



e-FILING REPORT COVER SHEET

COMPANY NAME:

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: RE177

Report is required by: OAR
 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 Advice No. 16-13
(For example, federal regulations, or requested by Staff)

Is this report associated with a specific docket/case? No Yes, docket number: RE177

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

Green Power Program Biennial 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.

LISA D. NORDSTROM
Lead Counsel
lnordstrom@idahopower.com

July 2, 2020

ELECTRONICALLY FILED

Public Utility Commission of Oregon
Filing Center
201 High Street SE, Suite 100
P.O. Box 1088
Salem, Oregon 97301

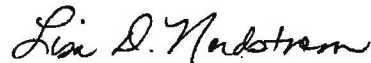
Re: 2020 Green Power Program Biennial Report

Attention Filing Center:

Pursuant to the reporting requirement approved in Advice No. 16-13, Docket No. RE 177, Idaho Power Company herewith transmits for filing its Biennial Green Power Report for 2020.

If you have any questions regarding this report, please contact Regulatory Analyst Kelley Noe at (208) 388-5736.

Sincerely,



Lisa Nordstrom

Enclosure

2020 GREEN POWER PROGRAM BIENNIAL REPORT

I. PURPOSE OF STATUS REPORT

In September 2016, Idaho Power Company (“Idaho Power” or “Company”) filed Tariff Advice No. 16-13 with the Public Utility Commission of Oregon (“Commission”) to modify its Schedule 62, Green Energy Purchase Program (“Program” or “Green Power Program”). The proposed modifications included: (1) replacing the existing Dollar Contribution Method with a block option and a 100 percent usage option; (2) instructing the broker for the Program to give preference to renewable energy credits (“RECs”) from sources located closest to or within Idaho Power’s service territory, when possible; (3) Idaho Power seeking Green-e certification of the RECs purchased through the broker; and (4) using up to 15 percent of the total Program funds for program marketing expenses to allow the Company to reach more customers.

In October 2016, the Commission accepted the requested changes. Additionally, the Company was directed to begin regular reporting to the Commission in a manner consistent with the report format and frequency of reporting detailed in Idaho docket IPC-E-16-13 and Order No. 33570. In Order No. 33570, the Idaho Commission directed the Company to submit a biennial Green Energy Prudency Report which includes the following information:

- Customer count under each participation option, by schedule
- Monthly RECs purchased
- Monthly revenue and expenses for Schedule 62
- Updated costs associated with re-certifying the RECs prior to retirement
- Summary of marketing activities and expenses
- Solar 4R Schools expenses
- Percentage of RECs purchased within Idaho Power's service territory
- Monthly funds transferred to the Power Cost Adjustment (PCA) from Idaho Power-owned REC purchases

II. PROGRAM DETAILS

The information provided herein includes data beginning January 2018 through December 2019.

A. Customer Count by Option and Rate Schedule

Table 1:

	<u>GP - 100% OPTION</u>				<u>GP - BLOCK OPTION</u>						Total Participants
	A- ID	C- ID	R- ID	R- OR	A- ID	C- ID	C- OR	I- ID	R- ID	R- OR	
2018											
January		6	447	3	2	45	1	5	1,585	20	2,114

February	6	392		2	38	1	4	1,428	8	1,879
March	4	449	3	2	47	1	4	1,533	13	2,056
April	5	436	2	2	39	1	5	1,502	13	2,005
May	6	490	2	2	46	1	6	1,542	16	2,111
June	8	509	2	2	41	1	2	1,509	11	2,085
July	7	575	2	2	47	1	4	1,604	15	2,257
August	11	603	3	2	46	1	2	1,605	13	2,286
September	8	588	3	1	40	1	3	1,520	11	2,175
October	8	618	2	2	48	1	4	1,633	20	2,336
November	14	630	4	2	40	1	2	1,598	15	2,306
December	14	642	4	2	47	1	3	1,562	19	2,294

	<u>GP - 100% OPTION</u>				<u>GP - BLOCK OPTION</u>						Total Participants
	A-ID	C-ID	R-ID	R-OR	A-ID	C-ID	C-OR	I-ID	R-ID	R-OR	
2019											
January		14	682	2	2	45	1	3	1,630	16	2,395
February		12	629	1	2	38	1	2	1,473	12	2,170
March		9	660	3	2	41	1	4	1,555	16	2,291
April		13	688	4	2	44	1	3	1,568	16	2,339
May		13	708	3	2	44	1	3	1,590	18	2,382
June		18	679	3	2	38	1	2	1,466	15	2,224
July		11	778	3	2	52	1	4	1,693	20	2,564
August		18	762	4	2	37		3	1,555	17	2,398
September		18	774	4	2	45		3	1,551	17	2,414
October		14	802	6	2	47		3	1,641	16	2,531
November		17	796	5	2	36		3	1,465	15	2,339
December	1	18	912	7	3	47		4	1,650	14	2,656

R - Residential
C - Commercial
I - Industrial
A - Agricultural

While monthly participation fluctuated over the last 24 months, as of December 2019, overall participation increased by 35 percent (or 698 new participants) from the December 2017 totals disclosed in the previous biennial report.

B. REC Purchases and Project Sources

Table 2: REC Purchases and Costs

Month	Year	RECs Needed (MWh)	Cost
January	2018	1,530.866	\$7,654.33

February	2018	1,727.471	\$8,637.36
March	2018	1,421.399	\$7,107.00
April	2018	1,396.138	\$6,980.69
May	2018	1,384.805	\$6,924.03
June	2018	1,336.334	\$6,681.67
July	2018	1,564.462	\$7,822.31
August	2018	1,723.287	\$8,616.44
September	2018	1,588.476	\$7,942.38
October	2018	1,497.846	\$7,489.23
November	2018	1,450.360	\$7,251.80
December	2018	1,525.690	\$7,628.45
January	2019	1,643.842	\$8,219.21
February	2019	1,712.089	\$8,560.45
March	2019	1,651.141	\$8,255.71
April	2019	1,641.899	\$8,209.50
May	2019	1,508.343	\$7,541.72
June	2019	1,396.006	\$6,980.03
July	2019	1,707.883	\$8,539.42
August	2019	1,752.964	\$8,764.82
September	2019	1,798.849	\$8,994.25
October	2019	1,643.827	\$8,219.14
November	2019	1,573.686	\$7,868.43
December	2019	1,857.554	\$9,287.77
Total		38,035.217	\$190,176.09

Table 2 above shows the monthly RECs needed for the Program and applies the REC cost of \$5¹ to the monthly REC need to calculate the monthly cost of RECs. A monthly general ledger report shows how much revenue was collected for the Green Power Program. RECs are then purchased for the previous month based on the funds collected.

One of the Program modifications approved by Order No. 33570 included sourcing RECs from the Northwest but giving preference to RECs from sources located closest to or within Idaho Power's service area, when possible. Table 3 below shows the project sources of RECs purchased for the Program for January 2018 through the end of 2019.

Table 3: Sources of RECs Purchased for Participants

2018

Facility Name	WREGIS ID²	RECs	Source	Facility State	IPC Area
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¹ The cost per REC from January 2018 to December 2019 was \$5. The REC cost was then applied to the monthly REC need to determine monthly REC expenses.

