



Oregon

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Public Utility Commission

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March 9, 2021



BY EMAIL

Idaho Power Company

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RE: Advice No. 21-01

At the public meeting on March 9, 2021, the Commission adopted Staff's recommendation in this matter docketed as ADV 1238. The Staff Report and a receipted copy of the sheets in your advice filing are attached.

Nolan Moser

Chief Administrative Law Judge

Public Utility Commission of Oregon

(503) 378-3098

**PUBLIC UTILITY COMMISSION OF OREGON
STAFF REPORT
PUBLIC MEETING DATE: March 9, 2021**

REGULAR CONSENT EFFECTIVE DATE March 10, 2021

DATE: March 1, 2021

TO: Public Utility Commission

FROM: Anna Kim

THROUGH: Bryan Conway, JP Batmale, and Sarah Hall **SIGNED**

SUBJECT: IDAHO POWER COMPANY:
(Docket No. ADV 1238/Advice No. 21-01)
Requests Update to Schedule 89 Tariff Relating to Commercial and Industrial Energy Efficiency.

STAFF RECOMMENDATION:

Staff recommends that the Public Utility Commission of Oregon (Commission) approve Idaho Power Company's (the Company) Advice No. 21-01, updating Schedule 89 for the Commercial and Industrial Energy Efficiency Program (C&I Program), effective with service on and after March 10, 2021.

DISCUSSION:

Issue

Whether the Commission should approve Idaho Power Company's advice filing updating Schedule 89 to make modifications to the C&I Program.

Applicable Law

Under ORS 757.210 the Commission may approve tariff changes if they are deemed to be fair, just and reasonable. Tariff revisions may be made by filing revised sheets with the information required under the Commission's administrative rules, including OAR 860-022-0025.

OAR 860-022-0025(2) specifically requires that each energy utility changing existing tariffs or schedules must include in its filing a statement plainly indicating the increase, decrease, or other change made with the filing, the number of customers affected by the

proposed change and the resulting change in annual revenue; and the reasons or grounds relied upon in support of the proposed change.

Filings that propose any change in rates, tolls, charges, rules, or regulations must be filed with the Commission at least 30 days before the effective date of the change. ORS 757.220; OAR 860-022-0015.

OAR 860-027-0310, encourages energy utilities to acquire cost-effective conservation resources. Energy utilities may apply for Commission approval of programs designed to promote the acquisition of cost-effective conservation resources. Under OAR 860-027-0310(2), the Commission reviews proposed programs and modifications to programs to consider whether the program (1) includes cost-effective measures, incents cost minimization, and is not easily manipulated by the utility; (2) is predictable; (3) is simple; and (4) fairly allocates risks and rewards between shareholders and ratepayers, minimizes cross-subsidization by non-participants, and does not impose rate pressure. In developing cost-effective conservation programs, energy utilities may balance the emphasis given to each policy listed above. Greater focus on one policy may come at the expense of another policy, if the whole proposal is reasonable.

Analysis

Background

The C&I Program is an incentive-based program designed to help reduce the costs of installing energy efficiency features in existing and new commercial and industrial buildings. The program provides incentives for a variety of prescriptive lighting and non-lighting measures, as well as a custom, non-prescriptive pathway.¹

Measure Changes

The Company proposes to make multiple changes to the prescriptive retrofits lighting measures. These changes are the removal of some measures, increases in incentives for other measures, addition of new measures, and a housekeeping update.

First, the Company proposes to remove the following standard lighting measures:

- T8 Fluorescents
- T5/T8 High Bay New Fixtures
- Fluorescent Delamping
- Reduced Wattage T8/T5HO
- Relamp T8/T5HO to Reduced Wattage T8/T5HO

¹ Idaho Power Company Advice No. 21-01 p. 1.

- Refrigeration Case Lighting

These are fluorescent-based lighting measures. The Company finds that switching to LEDs provides more savings, and that customers do not find these current standard options appealing. The Company also has non-standard options available for any customers interested in fluorescent technologies.

Staff supports the removal of these measures. Staff finds the Company's observations consistent with market trends and agrees that LED technologies provide greater energy benefits.

Second, the Company proposes removing the following options for lighting controls:

- Wall switch occupancy sensor
- Ceiling mount occupancy sensor
- Fixture mount occupancy sensor – interior; Interior photocell control (dimming, step dimming or switching)
- Multiple control strategies on existing LED - interior from the standard incentive menu.

Staff supports the removal of these measures because they are no longer cost-effective. As the baseline for lighting improves, the savings from lighting controls declines.

