## Appendix 1

Program and Portfolio Level Cost-Effectiveness



## MEMORANDUM

To: Don Jones, Jr., Nancy Goddard, and Elaine Prause, Pacific Power

From: Eli Morris, AEG

Date: October 9, 2020

Re: Washington Portfolio Level Cost-Effectiveness Analysis – 2020-2021 Biennium

AEG estimated the cost-effectiveness of Pacific Power's overall energy efficiency portfolio and individual programs in the state of Washington based on Program Year (PY) 2020 and PY2021 costs and savings estimates provided by Pacific Power.<sup>1</sup> The memo provides analysis inputs and results in the following tables:

Table 1: Utility Inputs

Table 2: Portfolio-Level Costs - PY2020 and PY2021

Table 3: Program Costs, Nominal - PY2020 and PY2021

Table 4: Savings by Program - PY2020 and PY2021

Table 5: Portfolio-Level Benefit/Cost Ratios - PY2020 and PY2021

Table 6: Total Portfolio Cost-Effectiveness Results - PY2020 and PY2021

Table 7: Total Portfolio Including NEIs Cost-Effectiveness Results - PY2020 and PY2021

Table 8: Total Portfolio Including NEEA Cost-Effectiveness Results - PY2020 and PY2021

Table 9: Total Portfolio Including NEIs and NEEA Cost-Effectiveness Results - PY2020 and PY2021

Table 10: Benefit/Cost Ratios by Program - PY2020 and PY2021

Table 11: Home Energy Savings Cost-Effectiveness Results - PY2020 and PY2021

Table 12: Home Energy Savings Including NEIs Cost-Effectiveness Results - PY2020 and PY2021

Table 13: Home Energy Reports Cost-Effectiveness Results - PY2020 and PY2021

Table 14: Wattsmart Business Cost-Effectiveness Results - PY2020 and PY2021

Table 15: Wattsmart Business Including NEIs Cost-Effectiveness Results - PY2020 and PY2021

Table 16: NEEA Cost-Effectiveness Results - PY2020 and PY2021

Table 17: Home Energy Savings Non-Energy Impacts - PY2020 and PY2021

<sup>&</sup>lt;sup>1</sup> Consistent with Section 480-109-100 (10) (b) of the Washington Administrative Code, the Low-Income Weatherization program is excluded from this analysis.

Table 18: Wattsmart Business Non-Energy Impacts - PY2020 and PY2021

The following assumptions were utilized in the analysis:

- Avoided Costs: developed from a draft run of Portfolio "P-18 v06292019" in PacifiCorp's 2019 Integrated Resource Plan IRP),<sup>2</sup> converted into annual values using load shapes from the same IRP.
- Modeling Inputs: measure savings, costs, non-energy impacts (NEIs), measure lives, incentive levels, program delivery, and portfolio costs were based on estimates provided by PacifiCorp.
- Net-to-Gross (NTG): ratios are assumed to be 1.0, consistent with condition (8)(a) to Order 01 in Docket UE-152072.
- Retail Rates: 2018 rates provided by PacifiCorp and escalated by inflation for future years.

The following tables summarize cost-effectiveness assumptions and results for the Washington portfolio and associated programs.

Table 1: Utility Inputs

Parameter	Value
Discount Rate <sup>3</sup>	6.920%
Residential Line Loss	7.676%
Commercial Line Loss	7.602%
Industrial Line Loss	6.815%
Irrigation Line Loss	7.676%
Residential Energy Rate (\$/kWh)	\$0.0836
Commercial Energy Rate (\$/kWh)	\$0.0717
Industrial Energy Rate (\$/kWh)	\$0.0887
Irrigation Energy Rate (\$/kWh)	\$0.1327
Inflation Rate <sup>4</sup>	2.280%

Table 2: Portfolio-Level Costs, Nominal - PY2020 and PY2021

Category	PY2020	PY2021
Be wattsmart, Begin at Home	\$64,523	\$64,523
Customer Outreach/Communication	\$250,000	\$250,000
Program Evaluations (& Savings Verification)	\$549,524	\$259,662
Potential Study Update/Analysis	\$120,115	\$95,368
System Support	\$157,735	\$148,543
End Use Load Research & RTF Funding	\$109,500	\$85,500
Total	\$1,251,397	\$903,596

<sup>&</sup>lt;sup>2</sup> Proxy decrement study aligned with P-18 proxy portfolio.