² The Western Renewable Energy Generation Information System (WREGIS) is an independent, renewable energy tracking system for the region covered by the Western Electricity Coordinating Council (WECC). WREGIS tracks

Fossil Gulch Wind Park	W831	1,341	wind	ID	Yes
Fossil Gulch Wind Park	W831	2,592	wind	ID	Yes
Fossil Gulch Wind Park	W831	3,018	wind	ID	Yes
Fossil Gulch Wind Park	W831	2,123	wind	ID	Yes
Grand View 5 East	W5070	6,689	solar	ID	Yes
Grand View 2 West	W5070	2,385	solar	ID	Yes
Total		18,148			

2019

Facility Name	WREGIS ID	RECs	Source	Facility State	IPC Area
Grand View 2 West	W5070	3,220	solar	ID	Yes
Orchard Ranch Solar LLC	W5373	1,124	solar	ID	Yes
Orchard Ranch Solar LLC	W5373	1,128	solar	ID	Yes
Simcoe Solar LLC	W5372	312	solar	ID	Yes
Simcoe Solar LLC	W5372	2,099	solar	ID	Yes
Simcoe Solar LLC	W5372	1,743	solar	ID	Yes
Simcoe Solar LLC	W5372	318	solar	ID	Yes
Fossil Gulch Wind Park	W831	173	wind	ID	Yes
Mountain Air Wind Projects	W2869	3,085	wind	ID	Yes
Payne's Ferry Wind Park	W1866	599	wind	ID	Yes
Yahoo Creek Wind Park	W1874	6,088	wind	ID	Yes
		19,889			

Of the RECs purchased, 100 percent were from projects within Idaho Power's service area. In both 2018 and 2019 there were no Idaho Power-owned RECs purchased for the Program, therefore no fund transfers to the PCA were required.

C. Monthly Revenue and Expenses

Table 4 below shows the monthly revenues received from Schedule 62 and the actual timing of Program expenses. Please note that the monthly expenses are inclusive of the monthly REC costs identified in Table 2.

Table 4: Program Revenue and Expenses by Month

2018

Monthly Revenues		Monthly Expenses*	
January	\$15,308.66	January	\$0.00
February	\$17,274.71	February	\$7,884.29
March	\$14,213.99	March	\$16,291.68
April	\$13,961.38	April	\$50,013.84
May	\$13,848.05	May	\$6,980.69

renewable energy generation from units that register in the system by using verifiable data and creating renewable energy certificates for this generation.

June	\$13,363.34	June	\$6,924.03
July	\$15,644.62	July	\$53,498.37
August	\$17,232.87	August	\$27,885.18
September	\$15,884.76	September	\$0.00
October	\$14,978.46	October	\$16,558.82
November	\$14,503.60	November	\$24,962.31
December	\$15,256.90	December	\$73,743.57
Total	\$181,471.34	Total	\$284,742.78

*In 2018, Solar 4R Schools project expenses totaled \$167,450.82 and included projects approved in previous years. These awardees faced delays to installing the solar arrays. The funds for these were reserved from previous years' revenue and are shown in the monthly expenses column to reflect when they were actually paid.

2019

Monthly Revenues		Monthly Expenses	
January	\$16,438.42	January	\$20,420.45
February	\$17,120.89	February	\$0.00
March	\$16,511.41	March	\$17,030.78
April	\$16,418.99	April	\$444.20
May	\$15,083.43	May	\$18,056.70
June	\$13,960.06	June	\$7,768.72
July	\$17,078.83	July	\$9,525.70
August	\$17,529.64	August	\$15,519.45
September	\$17,988.49	September	\$8,764.82
October	\$16,438.27	October	\$9,649.75
November	\$15,736.86	November	\$8,219.14
December	\$18,575.54	December	\$21,020.43
Total	\$198,880.83	Total	\$136,420.14

D. Green-e Certification Costs

As shown in Table 5 below, Green-e certification costs for 2018 totaled \$11,396.08, which included annual verification performed by an external auditor and participant updates to meet Green-e Energy certification requirements. The 2018 Green-e annual certification fee was paid in 2017, which was included in the previous biennial report. Green-e certification costs in 2019 totaled \$35,047.01, which included Green-e certification of \$24,360,³ annual verification by an external auditor and participant updates to meet Green-e Energy certification requirements.

Participant updates included notification of the Program and certification, the prospective product content label and historical product content label. The Company has provided the spring and summer participant updates as attachments 1 through 4 to this report.⁴ In

³ Certification costs paid in 2019 included both 2019 and 2020 Green-e certification costs.

⁴ Within each participant update, the product content label is included as required by Green-e.

2019, Program participants were offered the option to receive Program information electronically. Almost half of the participants opted to receive email communication, which reduced the cost to distribute the required updates.

Table 5: Green-e Certification Costs

	2018	2019
Green-e Certification	\$ -	\$ 24,360.00
External Audit	\$ 8,500.00	\$ 8,900.00
Participant Updates	\$ 2,896.08	\$ 1,787.01
	<u>\$ 11,396.08</u>	<u>\$ 35,047.01</u>

E. Marketing Expenses

In 2018, Program-funded marketing expenses totaled 8.9 percent of the total Program revenue (\$181,471.34). In 2019, Program-funded marketing expenses totaled 1.7 percent of the total Program revenue (\$198,880.83). In 2019, marketing expenses were reduced to reserve the funds for Solar 4R Schools projects.

The decrease in funds available for marketing is the result of the costs for Green-e certification and in-part Solar 4R Schools. As stated in the original filing, the Company may choose to use these funds to cover the increase in Program costs rather than change the tariff price to participants. Idaho Power will continue to look for the most cost-effective methods of marketing the Program.

In 2018, the marketing efforts for the Green Power Program included:

Marketing:

- Bill inserts to customers three months of the year (approximately 1,050,000 total inserts)
- One direct mail solicitation sent to approximately 25,000 households

Advertising:

- 10,000 households in the North End Neighborhood of Boise
- 20,000 impressions⁵ in Sun Valley Magazine
- 12,000 impressions in Natural Awakenings Magazine
- 6,646 customers reached from six Facebook posts throughout the year

In 2019, the marketing efforts for the Green Power Program included:

⁵ Impressions are when an advertisement or any other form of digital media renders on a user's screen. Impressions are not action-based and are merely defined by a user potentially seeing the advertisement, making it ideal for businesses intent on spreading brand awareness.

Marketing:

- Bill inserts to customers three months of the year (approximately 1,148,000 total inserts)
- Signage at Boise Green Bike station in Boise at downtown intersection of Main and 13th Street
- Email promotion on Earth Day sent to 8,000 customers with an open rate of 30%
- Sponsorship of Treefort Music Festival and booth at event promoting Green Power Program (includes booth and social media posts)
- Pop-up ad on Idaho Power customer's My Account page promoting Green Power Program
- Window clings promoting individual participation sent to Program participants

Advertising:

- 40,000 impressions in quarterly ads published in the North End Neighborhood of Boise
- 1,640,774 impressions from online digital ads
- 2,000 customers reached from Facebook post on Earth Day

F. Solar 4R Schools

As part of the Program design, Schedule 62 revenues are also used to support the Solar 4R Schools program (now called CE, Clean Energy Bright Futures). Solar 4R Schools (or CE), educates students about renewable energy by placing solar installations on school property, along with a data monitoring system, a curriculum package and teacher training. Since its inception, 22 schools throughout Idaho Power's service area have received solar PV systems through the program. Since 2018, projects have been completed at the following schools: St Mary's Catholic School (Boise 2019), Trail Wind Elementary School (Boise 2018), Boise High School (Boise 2018), Cascade School District (Cascade 2019), and Vallivue Middle School (Caldwell 2019). A new project, awarded in late 2019, is underway at Sage International School in Boise.

G. Solar-Only Option

In the Company's 2016 filing, Idaho Power indicated that it was investigating the addition of a solar-only option to the tariff as the Company had received informal feedback from customers that this option would be highly desirable. At the time of the Company's filing, Program RECs were sourced primarily from large-scale wind and a small portion from small solar projects. Since that time, the renewable sources REC blend has changed to 50 percent wind and 50 percent solar, which allows participants to support both wind and solar energy equally.