Third, the Company proposes increasing incentives the following lighting measures to increase participation:

| Measure | Unit | Location | Old Price | New Price |
|--|------------------|----------|-----------|-----------|
| HID LED screw-in replacement lamp | per watt reduced | Exterior | \$0.20 | \$0.24 |
| | | Interior | \$0.22 | \$0.26 |
| Linear LED tube (Types A, B, DM) | per foot | Exterior | \$0.50 | \$1.00 |
| | | Interior | \$0.50 | \$1.00 |
| Linear LED tube (Type C) | per kWh reduced | Exterior | \$0.02 | \$0.04 |
| | | Interior | \$0.05 | \$0.10 |
| LED Level 1 retrofit kit | per kWh reduced | Interior | \$0.10 | \$0.12 |
| LED fixture or LED Level 2 retrofit kit | per kWh reduced | Exterior | \$0.12 | \$0.14 |
| | | Interior | \$0.15 | \$0.19 |
| LED fixture or LED Level 2 retrofit kit with single control strategy | per kWh reduced | Exterior | \$0.14 | \$0.16 |
| | | Interior | \$0.18 | \$0.21 |
| LED fixture or LED Level 2 retrofit kit with multiple control strategies | per kWh reduced | Exterior | \$0.16 | \$0.18 |
| | | Interior | \$0.20 | \$0.24 |
| LED fixture or LED Level 2 retrofit kit with networked controls | per kWh reduced | Exterior | \$0.18 | \$0.20 |
| | | Interior | \$0.22 | \$0.26 |
| LED sign lighting retrofit | per kWh | Exterior | \$0.10 | \$0.14 |
| | | Interior | \$0.12 | \$0.18 |

With the exception of the LED tubes, these incentive increases are small. Staff finds these increases reasonable, as measures remain cost-effective. Staff also supports the increase in LED tubes as it supports the removal of the fluorescent measure incentives while remaining cost-effective.

Fourth, in addition to the increase in incentives, the Company requests to remove the watt requirement for “Linear LED tube measures (Types A, B, DM and C),” that lamps being replaced be greater than 17 input watts. The Company analyzed a change to the measure to include lamps replaced with fewer than 17 input watts and found this modification to still be cost-effective. Staff supports this change, as it increases the cost-effective options.

Fifth, the Company proposes to add the following LED level 1 retrofit kits with controls as new measures:

- LED level 1 retrofit kit with single control strategy, with incentives of \$0.12 exterior and \$0.14 interior per kWh reduced.
- LED Level 1 retrofit kit with multiple control strategies, with incentives of \$0.14 exterior and \$0.16 interior per kWh reduced.
- LED Level 1 retrofit kit with networked controls, with incentives of \$0.16 exterior and \$0.18 interior per kWh reduced.

The Company believes that customers will benefit from measure kits similar to those offered for Level 2 retrofit kits. These integrated kits are being produced by manufacturers and enable more control strategies.

Staff supports the addition of these measures as lighting controls are an area of growth for energy efficiency in lighting.

Finally, the Company proposes the following housekeeping update:

- Retitle "LED hardwired conversion/LED Level 1 retrofit kit" to "LED Level 1 retrofit kit" because the wording "hardwired conversion" has been found to be unnecessary.

Staff supports this change.

Conclusion

Based on Staff's analysis, Staff recommends that the Commission allow the advice filing to go into effect to update its Schedule 89.

PROPOSED COMMISSION MOTION:

Approve Idaho Power's revised Schedule 89 Commercial and Industrial Energy Efficiency Program tariff and proposed modifications as described in Advice No. 20-13, effective with service on and after March 10, 2021.

**SCHEDULE 89
COMMERCIAL AND INDUSTRIAL ENERGY EFFICIENCY**

AVAILABILITY

Service under this schedule is available to commercial and industrial Customers as well as other customer classes where there may be commercial and industrial facilities throughout the Company’s service area within the State of Oregon receiving active service.

APPLICABILITY

This schedule is applicable to electric energy efficiency retrofit and new construction projects typical of commercial or industrial applications that meet the requirements of the Commercial and Industrial Energy Efficiency program.

DESCRIPTION

The Commercial and Industrial Energy Efficiency program is an incentive-based program designed to help reduce the costs of installing energy efficiency features in existing and new commercial and industrial buildings. The Program provides incentives for a variety of prescriptive lighting and non-lighting measures, as well as a custom path for projects which fall outside the prescriptive offerings.

INCENTIVE STRUCTURE

Installed measures must meet the requirements of the Commercial and Industrial Energy Efficiency program as detailed in this Schedule, and must also comply with the current Program terms and conditions posted to the Program website at www.idahopower.com/business. Incentives will not be paid for measures required by Oregon code. Incentive payments will not exceed 100% of the installed cost.

PRESCRIPTIVE RETROFIT INCENTIVES

TABLE 1: RETROFIT - LIGHTING AND LIGHTING CONTROLS

| Equipment Category | Installing | Replacing | Incentive Per Unit Exterior/Interior |
|--|--|--|--------------------------------------|
| Permanent Fixture Removal (<i>Only applicable as standard measures</i>) | Permanent fixture removal as part of overall lighting retrofit project | Hardwired fixture using 50-299 input watts | \$ 15.00/20.00 |
| | Permanent fixture removal as part of overall lighting retrofit project | Hardwired fixture ≥ 300 input watts | \$ 25.00/30.00 |
| Light Emitting Diodes (LEDs) (<i>Must be on DLC or ENERGY STAR® Qualified Commercial LED List</i>) | Screw-in or pin-base LED | Screw-in or pin-base lamp using higher wattage | \$0.08/0.12/watt reduced |
| | HID LED screw-in replacement lamp | Existing HID lamp using > input watts | \$0.24/0.26/watt reduced |
| | Linear LED tube (Types A, B, and DM) | Fixture using higher wattage | \$1.00/1.00/ft |
| | Linear LED tube (Type C) | Fixture using higher wattage | \$0.04/0.10/kWh reduced |
| | LED Level 1 retrofit kit | Fixture using higher wattage | \$0.08/0.12/kWh reduced |
| | LED Level 1 retrofit kit with single control strategy | Fixture using higher wattage | \$0.12/0.14/kWh reduced |