<sup>&</sup>lt;sup>3</sup> Consistent with draft assumptions for PacifiCorp's 2019 Integrated Resource Plan.

<sup>&</sup>lt;sup>4</sup> Future rates determined using a 2.28% annual escalator.

Table 3: Program Costs, Nominal - PY2020 and PY2021

Program	Program Delivery	Utility Admin	Incentives	Total Utility Budget	Gross Customer Costs
Home Energy Savings	\$3,432,050	\$135,022	\$3,317,467	\$6,884,539	\$6,793,542
Home Energy Reports	\$499,000	\$55,000	\$0	\$554,000	\$0
Wattsmart Business	\$5,743,812	\$1,118,891	\$7,135,924	\$13,998,627	\$15,792,687
NEEA	\$1,618,777	\$55,000	\$0	\$1,673,777	\$0
Total (excluding Portfolio-Level)	\$11,293,639	\$1,363,913	\$10,453,391	\$23,110,943	\$22,586,229

Table 4: Savings by Program - PY2020 and PY2021

Program	Gross kWh Savings at Site	Realization Rate	Adjusted Gross kWh Savings at Site	Net to Gross Ratio	Net kWh Savings at Site	Average Measure Life
Home Energy Savings	9,724,900	81%	7,838,078	100%	7,838,078	13
Home Energy Reports	4,452,000	100%	4,452,000	100%	4,452,000	2
Wattsmart Business	59,814,000	96%	57,178,784	100%	57,178,784	9
NEEA <sup>5</sup>	6,852,424	100%	6,852,424	100%	6,852,424	14
Total Program	80,843,324	94%	76,321,286	100%	76,321,286	9

Table 5: Portfolio-Level Benefit/Cost Ratios - PY2020 and PY2021

Program	PTRC	TRC	UCT	PCT	RIM
Total Portfolio	1.56	1.41	2.14	2.40	0.75
Total Portfolio with NEIs	1.59	1.45	2.14	2.45	0.75
Total Portfolio with NEEA	1.69	1.54	2.28	2.65	0.77
Total Portfolio with NEEA and NEIs	1.72	1.57	2.28	2.70	0.77

Table 6: Total Portfolio Cost-Effectiveness Results - PY2020 and PY2021

Cost-Effectiveness Test	Levelized \$/kWh	Costs	Benefits	Net Benefits	Benefit/Cost Ratio
Total Resource Cost Test (PTRC) + Conservation Adder	\$0.0747	\$32,240,430	\$50,166,658	\$17,926,228	1.56
Total Resource Cost Test (TRC) No Adder	\$0.0747	\$32,240,430	\$45,606,053	\$13,365,623	1.41
Utility Cost Test (UCT)	\$0.0493	\$21,282,233	\$45,606,053	\$24,323,820	2.14
Participant Cost Test (PCT)		\$20,363,751	\$48,883,969	\$28,520,217	2.40
Rate Impact Test (RIM)		\$60,760,647	\$45,606,053	(\$15,154,594)	0.75
Lifecycle Revenue Impacts (\$/kWh)					\$0.0011650
Discounted Participant Payback (years)					3.39

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<sup>&</sup>lt;sup>5</sup> NEEA savings are adjusted to exclude C&S outside CPA potential consistent with PY2020 and PY2021 Business Plan.

Table 7: Total Portfolio Including NEIs Cost-Effectiveness Results - PY2020 and PY2021

Cost-Effectiveness Test	Levelized \$/kWh	Costs	Benefits	Net Benefits	Benefit/Cost Ratio
Total Resource Cost Test (PTRC) + Conservation Adder	\$0.0747	\$32,240,430	\$51,230,875	\$18,990,446	1.59
Total Resource Cost Test (TRC) No Adder	\$0.0747	\$32,240,430	\$46,670,270	\$14,429,841	1.45
Utility Cost Test (UCT)	\$0.0493	\$21,282,233	\$45,606,053	\$24,323,820	2.14
Participant Cost Test (PCT)		\$20,363,751	\$49,948,186	\$29,584,435	2.45
Rate Impact Test (RIM)		\$60,760,647	\$45,606,053	(\$15,154,594)	0.75
Lifecycle Revenue Impacts (\$/kWh)					\$0.0011650
Discounted Participant Payback (years)					3.30