In the time since the Company filed to modify the Program, there has not been any additional formal or informal feedback requesting a solar-only option. When customers call Idaho Power to inquire about or sign up for the Program, the Customer Service Advisor (CSA) explains the

details of the program, which includes the renewable resource mix of 50 percent wind and 50 percent solar. The CSAs report that there hasn't been feedback on the resource mix indicating that customers would prefer a solar-only option. Additionally, participants receive three reminders per year of their green power mix, in the two newsletters' product content labels and in their personalized year-end impact report. New participants receive a welcome letter that explains the Program, including the energy mix. These communications include Company contact information that allow participants to reach out to the Company and provide feedback or ask questions about the Program. While the Company does receive feedback on the Program, the feedback has not been about the supply mix.

Because the REC blend from solar resources has increased and the Company has received no additional requests for such an option, the Company will pause any further monitoring of a solar-only option. If interest in such an option arises in the future the Company may pursue the option at that time.

Conclusion

Overall, Idaho Power believes the changes made to the Green Power Program were beneficial and the results of the 2018 and 2019 marketing efforts were successful as evidenced by Program growth of 35 percent. While the funds available for marketing have decreased due to increasing costs in other areas, Idaho Power will continue to pursue the most-effective ways to market the Program. Lastly, Idaho Power will no longer pursue a solar-only option due to the increase in solar RECs purchased for the Program and lack of interest in such an option but will maintain channels for customers to provide feedback and reevaluate in the future if customer preferences change.

IDAHO POWER COMPANY

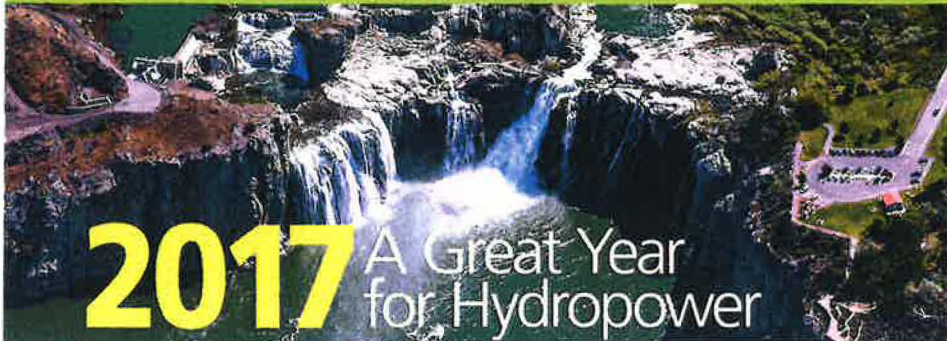
2020 Green Power Biennial Report

ATTACHMENT 1

GreenPower PROGRAM

JULY • 2018

SUMMER NEWSLETTER



2017 A Great Year for Hydropower

Idaho got a lot of snow in the winter of 2016, which meant lots of water for 2017. This led to nearly 50 percent of Idaho Power's energy coming from clean, renewable hydroelectricity. As a Green Power Program participant, your certified renewable energy comes from solar and wind generation facilities. Learn more about the 2017 resource mix on the Historic Product Content Label in this newsletter or on our website.

CO₂ Emissions and Coal Use Continue to Decline

Idaho Power's dependence on coal-fired generation continues to decline: Coal-fired generation in 2017 was 54 percent lower than our baseline year of 2005. We accomplished this milestone by managing future risks, enhancing operating efficiencies of our hydro and natural gas plants and continuing to integrate renewable projects under PURPA and Power Purchase Agreements. In addition, the increase in renewables and regional market access has lowered overall market prices, making coal plants less economical.

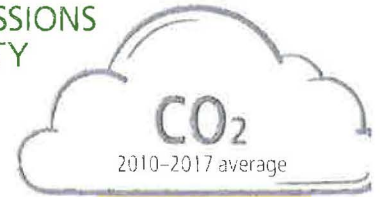
Idaho Power is part owner in three coal-fired generating plants that supplied 18.28 percent of our energy in 2017. Along with Portland General Electric, we have the Boardman plant scheduled to cease coal-fired operations in 2020. We're working with NV Energy to end our participation in the North Valmy plant's unit 1 by 2019 and unit 2 by 2025.

Part of our transition away from coal while continuing to provide reliable, low-cost energy includes the future construction of the Boardman to Hemingway (B2H) transmission line. The new line will increase Northwestern utilities' ability to exchange

low-cost energy during our differing peak energy usage seasons. Utilities closer to the Pacific Ocean need more energy for heat during the winter, whereas our hot summers and irrigation for farms require more energy in the summer. Additionally, B2H increases our ability to access low-cost renewable energy and will allow for more effective renewable energy integration. We've been collaborating with stakeholders since 2007 to conscientiously determine the line route and design that will have the least impact. The B2H project has been recognized by both the Obama and Trump administrations. In 2011, the Obama Administration named the B2H project as one of seven nationally significant transmission projects that, when built, will help increase electric reliability, integrate new renewable energy into the grid, create jobs and save consumers money (DOI.gov, 2011). In 2017, Secretary Ryan Zinke said, "The Boardman to Hemingway Project is a Trump Administration priority focusing on infrastructure needs that support America's energy independence."

CO₂ EMISSIONS INTENSITY

2005 LEVEL



2005 LEVEL

CO₂ ABSOLUTE EMISSIONS

Our CO₂ emissions intensity, measured in pounds of CO₂ per megawatt hour of generation, continues to decline. We achieved a 25 percent reduction in the average emissions intensity level of 2010–2017 versus our baseline year of 2005, and a 47 percent reduction in absolute CO₂ emissions in 2017 versus 2005.

Green Power by the Numbers

We're halfway through 2018 and your Green Power participation is something to be proud of:

January 1–June 31
Total kilowatt hours: **8,797,013**

Environmental Benefit Equivalent

Trees absorbing CO₂ for one year: **7,170** acres

CO₂ avoided: **6,707** tons

Source: U.S. EPA Greenhouse Gas Equivalencies Calculator and eGrid database release date 2/15/18



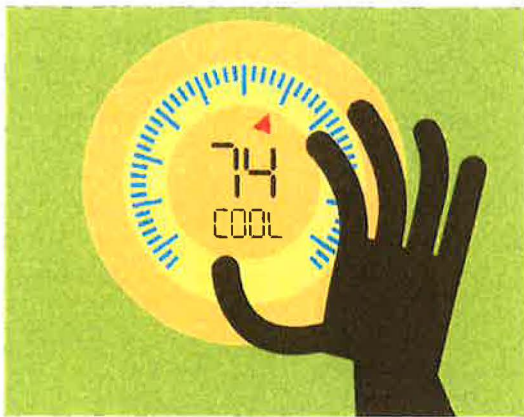
An IDACORP Company

idahopower.com



Idaho Power Receives Environmental Champion Award

Idaho Power was recognized as a 2018 Environmental Champion by Market Strategies for supporting clean energy, environmental protection and energy efficiency. The April 18 press release from Market Strategies can be found at marketstrategies.com/en/news.



Energy Efficiency Corner

Do you know what our lowest-cost and "greenest" resource is? Energy efficiency! It might seem like a trick question, but we treat energy efficiency as an important resource that ensures we can deliver energy to all our customers, delay the need for new power plants and keep prices low. As with anything, using less conserves resources. Energy efficiency upgrades and behaviors reduce your environmental impact and, as a bonus, could increase the comfort of your home and save money on your power bill. Check out ideas, discounts and rebates for energy efficiency on our website.

idahopower.com/save

Idaho Power's Green Power Product Content Label

This label is part of our Green-e Energy certification and is provided to participants each year. The label shows actual sources of Green power purchased in 2017. For a complete list of all sources in 2017, visit idahopower.com/greenpower.

Idaho Power's Green Power Program 2017 Historic Product Content Label ¹

Green Power is sold in blocks of 100 kilowatt-hours (kWh) or matches 100% of your electricity usage. For more information visit idahopower.com/greenpower.