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**SCHEDULE 89
COMMERCIAL AND INDUSTRIAL ENERGY EFFICIENCY
(Continued)**

PRESCRIPTIVE RETROFIT INCENTIVES (Continued)

| TABLE 1: RETROFIT - LIGHTING AND LIGHTING CONTROLS (Continued) | | | |
|--|--|---|---|
| Equipment Category | Installing | Replacing | Incentive Per Unit Exterior/Interior |
| Light Emitting Diodes (LEDs) (Must be on DLC or ENERGY STAR® Qualified Commercial LED List) | LED Level 1 retrofit kit with multiple control strategies | Fixture using higher wattage | \$0.14/0.16/kWh reduced |
| | LED Level 1 retrofit kit with networked controls | Fixture using higher wattage | \$0.16/0.18/kWh reduced |
| | LED fixture or LED Level 2 retrofit kit | Fixture using higher wattage | \$0.14/0.19/kWh reduced |
| | LED fixture or LED Level 2 retrofit kit with single control strategy | Fixture using higher wattage | \$0.16/0.21/kWh reduced |
| | LED fixture or LED Level 2 retrofit kit with multiple control strategies | Fixture using higher wattage | \$0.18/0.24/kWh reduced |
| | LED fixture or LED Level 2 retrofit kit with networked controls | Fixture using higher wattage | \$0.20/0.26/kWh reduced |
| LED Sign Lighting | LED exit sign or equivalent (<5 watts) LED sign lighting retrofit | Exit sign using ≥18 watts Existing using > input watts | \$ n/a/40.00 \$ 0.14/0.18/kWh |
| Lighting Controls | Fixture mount occupancy sensor – interior | Manual or no prior control ≥ 25 input watts | \$ n/a/25.00 |
| | Fixture mount occupancy sensor – exterior | Manual or no prior control, ≥75 input watts | \$ 15.00/n/a |
| | Multiple control strategies on existing LED - exterior | Manual or no prior control, ≥75 input watts | \$ 25.00/n/a |

Table 1 Note:

“Non-standard” incentives are available for cost-effective lighting measures not listed on Table 1. Non-standard interior lighting incentives will be calculated at \$0.10 per first year annual kilowatt-hour saved up to 70% of measure cost and exterior lighting incentives will be calculated at \$0.08 per first year annual kilowatt-hour saved up to 70% of measure cost.

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**SCHEDULE 89
COMMERCIAL AND INDUSTRIAL ENERGY EFFICIENCY**

(Continued)

PRESCRIPTIVE RETROFIT INCENTIVES (Continued)

TABLE 2: RETROFIT - HVAC AND HVAC CONTROLS

| Equipment category | Installing | Replacing | Incentive Per Unit |
|---------------------------------------|---|--|-----------------------------------|
| Air Conditioning (AC) Units | ≤5 ton AC unit that meets CEE Tier 1 | Standard ≤5 ton AC/HP unit | \$ 30.00/ton |
| | ≤5 ton AC unit that meets CEE Tier 2 | Standard ≤5 ton AC/HP unit | \$ 75.00/ton |
| | ≤5 ton VRF unit that meets CEE Tier 2 | Standard ≤5 ton AC/HP unit | \$ 100.00/ton |
| | <64 ton VRF unit that meets CEE Tier 1 | Standard <64 ton AC/HP unit | \$ 75.00/ton |
| Heat Pump (HP) Units | ≤5 ton HP unit that meets CEE Tier 1 | Standard ≤5 ton AC/HP unit | \$ 30.00/ton |
| | ≤5 ton HP unit that meets CEE Tier 2 | Standard ≤5 ton AC/HP unit | \$ 75.00/ton |
| | ≤5 ton VRF unit that meets CEE Tier 2 | Standard ≤5 ton AC/HP unit | \$ 100.00/ton |
| | <64 ton VRF unit that meets CEE Tier 1 | Standard <64 ton AC/HP unit | \$ 75.00/ton |
| Chiller Units | Air-cooled chiller, <150 tons, IPLV 16.2 EER or higher | Standard air-cooled chiller | \$ 80.00/ton |
| | Air-cooled chiller, ≥150 tons, IPLV 16.6 EER or higher | | |
| | Water-cooled chiller electronically operated, reciprocating and positive displacement: <75 tons, IPLV: 0.50 or less (kW/ton) ≥75 and <150 tons, IPLV: 0.47 or less (kW/ton) ≥150 and <300 tons, IPLV: 0.44 or less (kW/ton) ≥300 and <600 tons, IPLV: 0.42 or less (kW/ton) >600 tons, IPLV: 0.40 or less (kW/ton) | Standard water-cooled chiller | \$ 40.00/ton |
| | Water-cooled chiller electronically operated, centrifugal: <150 tons, IPLV: 0.45 or less (kW/ton) ≥150 and <300 tons, IPLV: 0.43 or less (kW/ton) ≥300 and <400, IPLV: 0.41 or less (kW/ton) >400 tons, IPLV: 0.40 or less (kW/ton) | | |
| Economizers | Air side economizer control addition | No prior control | \$100.00/ton |
| | Air side economizer control repair | Non-functional economizer | \$50.00/ton |
| Evaporative Coolers | Retrofit to direct evaporative cooler (Evaporative pre-cooled DX systems are not eligible) | Standard AC unit | \$200.00/ton |
| Equipment category | Installing | Replacing | Incentive Per Unit |
| Automated Control Systems | EMS control with 1 strategy | Proposed strategy not existing Proposed strategy not existing Proposed strategy not existing Proposed strategy not existing Proposed strategy not existing | <u>Retrofit System/New System</u> |
| | EMS controls with 2 strategies | | \$100.00/ton/60.00/ton |
| EMS controls with 3 strategies | \$125.00/ton/70.00/ton | | |
| EMS controls with 4 strategies | \$150.00/ton/80.00/ton | | |
| EMS controls with 5 strategies | \$175.00/ton/90.00/ton | | |
| Lodging room occupancy controls | Manual controls | | \$ 75.00/unit |
| Electronically Commutated Motor (ECM) | ECM motor in HVAC application | Shaded pole or permanent split capacitor motor | \$100/motor |