Table 8: Total Portfolio Including NEEA Cost-Effectiveness Results - PY2020 and PY2021

Cost-Effectiveness Test	Levelized \$/kWh	Costs	Benefits	Net Benefits	Benefit/Cost Ratio
Total Resource Cost Test (PTRC) + Conservation Adder	\$0.0696	\$33,754,886	\$57,142,432	\$23,387,546	1.69
Total Resource Cost Test (TRC) No Adder	\$0.0696	\$33,754,886	\$51,947,665	\$18,192,780	1.54
Utility Cost Test (UCT)	\$0.0470	\$22,796,689	\$51,947,665	\$29,150,976	2.28
Participant Cost Test (PCT)		\$20,363,751	\$53,981,831	\$33,618,079	2.65
Rate Impact Test (RIM)		\$67,372,965	\$51,947,665	(\$15,425,300)	0.77
Lifecycle Revenue Impacts (\$/kWh)					\$0.0012918
Discounted Participant Payback (years)					3.19

Table 9: Total Portfolio Including NEIs and NEEA Cost-Effectiveness Results - PY2020 and PY2021

Cost-Effectiveness Test	Levelized \$/kWh	Costs	Benefits	Net Benefits	Benefit/Cost Ratio
Total Resource Cost Test (PTRC) + Conservation Adder	\$0.0696	\$33,754,886	\$58,206,649	\$24,451,764	1.72
Total Resource Cost Test (TRC) No Adder	\$0.0696	\$33,754,886	\$53,011,883	\$19,256,997	1.57
Utility Cost Test (UCT)	\$0.0470	\$22,796,689	\$51,947,665	\$29,150,976	2.28
Participant Cost Test (PCT)		\$20,363,751	\$55,046,048	\$34,682,297	2.70
Rate Impact Test (RIM)		\$67,372,965	\$51,947,665	(\$15,425,300)	0.77
Lifecycle Revenue Impacts (\$/kWh)					\$0.0012918
Discounted Participant Payback (years)					3.11

Table 10: Benefit/Cost Ratios by Program - PY2020 and PY2021

Program	PTRC	TRC	UCT	PCT	RIM
Home Energy Savings	0.78	0.71	1.07	1.42	0.56
Home Energy Savings with NEIs	0.88	0.81	1.07	1.57	0.56
Home Energy Reports	2.01	1.83	1.83	0.00	0.67
Wattsmart Business	2.05	1.86	3.01	2.76	0.84
Wattsmart Business with NEIs	2.05	1.87	3.01	2.77	0.84
NEEA	4.61	4.19	4.19	0.00	0.96

Table 11: Home Energy Savings Cost-Effectiveness Results - PY2020 and PY2021

Cost-Effectiveness Test	Levelized \$/kWh	Costs	Benefits	Net Benefits	Benefit/Cost Ratio
Total Resource Cost Test (PTRC) + Conservation Adder	\$0.1652	\$9,303,642	\$7,244,981	(\$2,058,661)	0.78
Total Resource Cost Test (TRC) No Adder	\$0.1652	\$9,303,642	\$6,586,346	(\$2,717,296)	0.71
Utility Cost Test (UCT)	\$0.1097	\$6,179,544	\$6,586,346	\$406,802	1.07
Participant Cost Test (PCT)		\$6,092,601	\$8,636,034	\$2,543,433	1.42
Rate Impact Test (RIM)		\$11,847,074	\$6,586,346	(\$5,260,728)	0.56
Lifecycle Revenue Impacts (\$/kWh)					\$0.0002271
Discounted Participant Payback (years)					7.82

Table 12: Home Energy Savings Including NEIs Cost-Effectiveness Results - PY2020 and PY2021