In 2017, Green Power was made up of the following renewable resources.

Green-e Energy Certified New ² Renewables in [Green Power] [2017]		Generation Location
-Solar	3%	Idaho
-Wind	97%	Idaho
Total Green-e Energy Certified New Renewables	100%	

1. These figures reflect the renewables that we provided to Idaho Power's Green Power customers in 2017.
2. New Renewables come from generation facilities that first began commercial operation within the past 15 years.

For comparison, Idaho Power's 2017 mix of resources supplying Idaho Power included: Hydroelectric (49.54%), *Other* (23.81%), Coal (18.28%), and Natural Gas & Diesel (8.37%). (*Other* represents purchased power including electricity originally generated from renewable energy facilities; however the associated renewable energy attributes have been sold to another buyer. The electricity is null power, and not renewable energy.). For information on the energy delivered to our retail customers visit idahopower.com.

The average home in Idaho Power's service area uses about 950 kWh per month.

For specific information about this product, please contact Idaho Power, 800-632-6605, greenpower@idahopower.com, idahopower.com/greenpower.

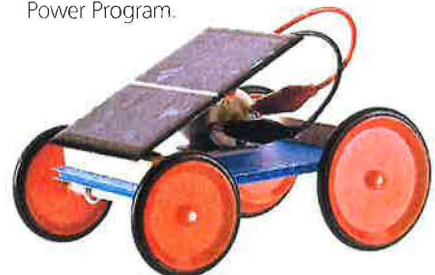


Green Power is Green-e Energy certified, and meets the environmental and consumer-protection standards set forth by the nonprofit Center for Resource Solutions. Learn more at www.green-e.org.



Cascade School was the latest recipient of the Solar 4R Schools grant and construction is slated for 2018. Boise High School's solar array was installed in May, and the teachers went through an all-day teacher training with hands-on activities like making solar derby cars and solar ovens that can bake chocolate-chip cookies! The teachers' enthusiasm and enjoyment was evident, and their students are in for some solar fun.

Thank you for making Solar 4R Schools possible by participating in the Green Power Program.



IDAHO POWER COMPANY

2020 Green Power Report

ATTACHMENT 2

Green Power PROGRAM

2017

Green Power Program by the Numbers*

- 2,127 Participants
- 16,875,407 kWh used in the Green Power Program has an environmental benefit of:
 - 2,514 cars removed from the road for a year
 - 13,183 tons of CO₂ avoided

*Source: U.S. EPA Greenhouse Gas Equivalency Calculator

P.O. BOX 70
BOISE ID 83707-0700



Green Power PROGRAM

Solar and Wind in Balance — Going 50/50 for 2018

Supporting renewable energy in Idaho, Oregon and Washington is something participants in the Green Power Program have been doing for many years.

Historically, this green power was sourced at 97 percent wind and 3 percent solar. This year, we've increased solar to 50 percent and wind power will match it at 50 percent. Another positive is that we've managed to lock in this change at the same price!



Solar Eclipse and Solar Energy

Speaking of solar, let's reminisce about sunnier days. Remember the exciting solar eclipse in August? It did some interesting things to solar electricity generation.

Figure 1 is a data reading from a small solar-generation system in Idaho in the

path of totality. You'll notice how the production levels drop midday, but don't reach zero. This is because the data reads for this system happen every 15 minutes, so they didn't fully capture the two-minute period of totality when production would have dropped to zero.

Figure 2 is from the University of Oregon, showing the measurement of sunlight, or radiant energy, on the day of the eclipse. The graph shows a drop to zero during totality.

Figure 2 (below): Measure of radiant heat during the eclipse

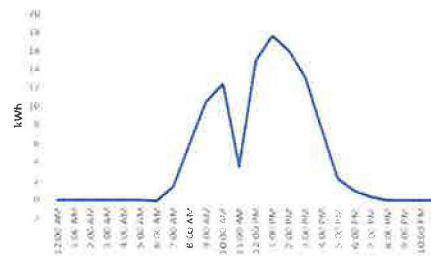
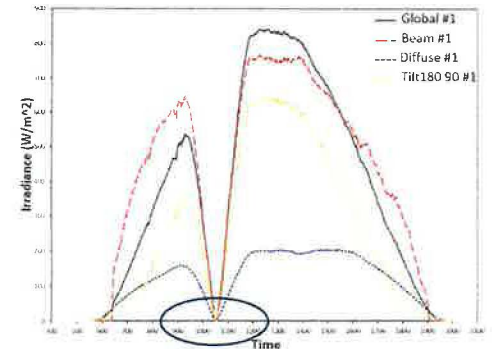


Figure 1 (above): Data reading from a small solar-generation system during the eclipse



Solar eclipse photo composite — credit Idaho Power

thank you!



For questions, contact:

Idaho Power Green Power Program
P.O. Box 70
Boise, Idaho 83707

phone: 1-800-632-6605
email: greenpower@idahopower.com

Green Power Program Business Participants

BOISE/GARDEN CITY

- Ada County Operations Department
- Ada County Paramedics
- BizPrint
- Bogus Basin Mountain Recreation Area
- Boise Consumer Co-op
- Boise Detail
- Boise Yoga Center
- Bureau of Land Management
- National Interagency Fire Center
- Companions Animal Hospital
- Concordia School of Law
- Dawson Taylor Coffee Roasters
- Eagle Rock Studios LLC
- Furpath LLC
- Galliard Group
- Garrison Photography
- Green Mountain Products
- Henderson Corporation
- Hewlett-Packard Company
- Idaho Wine Merchant
- Legacy of China LLC
- Lynne Tolk
- Maverick Media Ventures, Inc.
- McKibben & Cooper Architects
- Mocha Moose Coffee
- Oblatium!

OLIVER RUSSELL & ASSOCIATES

- One Capitol Center — Oppenheimer Development Corp
- Pacific Steel and Recycling
- Peasley Transfer & Storage
- Pioneer Title Company, Boise
- Scot Christopher Hair Design
- Technicum Corporation
- The Children's School
- Wells Fargo Center — Oppenheimer Development Corp
- Westside Body Works
- Whitewater Moving & Storage
- Wide Eye Productions, Inc.

HAILEY/KETCHUM/SUN VALLEY

- Christy A McPherson, CPA
- CK's Real Food
- Flannes Law PLLC
- JG Works LLC
- Pure Body Pilates
- Redfish Technology
- Ripplestone
- Rocky Mountain Hardware
- Sun Valley Auto Club
- Offshore Odysseys
- Big Wood Ski

MERIDIAN/EAGLE

- Design West Architects
- Pioneer Title Company, Meridian
- Real Estate Investment Opportunities

NAMPA/CALDWELL

- Freedom Footbags
- Northwest Automations LLC
- Pioneer Title Company, Caldwell
- Pioneer Title Company, Nampa

TWIN FALLS

- Beckmon's Gaming Paradise
- CH2M Hill OMI
- Magic Valley Veterinary Hospital

OTHER AREAS

- 93 Mini Market and Sports, Salmon
- AGSEED LLC, Hansen
- Buffalo Berry Farm, McCall
- Community Animal Hospital, P.C., Pocatello
- Idaho Rural Council, Bliss
- Integration & Control Services, Inc., Bellevue

Names printed with permission of business

Learn more at: idahopower.com/greenpower



Bolting Around Twin Falls

Idaho Power added a new electric vehicle (EV) to its fleet to show more affordable EVs are now capable of long distances. The brand-new Chevy Bolt gets an estimated 238 miles on a full charge. Watch for this car in the Twin Falls area or cruising along the highway on its long-range battery pack.

Did you know most EV drivers may not need a Level 2, 240-volt charging station at home? The average commuter drives less than 30 miles a day. Plugging into a standard 120-volt outlet when you get home for the day typically will top off and recharge your battery. If you travel longer distances and use most of the battery's charge, a Level 2 charger may be needed to have you back up and running by the next morning.