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SCHEDULE 89
COMMERCIAL AND INDUSTRIAL ENERGY EFFICIENCY
 (Continued)

PRESCRIPTIVE RETROFIT INCENTIVES (Continued)

| TABLE 3: RETROFIT - BUILDING SHELL | | | |
|---|--------------------------------------|--------------------------------|-------------------------|
| Equipment category | Installing | Replacing | Incentive |
| Premium Windows | Low U-value, U-factor of .30 or less | Standard windows | \$ 2.50/ft2 window area |
| Reflective Roofing | Adding reflective roof treatment | Non-reflective low pitch roof | \$ 0.05/ft2 roof area |
| Ceiling Insulation | Increase to R38 min. insulation | Insulation level R11 or less | \$ 0.35/ft2 |
| Wall Insulation | Increase to R11 min. insulation | Insulation level, R2.5 or less | \$ 0.40/ft2 wall area |
| | Increase to R19 min. insulation | Insulation level, R2.5 or less | \$ 0.55/ft2 wall area |

Table 3 Notes:

1. Windows must be installed in building with electric heat.
2. Insulation must be professionally installed by an insulation contractor.
3. Insulation must be installed in building with electric heat.

| TABLE 4: RETROFIT - OTHER EQUIPMENT | | | |
|--|--|---|--|
| Equipment category | Installing | Replacing | Incentive Per Unit |
| Computers | PC network power management | No central control software in place | \$ 10.00 |
| Laundry Machines | High efficiency washer | Standard washer, electric HW | \$125.00 |
| Stock Tank | Thermostatically-controlled stock tank de-icer | No existing thermostatically-controlled de-icer | \$50.00/unit |
| Motor Belts | Type AX notched V-belt Type BX notched V-belt Synchronous belt | Type A solid V-belt Type B solid V-belt Standard fan belt | \$ 5.00/hp* \$ 5.00/hp* \$ 35.00/hp *Incentive capped at \$50/motor |
| Commercial showerhead, electric water heat | 2.0 gpm or less installed in health club/fitness business | Showerhead using 2.2 gpm or greater | \$ 15.00 |
| | 2.0 gpm or less installed in commercial business (non health club/fitness) | Showerhead using 2.2 gpm or greater | \$ 9.00 |
| Smart Power Strips | Load-sensing, motion-sensing, or timer-controlled power strip | No existing load or motion-sensing, or timer-controlled power strip | \$ 10.00/power strip |

**SCHEDULE 89
COMMERCIAL AND INDUSTRIAL ENERGY EFFICIENCY**

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PRESCRIPTIVE RETROFIT INCENTIVES (Continued)

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| TABLE 4: RETROFIT - OTHER EQUIPMENT (Continued) | | | |
|--|---|--|---------------------------|
| Equipment category | Installing | Replacing | Incentive Per Unit |
| Engine Block Heater and controls | Standby generation stationary pump-driven circulating block heater; must operate continuously | Thermosiphon electric resistance circulating block heater < 3 kW | \$200/unit |
| | | 3 kW or greater | \$1,500/unit |
| | Wall-mounted engine block heater control | Standard engine block heater without controls | \$50.00 |
| | Engine-mounted engine block heater control | Standard engine block heater without controls | \$100.00 |
| High Volume Low Speed Fan | High volume low speed fan | Standard high speed fan | \$2,000.00/fan |
| Compressed Air | VFD on air compressor | No existing VFD | \$150.00/hp |
| | Low pressure drop filter | Standard filter | \$7.50/hp |
| | No-loss condensate drain | Open tube with ball valve | \$300/unit |
| | Efficient compressed air nozzle ≤1/4" | Standard air nozzle | \$30.00/unit |
| | Efficient compressed air nozzle >1/4" | Standard air nozzle | \$60.00/unit |
| | Cycling refrigerated compressed air dryer | Standard air dryer | \$2.00/CFM |

Table 4 Notes:

1. PC network power management incentive applies to desktop units only.

| TABLE 5: RETROFIT - FOOD SERVICE EQUIPMENT | | | |
|---|---|------------------------------------|---------------------------|
| Equipment category | Installing | Replacing | Incentive Per Unit |
| Refrigeration | Install auto-closer – walk-in | No/damaged auto-closer, low temp. | \$125.00/door |
| | Install auto-closer – reach-in | Damaged auto-closer, low temp. | \$100.00/door |
| | Install auto-closer – walk-in | No/damaged auto-closer, med. temp. | \$100.00/door |
| | Install auto-closer – reach-in | Damaged auto-closer, med. temp. | \$ 70.00/door |
| | Add anti-sweat heat controls | Low/med. temp. case w/out controls | \$ 40.00/linear foot |
| | Freezer to dock automatic high speed door | Manual or electric warehouse door | \$8,000.00 |
| | Freezer to refrigerator automatic high speed door | Manual or electric warehouse door | \$4,000.00 |
| | Freezer strip curtain | No protective barrier | \$150.00 |
| Refrigerated strip curtain | No protective barrier | \$150.00 | |

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**SCHEDULE 89
COMMERCIAL AND INDUSTRIAL ENERGY EFFICIENCY
(Continued)**

PRESCRIPTIVE RETROFIT INCENTIVES (Continued)

| TABLE 5: RETROFIT - FOOD SERVICE EQUIPMENT (Continued) | | | |
|---|--|--|---------------------------|
| Equipment category | Installing | Replacing | Incentive Per Unit |
| Evaporator Fans | Add evaporator fan controls | Low or med. temp. walk-in or reach-in with no controls | \$ 75.00/fan |
| | Install ECM/PSC evap fan motor | Med. or low temp. walk-in | \$100.00/motor |
| | Install ECM/PSC fan motor | Med. or low temp. reach-in | \$ 60.00/motor |
| Floating Head, Suction Pressures | Head pressure controller | Standard head pressure control | \$ 80.00/hp |
| | Suction pressure controller | Standard suction pressure control | \$ 20.00/hp |
| Demand Controlled Kitchen Ventilation Exhaust Hood | VFD installed on kitchen exhaust and/or makeup air fan | Kitchen hood with constant speed ventilation motor | \$200/hp |
| Vending Machines | Non-cooled snack control | Vending machine with no sensor | \$ 50.00 |
| Commercial Kitchen Equipment | ENERGY STAR® undercounter dishwasher | Standard dishwasher | \$200.00 |
| | ENERGY STAR® commercial dishwasher | Standard commercial dishwasher | \$500.00 |
| | ENERGY STAR® listed electric combination oven (6-15 pans) | Standard electric oven | \$1,100.00 |
| | ENERGY STAR® listed electric combination oven (16-20 pans) | Standard electric oven | \$300.00 |
| | ENERGY STAR® listed electric convection oven | Standard electric oven | \$300.00 |
| | ENERGY STAR® listed electric fryer | Standard fryer | \$400.00 |
| | ENERGY STAR® listed electric steamer - 3 pan - 4 pan - 5 pan - 6 pan - 10 pan or larger | Standard steamer | \$ 80.00 |
| | \$100.00 | | |
| | \$150.00 | | |
| | \$175.00 | | |
| | \$200.00 | | |

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**SCHEDULE 89
COMMERCIAL AND INDUSTRIAL ENERGY EFFICIENCY
(Continued)**

PRESCRIPTIVE RETROFIT INCENTIVES (Continued)

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| TABLE 6: RETROFIT - VARIABLE SPEED/FREQUENCY DRIVES | | | |
|--|---|-----------------------------------|---------------------------|
| Equipment category | Installing | Replacing | Incentive Per Unit |
| Variable Speed Controls | Variable speed drive on HVAC system applications: - Chilled water pumps - Condenser water pumps - Cooling tower fans | Single speed HVAC system fan/pump | \$ 60.00/hp |
| | Variable speed drive on HVAC fan applications: - Supply - Return - Outside air - Make-up air - Hot water pumps | Single speed HVAC system fan/pump | \$100.00/hp |
| | Variable speed drive on potato and onion storage shed ventilation | No existing VSD | \$200.00/hp |
| | VFD on milking vacuum pump | No existing VSD | \$250/hp |

PRESCRIPTIVE NEW CONSTRUCTION INCENTIVES

| TABLE 7: LIGHTING FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS | | |
|--|---|---|
| Measure Type | Incentive | Eligibility Requirements |
| Interior Light Load Reduction | Part A: \$0.10 Part B: \$0.20 Part C: \$0.30 per square foot covered by the lighting | Lighting systems designed with a lighting power density (LPD) that is at least: Part A: 10-19.9% below the Oregon Energy Efficiency Specialty Code will be eligible for this incentive, or Part B: 20-29.9% below the Oregon Energy Efficiency Specialty Code or Part C: Equal to or greater than 30% below the Oregon Energy Efficiency Specialty Code will be eligible for this incentive. A project that is at least 60% below code and/or has high operation hours can receive a non-standard interior lighting incentive at \$0.15 per kWh saved, up to 100% of the incremental cost or 70% of total invoiced costs between a base and efficient lighting system. |
| Exterior Light Load Reduction | \$200.00 per kW below code | Must be a minimum of 15% below the Oregon Energy Efficiency Specialty Code to qualify. |
| Daylight Photo Controls | \$0.25 per square foot of daylit space | Daylight photo controls dim or turn off electric lights in response to levels of natural daylight. To qualify for an incentive, the design must include a consultation with the Integrated Design Lab or other qualified daylighting professional. |
| Occupancy Sensors | \$25.00 per sensor installed | Occupancy sensors are automatic switching devices that sense human occupancy and control the lighting system accordingly. Either wall- or ceiling-mounted sensors are eligible. |
| High Efficiency Exit Signs | \$7.50 per installed sign | Any code compliant exit sign that draws less than 2 watts per sign face including, but not limited to, light emitting diode (LED), cold cathode, electroluminescent, or self-luminous exit signs are eligible for an incentive. |

