Industrial Energy Efficiency Sector cost-effectiveness ratios include savings and participant costs from Green Motors Rewinds.

⁶ Irrigation Energy Efficiency Sector cost-effectiveness ratios include savings and participant costs from Green Motors Rewinds.

⁷ Portfolio cost-effectiveness excludes WAQC benefits and costs. If included, the UCT, TRC, and PCT would be 1.97, 1.47, and 1.88 respectively.

BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION CASE NO. IPC-E-24-11

IDAHO POWER COMPANY

THOMPSON, DI
TESTIMONY
EXHIBIT NO. 3

Customer Relations and Energy Efficiency 2024-2025 Program Evaluation Plan

	2025	2024	2023	2022	2021	2020	2019	2018	2017	2016	2015 ¹	2014	2013	2012	2011	2010
Residential Energy Efficiency Programs																
Educational Distributions		-				I/P										
Energy House Calls							I/P								I	Р
Heating & Cooling Efficiency Program	I/P				I/P				I/P				Р	I		Р
Home Energy Audit			I/P						I			Р				
Home Energy Reports				ı		Р										
Multifamily Energy Savings Program								I/P								
Rebate Advantage		I/P				I				I/P					I	
Residential New Construction Program			I				I/P									
Shade Tree Project			I				0					Р				
Weatherization Assistance for Qualified Customers		0				0						0	Р	I		
Weatherization Solutions for Eligible Customers		0				0						0	Р	I		
Commercial/Industrial Energy Efficiency Programs																
Commercial Energy-Saving Kits				I/P												
Custom Projects		I/P			I/P			ı	Р			I/P			ı	Р
New Construction	I/P			I/P					Р	ı				I		Р
Retrofits	I/P			I/P					Р				Р			Р
Small Business Direct-Install			I			Р										
Irrigation Energy Efficiency Programs																
Irrigation Efficiency Rewards			I			I/P				I/P		P/O	I/P			Р
Demand-Response Programs																
A/C Cool Credit	I/P	0	0	0	I	0	Ī	0	0	I		I	0	Р	0	
Flex Peak Program	I/P	0	0	0	I/O	0	0	0	0	I/O	I/O		P/O		0	
Irrigation Peak Rewards	I/P	0	0	0	I/O	0	0	0	0	0	I/O	0	0		0	
-																

¹ Energy efficiency programs evaluated in 2015 have since been eliminated or combined into another program.

Evaluation Type: I = Impact, P = Process, O = Other	
Program not yet in existence	