Idaho Power's Green Power Product Content Label

This label is part of our Green-e Energy certification and is provided to participants each year. The label shows the sources of Green Power planned for 2018.

Idaho Power's Green Power Program 2018 Prospective Product Content Label ¹		
Green Power is sold in blocks of 100 kilowatt-hours (kWh) or matches 100% of your electricity usage. For more information visit idahopower.com/greenpower .		
As of January 1, 2018, Green Power will be made up of the following new renewable resources averaged annually.		
Green-e Energy Certified New ² Renewables in (Green Power) [2018]		Generation Location
-Solar	50%	Idaho, Oregon or Washington State
-Wind	50%	Idaho, Oregon or Washington State
Total Green-e Energy Certified New Renewables	100%	
¹ These figures reflect the renewables that we plan to provide. Actual figures may vary according to resource availability. We will annually report to you before August 1 of next year, in the form of a Historical Product Content Label, the actual resource mix of the green power purchased. ² New Renewables come from generation facilities that first began commercial operation within the past 15 years.		
<small>For comparison, Idaho Power's current typical mix of resources supplying Idaho Power includes: Hydroelectric (10.9%), Coal (41.7%), Other (6.4%), and Natural Gas (38.9%). (Other represents electricity originally generated from renewable energy facilities, however the associated renewable energy attributes have been sold off to another buyer. The electricity is not power, and not renewable energy.) This is an estimate of the fuel mix of Idaho Power's supply side resource portfolio, including market purchases. Fuel mix percentages may not total 100 percent due to rounding. For information on the energy delivered to our retail customers visit idahopower.com.</small>		
<small>Idaho Power owned hydroelectric, coal and natural gas generation is based on the 2012-2016 average. Long-term power purchases (PPAs) and Public Utility Regulatory Policies Act (PURPA) contracts with known fuel sources are identified by the fuel type and generation is based on the 2012-2016 average.</small>		
<small>The average home in Idaho Power's service area uses about 1,000 kWh per month.</small>		
<small>For specific information about this product, please contact Idaho Power, 208-368-2323, idahopower@idahopower.com, or idahopower.com/greenpower.</small>		



Learn more at green-e.org

Array Awarded

In spring 2017, Trail Wind Elementary School in Boise was awarded a new solar array. Construction for the array will begin in 2018.

The Solar 4R Schools program provides small solar arrays at schools in Idaho Power's service area. The arrays come with data monitoring, teacher curriculum and training. The program is funded by Green Power Program participants.

Thanks to your participation, future generations will learn about energy and renewables. Solar 4R Schools online applications are accepted year-round and reviewed each April and October. Be sure to let your local K-12 school know about this great opportunity.



Caring for Your Pets... and the Environment

Longtime supporters of the Green Power Program, the following local veterinary hospitals share a mission of providing compassionate life-long care for your pets, recognizing they are valued family members and friends. They also share a passion for giving back to their communities, supporting renewable energy and making energy efficiency improvements at their clinics.



Companions Animal Hospital in Boise has been a Green Power Program supporter since the program began in 2001. Dr. Dianne Soule says the staff share her passion for giving back and reducing their impact on the planet. "We try to live life intentionally and do what's right for our patients and our city," explains Dr. Soule.

Besides supporting renewable energy, the staff are avid recyclers and mindful about their use and reducing waste. For instance, open bags of pet food are donated to animal shelters who happily accept them. They give back to their community by supporting the Pet Food Pantry and the Fido Fund, which help low-income families get food and medical treatment for their pets. They donate food to the Corpus Christi House, and, rather than exchanging gifts during the holidays, they hold food and clothing drives to benefit local homeless shelters.

The clinic also has the cutest staff member — Fletcher the rescue dog. He's the only one allowed to nap on the job.



Magic Valley Veterinary Hospital, located in Twin Falls, joined the Green Power Program in 2004 to promote environmental awareness. Employees at the hospital value a healthy environment for their four-legged patients (and their two-legged families).

The staff's concern and responsibility toward a healthy environment doesn't stop at the office. All three veterinarians drive hybrid vehicles and recycle everything they can. When asked how these efforts tie into her business, Dr. Connie Rippel said, "We want to do our part to help ensure future generations enjoy the beauty we are lucky to enjoy here in Idaho."

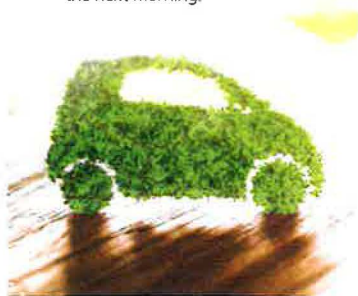
Love for their town and their work is evident. Staff members support nonprofits, such as the Wilderness Society, Heifer International, Arbor Day Foundation, Habitat for Humanity and People for Pets Humane Society. The clinic even hosts school field trips. "It is fun to share our love and appreciation for the animals with the children. We are blessed to work around animals and don't take it for granted," Dr. Rippel said.



A Green Power Program supporter since 2007, Pocatello's Community Animal Hospital is truly community-focused. "An important part of our mission is to make our community better for both its human and animal members. Improving the quality of the environment helps lead to healthier, longer lives," says Practice Manager Brandie Jacobia.

Lessening their environmental impact and strengthening their community's bond are daily practices. In 2013, they made the switch to energy-efficient LED lighting in the main building. In 2010, the clinic created the Compassion Fund that has raised \$10,000 and helped over 200 pets get medical care. Staff members participate in many local charity events like Bark for Life, Dogapoolooza, Run with the Big Dogs and Festival of Trees.

The clinic even hosts its own annual community event, Family Fun Day, with free food, a bounce house, raffles and entertainment for the whole family, pets included. The event is Sept. 15, and raffle sales benefit the Compassion Fund.



IDAHO POWER COMPANY

2020 Green Power Report

ATTACHMENT 3

SPRING 2019
NEWSLETTER



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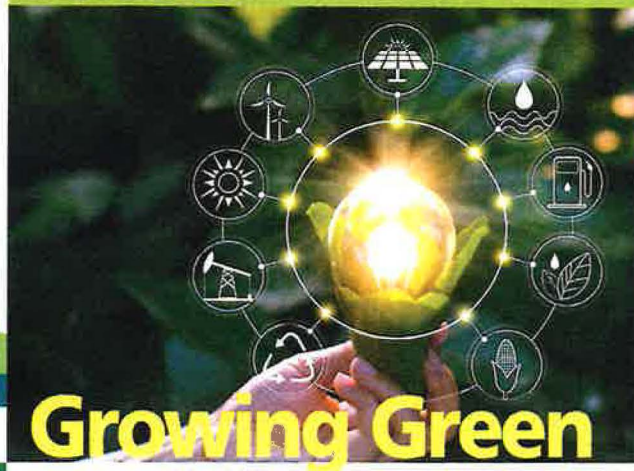
Idaho Power
Green Power Program
P.O. Box 70
Boise, Idaho 83707
phone: 1-800-632-6605
email: greenpower@idahopower.com

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email instead? Send your request to
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BOISE ID 83707-0700



GreenPower
PROGRAM



Growing Green

SPRING 2019
NEWSLETTER

**2018 Green Power
by the Numbers**

Total Participants: **2,598**

Total
Kilowatt-hours: **18,147,134**

Equivalent to:

2,685
Cars Removed from the Road

13,836 tons
CO₂ Avoided

14,789
Acres of trees absorbing
CO₂ for one year

Source: U.S. EPA Greenhouse Gas Emissions
Calculator and eGRID National Relative Data 2015/16

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Green Power Program Business Participants