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**SCHEDULE 89
COMMERCIAL AND INDUSTRIAL ENERGY EFFICIENCY
(Continued)**

PRESCRIPTIVE NEW CONSTRUCTION INCENTIVES (Continued)

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TABLE 8: AIR CONDITIONING (HVAC) FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS

| Measure Type | Incentive | Eligibility Requirements | | | | | |
|---|--|--|--|-------------------------------|------------------|------------------|-------------------|
| Efficient Air-cooled AC, HP and VRF units | Part A: \$30.00 Part B: \$75.00 Part C: \$100.00 per ton of air conditioning | Equipment Type | Size Category (single & three phase units) | Sub-Category | Part A: \$30/ton | Part B: \$75/ton | Part C: \$100/ton |
| | | Unitary Commercial Air Conditioners, Air Cooled (Cooling Mode) | <=5 tons | Split system & single package | CEE Tier 1 | CEE Tier 2 | N/A |
| | | Heat Pumps, Air-Cooled (Cooling Mode) | <=5 tons | Split system & single package | CEE Tier 1 | CEE Tier 2 | N/A |
| | | Variable Refrigerant Flow Units | <=64 tons | Multi-split AC or Heat Pump | N/A | CEE Tier 1 | N/A |
| | | | <=5 tons | Multi-split AC or Heat Pump | N/A | N/A | CEE Tier 2 |

NOTE: Efficiency is based on AHRI and ISO standards.

| Efficient Chillers | Incentive | Equipment Type | Size Category | Requirement |
|--------------------|---|-----------------------------------|-----------------------------|--------------------------|
| | \$40.00 per ton for water cooled \$80.00 per ton for air-cooled | Air Cooled Chiller with Condenser | <150 tons | IPLV: 16.2 EER or higher |
| | | | >=150 tons | IPLV: 16.6 EER or higher |
| | Water Cooled Chiller electrically operated, reciprocating & positive displacement | <75 tons | IPLV: 0.50 OR LESS (kW/ton) | |
| | | >=75 and <150 tons | IPLV: 0.47 OR LESS (kW/ton) | |
| | | >=150 and <300 tons | IPLV: 0.44 OR LESS (kW/ton) | |
| | | >=300 and <600 tons | IPLV: 0.42 OR LESS (kW/ton) | |
| | | >=600 tons | IPLV: 0.40 OR LESS (kW/ton) | |
| | Water Cooled Chiller electrically operated, centrifugal | <150 tons | IPLV: 0.45 OR LESS (kW/ton) | |
| | | >=150 and <300 tons | IPLV: 0.43 OR LESS (kW/ton) | |
| | | >=300 and <400 tons | IPLV: 0.41 OR LESS (kW/ton) | |
| | | >=400 tons | IPLV: 0.40 OR LESS (kW/ton) | |

NOTES:

- 1) Only primary use chillers will qualify. Chillers intended for backup service only are not eligible.
- 2) Air-cooled chiller efficiencies must include condenser fan energy consumption.
- 3) Efficiency ratings for IPLV kW/ton must be based on ARI standard rating conditions per ARI-550-98 & ARI-590-98.
- 4) IPLV = Integrated Part Load Value.

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**SCHEDULE 89
COMMERCIAL AND INDUSTRIAL ENERGY EFFICIENCY
(Continued)**

PRESCRIPTIVE NEW CONSTRUCTION INCENTIVES (Continued)

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| TABLE 8: AIR CONDITIONING (HVAC) FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS (Continued) | | |
|---|--|--|
| Measure Type | Incentive | Eligibility Requirements |
| Air Side Economizer | \$75.00 per ton of air conditioning economized | Applicable economizers must allow outdoor air capacity to meet at least 85% of an air conditioning unit's airflow rate coupled with a programmable thermostat capable of two-stage cooling controls. |
| Direct Evaporative Coolers | \$200.00 per ton | Installation of a direct evaporative cooling system. Evaporatively pre-cooled DX systems do not qualify under this measure. |

| TABLE 9: BUILDING SHELL FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS | | |
|--|--|---|
| Measure Type | Incentive | Eligibility Requirements |
| Reflective Roof Treatment | \$0.05 per square foot of roof treatment | Reflective roof treatments must meet a minimum initial solar reflectivity of 0.70 and a minimum emissivity of 0.75 consistent with California's Title 24 standards for flat or minimally pitched roofs. |

| TABLE 10: CONTROLS FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS | | |
|---|---|---|
| Measure Type | Incentive | Eligibility Requirements |
| Energy Management Control System | Part A: \$60.00 per ton for 1-strategy Part B: \$70.00 per ton for 2-strategies Part C: \$80.00 per ton for 3-strategies Part D: \$90.00 per ton for 4-strategies Part E: \$100.00 per ton for 5-strategies | Systems must provide automatic control for cooling systems and incorporate specific strategies that result in energy savings over standard operation. |
| Guest Room Energy Management System | \$50.00 per unit of controlled cooling | Systems must provide occupancy based thermostatic set-back controls for the HVAC system. Eligible systems include thermostat based controls, room key-card controls and system check-in/check-out controls. |