Cost-Effectiveness Test	Levelized \$/kWh	Costs	Benefits	Net Benefits	Benefit/Cost Ratio
Total Resource Cost Test (PTRC) + Conservation Adder	\$0.1652	\$9,303,642	\$8,159,841	(\$1,143,801)	0.88
Total Resource Cost Test (TRC) No Adder	\$0.1652	\$9,303,642	\$7,501,207	(\$1,802,435)	0.81
Utility Cost Test (UCT)	\$0.1097	\$6,179,544	\$6,586,346	\$406,802	1.07
Participant Cost Test (PCT)		\$6,092,601	\$9,550,894	\$3,458,293	1.57
Rate Impact Test (RIM)		\$11,847,074	\$6,586,346	(\$5,260,728)	0.56
Lifecycle Revenue Impacts (\$/kWh)					\$0.0002271
Discounted Participant Payback (years)					6.75

Table 13: Home Energy Reports Cost-Effectiveness Results - PY2020 and PY2021

Cost-Effectiveness Test	Levelized \$/kWh	Costs	Benefits	Net Benefits	Benefit/Cost Ratio
Total Resource Cost Test (PTRC) + Conservation Adder	\$0.0508	\$502,013	\$1,009,392	\$507,380	2.01
Total Resource Cost Test (TRC) No Adder	\$0.0508	\$502,013	\$917,629	\$415,617	1.83
Utility Cost Test (UCT)	\$0.0508	\$502,013	\$917,629	\$415,617	1.83
Participant Cost Test (PCT)		\$0	\$864,896	\$864,896	n/a
Rate Impact Test (RIM)		\$1,366,908	\$917,629	(\$449,279)	0.67
Lifecycle Revenue Impacts (\$/kWh)					\$0.0001324
Discounted Participant Payback (years)					0.00

Table 14: Wattsmart Business Cost-Effectiveness Results - PY2020 and PY2021

Cost-Effectiveness Test	Levelized \$/kWh	Costs	Benefits	Net Benefits	Benefit/Cost Ratio
Total Resource Cost Test (PTRC) + Conservation Adder	\$0.0560	\$20,473,953	\$41,912,285	\$21,438,332	2.05
Total Resource Cost Test (TRC) No Adder	\$0.0560	\$20,473,953	\$38,102,077	\$17,628,124	1.86
Utility Cost Test (UCT)	\$0.0346	\$12,639,854	\$38,102,077	\$25,462,223	3.01
Participant Cost Test (PCT)		\$14,271,150	\$39,383,039	\$25,111,889	2.76
Rate Impact Test (RIM)		\$45,585,842	\$38,102,077	(\$7,483,765)	0.84
Lifecycle Revenue Impacts (\$/kWh)					\$0.0012226
Discounted Participant Payback (years)					3.27

Table 15: Wattsmart Business Including NEIs Cost-Effectiveness Results - PY2020 and PY2021

Cost-Effectiveness Test	Levelized \$/kWh	Costs	Benefits	Net Benefits	Benefit/Cost Ratio
Total Resource Cost Test (PTRC) + Conservation Adder	\$0.0560	\$20,473,953	\$42,061,642	\$21,587,689	2.05
Total Resource Cost Test (TRC) No Adder	\$0.0560	\$20,473,953	\$38,251,434	\$17,777,481	1.87
Utility Cost Test (UCT)	\$0.0346	\$12,639,854	\$38,102,077	\$25,462,223	3.01
Participant Cost Test (PCT)		\$14,271,150	\$39,532,396	\$25,261,246	2.77
Rate Impact Test (RIM)		\$45,585,842	\$38,102,077	(\$7,483,765)	0.84
Lifecycle Revenue Impacts (\$/kWh)					\$0.0012226
Discounted Participant Payback (years)					3.24

Table 16: NEEA Cost-Effectiveness Results - PY2020 and PY2021

Cost-Effectiveness Test	Levelized \$/kWh	Costs	Benefits	Net Benefits	Benefit/Cost Ratio
Total Resource Cost Test (PTRC) + Conservation Adder	\$0.0283	\$1,514,456	\$6,975,774	\$5,461,318	4.61
Total Resource Cost Test (TRC) No Adder	\$0.0283	\$1,514,456	\$6,341,613	\$4,827,156	4.19
Utility Cost Test (UCT)	\$0.0283	\$1,514,456	\$6,341,613	\$4,827,156	4.19
Participant Cost Test (PCT)		\$0	\$5,097,862	\$5,097,862	n/a
Rate Impact Test (RIM)		\$6,612,318	\$6,341,613	(\$270,705)	0.96
Lifecycle Revenue Impacts (\$/kWh)					\$0.0001268
Discounted Participant Payback (years)					0.00