BOISE/GARDEN CITY
Ada County Operations Department
Ada County Paramedics
Al: The Happy VA
Atlas Resell Management
Avery Install & Service
Ballet Idaho
BzPrini
Bogus Basin Mountain
Recreation Area
Boise Consumer Co-op
Boise Detail
Boise Yoga Center
Bureau of Land Management
National Interagency Fire Center
Companions Animal Hospital
Concordia University School of Law

Dawson Taylor Coffee Roasters
Eagle Rock Studios LLC
Emergency Medicine Academy
Funpath LLC
Galliard Group
Garrison Photography
Garry's Automotive
Green Mountain Products
Henderson Corporation
Idaho Wine Merchant
James Rothschild
Legacy of China LLC
Lynne Tolk
Maverick Media Ventures, Inc.
MacDonald Medical P.C.
McKibben & Cooper Architects
Mocha Moose Coffee
Obtainium!
Oliver Russell & Associates
One Capital Center —
Oppenheimer Development Corp
OneCrazySitch Yarns
Pacific Steel and Recycling
Peasley Transfer & Storage
Pioneer Title Company, Boise
Rivernest LLC
Scot Christopher Hair Design
Techichem Corporation
The Children's School
Wells Fargo Center —
Oppenheimer Development Corp

WESTSIDE BODY WORKS
Whitewater Moving & Storage
Wide Eye Productions, Inc.

WOOD RIVER VALLEY
Betty Swanson Designs
Big Wood Ski
Christy A McPherson, CPA
CK's Real Food
Dr. Jody Stanislaw,
Type 1 Diabetes Specialist
Flannies Law PLLC
Integration & Control Services
JG Works LLC
Pure Body Pilates
Redfish Technology
Ripplestone
Rocky Mountain Hardware
Sun Valley Auto Club
Offshore Odysseys
Thirty Seconds Out LLC
Yeti Brush LLC

MERIDIAN/EAGLE
Backstage Dance Center
Design West Architects
Driven Mechanical LLC
Frymire Ventures LLC
Nasnitro
Pioneer Title Company, Meridian
Real Estate Investment Opportunities

NAMPA/CALDWELL
Freedom Footbags
Northwest Automations LLC
Pioneer Title Company, Caldwell
Pioneer Title Company, Nampa

TWIN FALLS
Beckmon's Gaining Paradise
CH2M Hill OMI
Magic Valley Veterinary Hospital
Rivercrest CPAs

OTHER AREAS
93 Mini Market and Sports, Salmon
AgSeed LLC, Hansen
Community Animal Hospital, P.C.,
Pocatello
EBN Ranch, Kuna
Idaho Rural Council, Bliss
Mendez Family, Mountain Home
The Pet Palace, Emmett
Twin Peaks Nursery, McCall

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Idaho has one of the highest population growth rates in the U.S. — easy to see from the booming construction across the region. The state's economy, cost of living, home prices, growing tech sector and increasing employment opportunities are major drivers for people moving to Idaho. Idaho Power's eastern Oregon service area has also experienced growth with new businesses moving in and the installation of an electric vehicle (EV) fast-charging station in Huntington, courtesy of Electrify America.

On the renewable energy front, since 2016, 289 megawatts (MW) of solar and 50 MW of wind have connected to Idaho Power's electrical grid as Public Utility Regulatory Policies Act (PURPA) qualifying facilities. The added megawatts have increased the total to more than 1,200 MW of renewable generation resources under contract with Idaho Power.*

Topic continued inside

*Under PURPA, qualifying facilities meet specific requirements to be eligible to interconnect to the electrical grid through contracts with the electric utility. Idaho Power sells its portion of the Renewable Energy Certificates (REC) from these renewable resources and proceeds benefit all customers. Because Idaho Power doesn't retain the RECs, the electricity produced is not counted as renewable energy delivered to customers. Green Power Program participants use renewable energy by purchasing Green-Energy certified RECs generated from solar and wind facilities in the northwest.



Electrifying Transportation

Did you know EVs made their debut in the U.S. in 1890? Competing against steam and gas-powered cars, EVs gained popularity until Ford's mass-production of the Model T gave gas cars the economical edge. But EVs are making a comeback. And in Idaho Power's service area, they're powered with almost 50 percent renewable energy. Clean, reliable hydropower is our largest source of energy — powering our homes, businesses and now even our vehicles!

Interested in powering your ride with Green Power's certified renewable energy? Compare EV options and estimated fuel savings at idahopower.com/EV





Vallivue Middle School in Caldwell is the newest recipient of Idaho Power's Solar 4R Schools grant. Construction of the school's solar array begins in early 2019.

Vallivue science teacher, George Ellsworth, sees opportunities for both students and community members to engage in science, technology, engineering and math (STEM) activities.

"A solar generation system at the school gives students a real-life, relatable example to apply lessons. Experimenting with a project they can physically see and point to helps them understand the concepts they are learning and apply them on a larger, broader scale. Additionally, the school already holds STEM events that are open to the public. It's a way to involve the community and let them see the solar installation and its data, as well as imagine how and where else solar can be used."

— George Ellsworth, Vallivue science teacher

With each installation comes an all-day training where teachers from all disciplines learn energy basics, engineering design (translation: fun solar experiments!), and energy efficiency. Energy is more than just science. Math teachers learn how to use the data from the monitoring equipment in their class. Social studies teachers can integrate resource management, government subsidization, and future issues (i.e., ensuring recycling is available for old or broken solar panels).



Managing Growth Through Wise Energy Use

It would be easy to assume energy use would climb evenly along with economic growth, but energy efficiency efforts have helped to taper otherwise increasing energy use. Simple solutions like LED lighting and more complex solutions like building renovations and replacement of inefficient appliances has helped reduce the energy needs at homes and businesses.

Idaho Power expects its number of residential customers to increase an average of 1.7 percent per year. However, residential energy sales are predicted to increase only 1.2 percent per year, demonstrating that energy efficiency efforts, along with local and federal energy policies, are working.

In the last several years, the average residential customer's use dropped from an annual average of 1,000 kilowatt-hours (kWh) a month to 952 kWh a month. This average is expected to continue to decrease.

Every year, Idaho Power works to achieve energy-savings goals through its energy efficiency programs. In the past two years alone, energy savings from our customers' combined efforts totaled an estimated 313,995,947 kWh of electricity. That's enough to power 27,000 average homes in Idaho Power's service area for a full year!

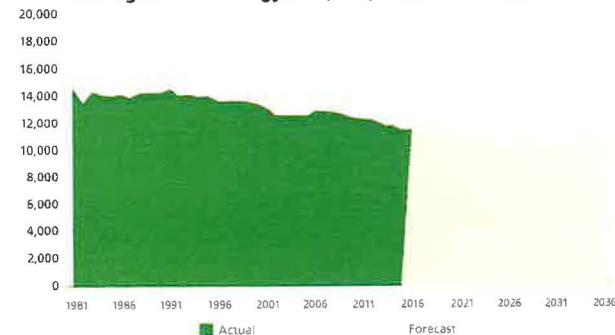
Energy Efficiency Program Impacts

- Residential Sector
- Commercial/Industrial Sector
- Irrigation Sector



2016–2017 ENERGY SAVINGS (kWh)

Average Annual Energy Use (kWh) Per Residential Customer



Source: Data from Idaho Power's 2017 Integrated Resource Plan and the Demand Side Management 2017 Annual Report

In the Business:

With Idaho's fast-paced growth in mind, we're highlighting a Green Power business customer working to transform Idaho and their industry.

Design West Architects, P.A.

A Green Power Program participant since 2010, Design West Architects, P.A. plans and designs buildings that serve the public, including schools, libraries and municipal buildings. Nearly 20 years ago, Design West had 20 employees in two offices. Today, there are 40 employees in five offices located in Idaho, Oregon and Washington. The company has grown alongside our region's boom, adapting to the latest trends in public building design, such as a strong emphasis on campus safety and security, integration of modern technology, and flexible spaces that can serve several purposes.