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PRESCRIPTIVE NEW CONSTRUCTION INCENTIVES (Continued)

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| TABLE 10: CONTROLS FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS (Continued) | | |
|---|---|---|
| Measure Type | Incentive | Eligibility Requirements |
| HVAC Variable Speed Drives | Part A: \$ 60.00 per hp Part B: \$100.00 per hp Part C: \$200.00 per hp | Variable speed controls for fans, pumps and other variably-loaded electric HVAC motors Variable speed drive on HVAC system applications: Part A: \$60/hp <ul style="list-style-type: none"> • Chilled water pumps • Condenser water pumps • Cooling tower fans Part B: \$100/hp <ul style="list-style-type: none"> • Supply fan • Return fan • Outside air fan • Make-up air fan • Hot water pumps Part C: \$200/hp <ul style="list-style-type: none"> • Potato/onion storage shed ventilation |
| Demand Controlled Kitchen Ventilation Exhaust Hood | \$200.00 per hp | Variable speed drives installed for exhaust and/or makeup air fans on commercial kitchen hoods. |

| TABLE 11: APPLIANCES WITH ELECTRIC WATER HEATING FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS | | |
|---|-------------------|--|
| Measure Type | Incentive | Eligibility Requirements |
| Efficient Laundry Machines (Electric) | \$125.00 per unit | ENERGY STAR® clothes washer that has both electric water heating and uses an electric dryer |
| Efficient Undercounter Dishwashers (Electric) | \$200.00 per unit | Undercounter dishwasher that is ENERGY STAR® certified or better efficiency. |
| Efficient Commercial Dishwashers (Electric) | \$500.00 per unit | Doored, single or multi tank conveyor style dishwasher that is ENERGY STAR® certified or better efficiency and is located in fast food, pizza, full service restaurants or cafeterias. |

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PRESCRIPTIVE NEW CONSTRUCTION INCENTIVES (Continued)

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| TABLE 12: REFRIGERATION FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS | | |
|--|----------------------------------|--|
| Measure Type | Incentive | Eligibility Requirements |
| Refrigeration Head Pressure Controls | \$40.00 per compressor hp | Refrigeration systems with head pressure controls. |
| Refrigeration Floating Suction Controls | \$10.00 per compressor hp | Refrigeration systems with floating suction controls. |
| Efficient Refrigeration Condensers | \$20.00 per ton of refrigeration | Refrigeration condensers that incorporate specific strategies that result in energy savings over standard operation. |
| Strip Curtain | \$150 per curtain/door | For walk-in freezers with an unobstructed door opening |
| | \$150 per curtain/door | For walk-in refrigerators with an unobstructed door opening |
| Automatic High Speed Doors | \$4,000 per door/opening | Freezer to Refrigerator: Door controls with automatic control to open and close. |
| | \$8,000 per door/opening | Freezer to Dock: Door controls with automatic control to open and close. |

| TABLE 13: EQUIPMENT FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS | | |
|--|-------------------------|--|
| Measure Type | Incentive | Eligibility Requirements |
| Smart Power Strips | \$10.00 per power strip | Load-sensing, motion-sensing, or timer-controlled power strip. |
| High Volume Low Speed Fan | \$2,000 per fan | High volume low speed fans installed |
| Air compressor VFD | \$150 per hp | Installing a VFD on the air compressor that allow the compressor to vary the speed based on actual demand. |
| No-Loss Condensate Drain | \$300 per unit | Installing a no-loss condensate drain that monitors the amount of condensate present and then exhausts only the condensate without wasting compressed air. |
| Low Pressure Drop Filter | \$7.50 per hp | Installing a low-pressure filter that has a pressure drop between 1 and 3 psi. |
| Cycling Refrigerated Compressed Air Dryer | \$2 per CFM | Installing an efficient refrigerated compressed air dryer that cycles on and off based on the need during part load demand. |
| Efficient Compressed Air Nozzle | <= 1/4": \$30 per unit | Installing an efficient air nozzle that reduces the amount of air compared to a standard nozzle but produces the same performance. |
| | > 1/4": \$60 per unit | |

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PRESCRIPTIVE NEW CONSTRUCTION INCENTIVES (Continued)

| | | |
|------------------------------|--------------------------------|--|
| Engine Block Heater Controls | Wall Mounted: \$50 per unit | Controls that provide a 2-hour delay from first plugged in and will turn on only when outside air drops below a certain threshold. |
| | Engine Mounted: \$100 per unit | Control that cycles the heater on based on engine temperature. |
| Dairy VFD | Vacuum Pump: \$250 per hp | Installing a VFD on the pump that slows down the motor during normal operation and then speeds up when necessary. |

Note: A Professional Assistance Incentive will be provided to a third-party architect or engineer that submits the application and provides the supporting documentation that is required to complete the application and incentive process. The professional is eligible for an incentive equal to 20% of the participant's total incentive to a maximum amount of \$5,000.