Table 17: Home Energy Savings Non-Energy Impacts - PY2020 and PY2021

Measure	Annual Non- Energy Impacts per Measure	Total Installs	Measure Life	Total Present Value NEIs
Clothes Dryer - Ventless_UCEF 3.20 to 3.39 - WA	\$4.06	4	12	\$121
Clothes Dryer - Ventless_UCEF 3.40 to 3.59 - WA	\$3.88	4	12	\$116
Clothes Dryer - Ventless_UCEF 3.60 to 3.79 - WA	\$3.72	6	12	\$170
Clothes Dryer - Ventless_UCEF 3.80 to 4.19 - WA	\$3.52	5	12	\$131
Clothes Dryer - Ventless_UCEF 4.20 to 4.69 - WA	\$3.27	2	12	\$52
Clothes Dryer - Ventless_UCEF 7.20 to 8.00 - WA	\$2.31	4	12	\$74
Clothes Washers - CEE Advanced Tier - Electric DHW & Electric Dryer - WA	\$22.16	4	14	\$729
Clothes Washers - CEE Advanced Tier - Electric DHW & Gas Dryer - WA	\$22.16	4	14	\$729
Clothes Washers - CEE Advanced Tier - Gas DHW & Electric Dryer - WA	\$22.16	4	14	\$729
Clothes Washers - CEE Tier 1 - Electric DHW & Electric Dryer - WA	\$19.02	6	14	\$960
Clothes Washers - CEE Tier 1 - Electric DHW & Gas Dryer - WA	\$19.02	4	14	\$625
Clothes Washers - CEE Tier 1 - Gas DHW & Electric Dryer - WA	\$19.02	4	14	\$625
Clothes Washers - CEE Tier 2 - Electric DHW & Electric Dryer - WA	\$17.91	58	14	\$9,088
Clothes Washers - CEE Tier 2 - Electric DHW & Gas Dryer - WA	\$17.91	6	14	\$904
Clothes Washers - CEE Tier 2 - Gas DHW & Electric Dryer - WA	\$17.91	4	14	\$589
Clothes Washers - CEE Tier 3 - Electric DHW & Electric Dryer - WA	\$22.16	10	14	\$1,947
Clothes Washers - CEE Tier 3 - Electric DHW & Gas Dryer - WA	\$22.16	1	14	\$195
Clothes Washers - CEE Tier 3 - Gas DHW & Electric Dryer - WA	\$22.16	3	14	\$584
Ductless Heat Pump - eFAF to DHP 9.0 to 9.4 - WA	\$158.08	44	15	\$59,738
Ductless Heat Pump - eFAF to DHP 9.5 and above - WA	\$172.22	46	15	\$69,255
Ductless Heat Pump - Zonal to DHP 11.1 to 12.5 - WA	\$50.10	56	15	\$25,030
Ductless Heat Pump - Zonal to DHP 12.6 and above - WA	\$50.10	14	15	\$6,065
Ductless Heat Pump - Zonal to DHP 9.0 to 11.0 - WA	\$50.10	78	15	\$35,119
Energy Savings Kit - Best - 1 Bathroom - WA	\$56.23	600	9	\$220,561
Energy Savings Kit - Best - 2 Bathrooms - WA	\$86.73	250	9	\$141,744
Energy Savings Kit - LED - WA	\$0.77	2,600	5	\$8,226
Fixture - Bathroom Vanity - 1000 to 1999 Lumens - WA	\$0.79	216	9	\$1,049
Fixture - Bathroom Vanity - 2000 to 3999 Lumens - WA	\$1.53 \$0.23	209 200	9	\$1,964 \$233
Fixture - Bathroom Vanity - 250 to 499 Lumens - WA Fixture - Bathroom Vanity - 500 to 999 Lumens - WA	\$0.44	200	8	\$493
Fixture - Ceiling & Wall Flush Mount - 1000 to 1999 Lumens - WA	\$0.70	2,108	6	\$6,834
Fixture - Ceiling & Wall Flush Mount - 2000 to 3999 Lumens - WA	\$1.36	468	6	\$2,957
Fixture - Ceiling & Wall Flush Mount - 4000 to 7999 Lumens - WA	\$2.52	211	6	\$2,381
Fixture - Ceiling & Wall Flush Mount - 500 to 999 Lumens - WA	\$0.39	552	5	\$885
Fixture - Downlight - 2000 to 3999 Lumens - WA	\$1.95	367	4	\$2,341