Design West is a member of the U.S. Green Building Council and believes in responsible and practical design solutions. In fact, two of Design West's projects were recognized with Idaho Smart Growth awards for using sustainable design. Using quality materials is ideal, but does it price designers out of a highly competitive market? Not at all.

"Many energy-efficient and sustainable design features can fit in the budget of most public agencies. Designers work closely with their clients to prioritize features with the most positive impact on building users and utility costs. These efforts result in facilities that are easy to maintain, are energy efficient and will last for a long time, keeping buildings in use and out of the landfill."

— Lisa Olsen, Marketing Coordinator



Since 2004, Design West has helped their clients reduce costs through Idaho Power energy efficiency incentives, with clients receiving incentive rebates totaling over \$1.2 million.

The company regularly sponsors charitable organizations and events and donates its professional services. When Interfaith Sanctuary Housing Services needed to improve its buildings, Design West donated hours of design and consulting work, including helping Interfaith develop a five-year strategy to complete remaining improvements as funding and grants became available.

Design West has helped its public-school clients apply for Solar 4R Schools grants, supporting renewable energy and sustainable features in schools to foster students' and staff interest in environmental responsibility.

"We are proud to participate in the Green Power Program and strongly believe building designers should 'walk the walk,' not just 'talk the talk,'" Lisa shared.

Design West's success shows that sustainability — in design and in our communities — makes sense.

Idaho Power's Green Power Product Content Label

This label is part of our Green e Energy certification and is provided to participants each year. The label shows the anticipated sources of Green Power for 2019.

2019 Renewable Product Content Label*

100% Green-e Energy Certified New¹ Renewables

Generation facilities' location: Idaho, Oregon, or Washington

Energy Resource Mix: 50% Solar, 50% Wind

- These figures reflect the renewables that we plan to provide. Actual figures may vary according to resource availability. Before August 1 of new year, we will provide a Historical Product Content Label to report the actual resource mix of the green power purchased for the previous calendar year.
- New Renewables come from generation facilities that first began commercial operation within the past 15 years.

How does Green Power compare to the standard energy mix?

Idaho Power's 2018 mix of resources supplying Idaho Power customers included: Hydroelectric (46.6%), Purchased Power (28.6%), Coal (17.5%), and Natural Gas & Diesel (7.5%).

(Purchased Power includes energy originally generated from renewable facilities. Idaho Power sells its Renewable Energy Certificates (REC) from these resources and proceeds benefit all customers. Because Idaho Power does not retain the RECs, the electricity is not counted as renewable energy delivered to customers.)

How is green power sold?

Green Power is sold in blocks of 100 kilowatt-hours (kWh) or matches 100 percent of your energy (kWh) use.

What's the average energy use for a home?

The average home in Idaho Power's service area uses about 950 kWh per month (Idaho Power 2018). For the average home, the 100% Option would add an average \$9.50 to the monthly bill to use 100 percent renewable energy. As an example of the Block Option, the home could use 5 blocks of green power to cover over half of the home's energy use for an extra \$5.00 each month.

2018 Renewable Product Content Label

Hydro	46.4%
Purchased Power	28.6%
Coal	17.5%
Natural Gas & Diesel	7.5%

For specific information about this program, contact Idaho Power at 1-800-632-6605, greenpower@idahopower.com or idahopower.com/greenpower.



Green Power is Green-e Energy certified and meets the environmental and consumer-protection standards set forth by the non-profit Center for Resource Stewardship. Learn more at www.green-e.org.

IDAHO POWER COMPANY

2020 Green Power Prudency Report

ATTACHMENT 4

SUMMER 2019
NEWSLETTER



P.O. BOX 70
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GreenPower
PROGRAM

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Idaho Power
Green Power Program
P.O. Box 70
Boise, Idaho 83707
phone: 1-800-632-6605
email: greenpower@idahopower.com

For more information on the Green Power Program, visit our website at www.idahopower.com/greenpower or call 1-800-632-6605.



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Clean today
Cleaner tomorrow.

Idaho Power recently unveiled a goal to provide 100% clean energy by 2045.

"Providing 100% clean energy is an important goal for Idaho Power. More and more customers are telling us it is important to them, too. We believe this goal is attainable — we have a great head start — thanks to our clean hydropower plants that produce almost half the energy our customers use," said Idaho Power President and CEO Daniel Anderson.

Idaho Power is among the first publicly owned energy companies to set a goal for reaching 100% clean energy to achieve the goal, the company plans to continue its path away from coal and invest in storage and additional clean generation sources like wind and solar.

100% CLEAN ENERGY BY 2045.
cleantoday.com



BOISE/GARDEN CITY
Ada County Operations Department
Ada County Paramedics
All The Happy VA
Atlas Resell Management
Avery Install & Service
Ballet Idaho
BizPrint
Bogus Basin Mountain Recreation Area
Boise Consumer Co-op
Boise Detail
Boise Yoga Center
Bureau of Land Management
National Interagency Fire Center
Companions Animal Hospital
Concordia University School of Law
Dawson Taylor Coffee Roasters

Green Power Program Business Participants

EAGLE ROCK STUDIOS LLC
Emergency Medicine Academy
Funpath LLC
Galliard Group
Garrison Photography
Garry's Automotive
Green Mountain Products
Henderson Corporation
Idaho Wine Merchant
James Rothschild
Legacy of China LLC
Lynne Talk
Maverick Media Ventures, Inc
MacDonald Medical PC
McKibben & Coeger Architects
Mocha Moose Coffee
Obtanium!
Oliver Russell & Associates
One Capital Center —
Oppenheimer Development Corp
One Crazy Stitch Yarns
One Stone Lab School
Pacific Steel and Recycling
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MERIDIAN/EAGLE
Backstage Dance Center
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Fryntire Ventures LLC
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AgSeed LLC, Hansen
Community Animal Hospital, P.C., Pocatello
EBN Ranch, Kuna
James Wardell, Consultant, Pocatello
Meridez Family Mountain Home
The Pet Palace, Emet
Razor Logistics Inc., Garden Valley
Reptile Creek, Buhl
Twin Peaks Nursery, McCall

GreenPower
PROGRAM

SUMMER 2019
NEWSLETTER



solar 4R schools
HIGHLIGHT

Boise School District's Sustainability Efforts

The Boise School District has long been an enthusiastic participant in the Solar 4R Schools Program. In fact, three schools in the district have been awarded grants because the solar array and energy curriculum complemented their existing curriculum and holistic approach to sustainability.

We wanted to know more about the Boise School District's own efforts to address sustainability, beyond the grant and solar energy. We sat down with Chris Taylor, chair of the district's Sustainability Committee, to hear more.



Continued on page 7

By participating in Idaho Power's Green Power Program, you do more than use renewable energy. Through the program's sponsorship of Solar 4R Schools, you help young minds learn the importance of a sustainable energy future.

The impact of Solar 4R Schools is far-reaching and inspires students to think beyond solar energy and to a broader sense of sustainability. Some students go on to engage their classmates, families, and communities in sustainability efforts.

Solar 4R Schools is a yearly grant program that awards one school (K-12) in Idaho Power's service area with a small solar array and energy-education kits that can be its own or shared with many schools. Grant recipients are chosen in part because they have demonstrated a commitment to energy education, energy efficiency, a broader dedication to sustainability, and the ability to involve their district and community.

17 SCHOOL DISTRICTS have participated



760 HOURS of training completed

152 teachers trained
7,700+ students reached

50 kW (kilowatts) of solar panels installed



Boise School District's Sustainability Efforts

(continued from page 1)

"Two years ago, sustainability was in the school district's policy, but many of the staff felt more could be done. We formed a Sustainability Committee and identified four areas of focus — energy, water, waste and transportation. The committee recruited members from all over the district — principals, teachers, food services, facilities and students — and invited special outside partners from business and government who wanted to help. Last year, the committee had its first summit, including 40 teachers from multiple school districts. The second annual summit is in the works."