CUSTOM INCENTIVES

QUALIFICATIONS

Project viability will be determined through a collaborative process involving the Company, a participating Customer, and if necessary, a qualified third party or the Customer's licensed Professional Engineer. Potential projects will be evaluated for program eligibility based upon the following criteria:

1. The technology must be generally accepted cost-effective energy efficiency technology. This determination will be at the Company's sole discretion.
2. Projects must exceed the current established building code requirements or standard practice for the applicable industry as determined by the Company.
3. If there is no corresponding prescriptive measure available, then the project may be submitted for review by the Company and, if cost-effective, the project may be eligible for a financial incentive.

OPTIONS

Energy saving projects and measures that are not covered under prescriptive sections of this Schedule may be eligible for Custom Incentives based on the calculated energy savings. There are two incentive options available under the Custom Incentive; the Cost-Share option or the Self-Directed Funds option. The Cost-Share option is available to all Customers that meet the requirements of the Custom Incentive offering. The Self-Directed Funds option is available only to Customers taking service under Schedule 19. The maximum incentive payment will not exceed \$0.18 per first-year kilowatt-hour saved under either incentive option.

Option 1 - Cost-Share. Financial incentives are determined under the Cost-Share option using the lesser of the following two calculations:

1. Up to \$0.18 per first-year kilowatt-hours saved
2. 70% of eligible project costs

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CUSTOM INCENTIVE OPTIONS (Continued)

OPTIONS (Continued)

Option 2 - Self-Directed. Under the Self-Directed Funds option, the Customer's contributions to the Energy Efficiency Rider are tracked starting from the latter of the following: June 2005 or the last Cost-Share project paid and funds expected to accrue for a maximum of three years from the date the pre-application is received. Customers selecting this option will have direct use of 100% of the funds for implementation of cost-effective DSM projects. Any funds not utilized by the Customer will remain pooled with the rest of the Energy Efficiency Rider, Schedule 91, funds. Customers may combine individual account funds from multiple sites to implement cost-effective DSM projects under this option. Financial incentives are determined under the Self-Directed option using the lesser of the following two calculations:

- 1. Up to \$0.18 per first-year kilowatt-hours saved
- 2. 100% of eligible project costs

ENERGY MANAGEMENT

QUALIFICATIONS

Customers may qualify for offerings created to save electricity through operational improvements which, when implemented, result in cost-effective savings compared to current operations as determined by the Company. These projects may include tune-ups, industrial system optimization or retro-commission, strategic energy management, and other non-capital measures on a case-by-case basis. Financial incentives for these kinds of offerings are determined to be the lesser of the following two calculations:

- 1. \$0.025 per kilowatt-hours saved
- 2. 100% of eligible costs

DEFINITIONS

Strategic Energy Management (SEM) is a system of organizational practices, policies, and processes that creates persistent energy savings by integrating energy management into business practices by focusing on changes in daily operations that engage staff at all levels of an organization in energy efficiency activities.

Tune-up/system optimization/retro-commission is a focused short-term project to improve the energy usage of an existing specific process, equipment, or system, typically evaluated, documented, addressed, and implemented within a few weeks.

GREEN MOTORS INITIATIVE

The Green Motors Initiative employs industry best practices when rewinding motors (Green Rewind). The certified rewind process ensures that the motor maintains its original efficiency when the rewind is complete. Motors between 25 and 5,000 horsepower are eligible. Idaho Power pays participating service centers \$2.00 per horsepower for each motor that received a verified Green Rewind. Each motor receiving Green Rewind is verified by a non-profit trade organization, Green Motors Practice Group. Motors must be rewound in a certified participating service center that has the equipment and training to perform Green Rewind. For a current list of motor service centers offering Green Rewind please see <https://www.greenmotors.org/motor-service-centershttp://greenmotors.org/practicing.htm>. Some motors may not be able to qualify as a green rewind due to extenuating circumstances, such as a damaged stator or rotor.

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SCHEDULE 89
COMMERCIAL AND INDUSTRIAL ENERGY EFFICIENCY
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SMALL BUSINESS DIRECT INSTALL

QUALIFICATIONS

The Small Business Direct Install program is available to Idaho Power business customers using up to 25,000 kilowatt-hours annually. The program will be offered over a three-year period, November 2019 through December 2022, and will be offered in specific geographic regions of Idaho Power's service area for a limited time during that three-year period. Eligible customers will be informed by direct mail letter and other marketing strategies when the program will be in their region. Marketing material will include a program website and phone number customers may call to obtain program information and sign up to participate.

SERVICES PROVIDED

The Small Business Direct Install program will offer to customers the installation of energy efficient products at no cost to the customer. Project installations will be performed by contractors hired by an Idaho Power contractor, and all products and their installation will be paid for by Idaho Power. Project installations may include energy saving LED product, occupancy sensors, and a smart power strip measure, as applicable.

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COMMERCIAL AND INDUSTRIAL ENERGY EFFICIENCY
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