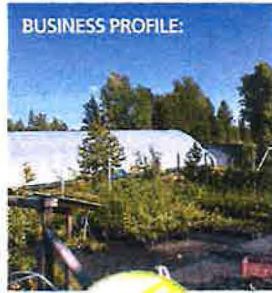
Boise School District participated in Idaho Power's Collaborative Energy Improvement Cohort for Schools. Working with industry experts, we developed plans to reduce energy use and track savings. Over the years, through the cohort and Idaho Power's efficiency programs, the district has reduced its energy needs by enough kilowatt-hours to power 307 average homes in our area per year. Now, we design new schools with a focus on efficiency and sustainability.

Each school has a Green Team made up of students collaborating on ideas to conserve

resources. This generation of students is driven — they come up with creative ideas to address issues and just want occasional guidance on research and implementation. For instance, to address cafeteria food waste, one high school student developed a phone app for students to pre-order school lunches. This allows the cafeteria to know what types and how much food to prepare each day. An elementary

Green Team suggested removing unnecessary Styrofoam trays. A junior high Green Team recommended water bottle refill stations to avoid disposable bottle use. Green Teams also work on influencing behaviors and habits, analyzing data on the school's energy use and adding more recycling options. It's about changing the culture, and there are many students and teachers taking the extra initiative to influence that culture shift toward "sustainable thinking."

— Chris Towley, Boise School District Sustainability Committee Chair



A Green Power supporter since 2003, Twin Peaks Native Plant Nursery in McCall, Idaho started out as a greenhouse for conifer trees. In 1994, they ran across the concept of "native" landscaping and expanded their business to include a diverse mix of northwest native plants. As it turned out, there is a healthy market for native vegetation, not just for landscapers and homeowners, but also for restoration projects. Jim and Mayo, owners of the nursery, feel fortunate to be a part of projects that restore and preserve the beauty of the natural northwest. Organizations like Nez Perce Tribe, U.S. Fish and Wildlife, U.S. Forest Service, and U.S. Department of Energy buy Twin Peaks' plants for projects to improve habitats and campgrounds, control streamside erosion, reclaim old mining sites, and restore a decommissioned nuclear site in Washington. Jim and Mayo have visited several of these sites to witness the transformation and see their plants thriving. It's a strong reminder of why they chose native plants as their business. As Jim reflected on what drives them, he shared, "We love what we do, the people involved, and being a part of something that restores our environment."

Boise High School Turns Food Waste into Compost

At Boise High School, the 2017 Solar 4K Schools recipient, they turn trash into treasure by making compost with food waste. We asked teacher Alison Ward to share the story of how Boise High got into composting.

"This was a way for us to turn waste into something beneficial for another passion project of ours. Our school farm, the Downtown Teaching Farm, is located on land loaned to us by the Cathedral of the Rockies. It has been a labor of love for the past eight years. The farm's soil has low fertility, and there were years where our vegetable plants struggled. Adding compost was key, and we needed a local business that would divert its food waste to our compost pile. The Boise Co-Op offered to help. In one year's time we have composted over 15 tons of food-prep waste, such as potato peels and coffee grounds, from their deli.

Compost piles do best with a mixture of nitrogen-rich green material like food waste and dried plant brown material, such as fallen leaves, wood chips or straw. With so much green material coming from the Co-Op, we need to layer wood chips or straw frequently. The decomposition process can turn smelly, fast. The key to keeping our compost pile smelling sweet and breaking down quickly is frequent turning and adding plenty of brown material. It takes a lot of work to turn the compost, but it is beautiful — rich in nutrients and dark black in color. The project's success has hinged on support from our administrators and feedback from our students. With healthy crop rows, pollinator gardens, prairie and herb beds, an apiary for our honey bee hives, an orchard and room for our mushroom compost, time spent restoring and sustaining the farmland is considered time well spent. We continue to need help and support from community gardeners — if anyone is interested in joining us, they can email us at downtownteachingfarm@gmail.com."



Boise High Science Teacher Alison Ward

well spent. We continue to need help and support from community gardeners — if anyone is interested in joining us, they can email us at downtownteachingfarm@gmail.com."

BUSINESS PROFILE:



EBN Ranch

Fina Towley, owner of EBN Ranch in Kootenai, Idaho, has a favorite quote that fits her story perfectly. "If you are lucky enough to find a way of life you love, you have to find the courage to live it." (John Living) Thirteen years ago, Fina left her job to follow her passion of sustainable farming and ranching.

The Towley family wanted to be more self-sufficient by growing healthy foods, raising goats and chickens using organic practices, and providing natural options for their community. Sustainability was a key component and the Towley's honed their methods to save energy, water, and avoid chemical use — a tall order in agriculture. Today, the ranch is chemical-free and has become a model of sustainable farming. Over the years, EBN Ranch has provided locally raised and natural products, ranging from dairy and beef products to raw goat's milk, fruits and vegetables, meat and eggs. While they are starting to slow their pace in supplying natural products, the Towley's haven't slowed down in passing along their knowledge for the next generation of sustainable farmers.

Fina is often invited to events like goat university to teach how EBN Ranch provides year-round green food, or fodder, for their animals. EBN Ranch grows the fodder in a green-house and, with their method, they recycle the plants' water for a week or longer. Additionally, Fina gives tours of her farm, so people can see how EBN Ranch puts sustainable farming into practice. "I try to make my farm a fun, safe place for small groups to learn about animals, how we feed and water, and use resources wisely and efficiently." While EBN Ranch is new to the Green Power Program, it is a seasoned practitioner of sustainability and education.

Idaho Power's Green Power Product Content Label

This label is part of our Green+ Energy certificate and is provided to participants each year. The label shows actual sources of Green Power purchased in 2018, not a complete list of all sources in 2018, with methodology and other details.

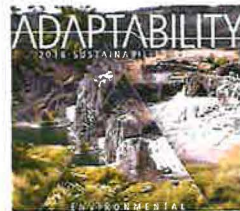
100% Green-Energy Certified New Renewables
Generation Facilities' location: Idaho
Energy Resource Mix: 100% Solar, 0% Wind

How it's green power built?
 Idaho Power's 2018 mix of renewable-supplying Idaho Power locations included: hydroelectric (46.6%), purchased power (25.1%), coal (17.9%), and natural gas & diesel (7.3%).

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What is the average energy use for a home?
 The average home in Idaho Power's service area uses about 250 kWh per month (Idaho Power 2018). For the average home, the 100% Green Power Option would add an average \$1.50 to the monthly bill to use 100 percent renewable energy. As an example of the 100% Green Power Option, the home would use 3 blocks of green power to cover over half of this home's energy use for an extra \$2.00 each month.

Go Green, influence change. About the program and EBN Ranch, visit www.idahopower.com/greenpower or call 1-800-835-3333.



Sustainability Update

Idaho Power's parent company, IDACORP Inc., recently published its 2018 Sustainability Report. The report details the company's commitment to financial, environmental and social stewardship.

This year's report delves into how Idaho Power continues to adapt to a changing climate and highlights several of the company's video stories detailing these efforts. Also included are metrics indicating how the company reduces emissions, increases customer satisfaction and reliability, and more. For example, Idaho Power's carbon emissions intensity has decreased by 46% compared to 2005 levels.



The full report is available online: idahopower.com/sustainability



Idaho Power is a 100% renewable energy provider. Our Green+ Energy Certificate (GEC) is a 100% renewable energy product that is sold in blocks of 100 kilowatt-hours (kWh) and matches 100 percent of your energy (kWh) use.