Fixture - Downlight - 4000 to 7999 Lumens - WA	\$3.61	200	4	\$2,291
Fixture - Exterior Porch - 1000 to 1999 Lumens - WA	\$1.24	200	3	\$610
Fixture - Exterior Porch - 2000 to 3999 Lumens - WA	\$2.39	200	3	\$1,175
Fixture - Exterior Porch - 4000 to 7999 Lumens - WA	\$4.42	200	3	\$2,173
Fixture - Exterior Porch - 500 to 999 Lumens - WA	\$0.68	316	3	\$565
Fixture - Exterior Security - 1000 to 1999 Lumens - WA	\$0.90	211	9	\$1,163
Fixture - Exterior Security - 2000 to 3999 Lumens - WA	\$1.73	272	9	\$2,930
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Exture - Exterior Security - 250 to 499 Lumens - WA	Measure	Annual Non- Energy Impacts per Measure	Total Installs	Measure Life	Total Present Value NEIs
Fixture - Exterior Security - 500 to 999 Lumens - WA	Fixture - Exterior Security - 250 to 499 Lumens - WA	\$0.26	237	9	\$381
Fixture - Track - 1000 to 1999 Lumens - WA	Fixture - Exterior Security - 4000 to 7999 Lumens - WA	\$3.20	200	8	\$3,585
Fixture - Track - 2000 to 3999 Lumens - WA	Fixture - Exterior Security - 500 to 999 Lumens - WA	\$0.49	216	9	\$650
Fixture - Track - 4000 to 7999 Lumens - WA	Fixture - Track - 1000 to 1999 Lumens - WA	\$0.93	200	8	\$1,042
Fixture - Track - 500 to 999 Lumens - WA	Fixture - Track - 2000 to 3999 Lumens - WA	\$1.80	212	8	\$2,146
Heat Pump - Conversion to 9.0+ HSPF - Convert FAF without CAC	Fixture - Track - 4000 to 7999 Lumens - WA	\$3.33	200	8	\$3,731
Heat Pump - Conversion to 9.0+ HSPF with Best Practice Install & \$23.98	Fixture - Track - 500 to 999 Lumens - WA	\$0.51	200	8	\$571
Sizing - Convert FAF without CAC - WA	·	\$23.98	50	18	\$11,346
w/out CAC - WA         Heat Pump - Conversion with Best Practice Install & Sizing - Convert FAF without CAC - WA         \$23.98         52         15         \$11,415           Convert FAF without CAC - WA         \$23.98         2         15         \$439           Convert Federal FAF w/out CAC - WA         \$0.01         46,000         45         \$6,320           Insulation - Attic - Gas Heated - R11 to R49 - WA         \$0.01         37,854         45         \$5,201           Insulation - Attic - Zonal or DHP - R11 to R49 - WA         \$0.01         12,362         45         \$1,663           Insulation - Floor - Sas Heated - R11 to R49 - WA         \$0.01         12,362         45         \$1,663           Insulation - Floor - Gas Heated - R11 to R49 - WA         \$0.01         12,362         45         \$1,663           Insulation - Floor - 2 Gas Heated - R11 to R49 - WA         \$0.02         6,972         45         \$1,664           Insulation - Floor - 2 Gas Heated - R11 to R49 - WA         \$0.02         6,972         45         \$1,684           Insulation - Floor - 2 Gas Heated - R11 to R49 - WA         \$0.02         7,354         45         \$2,021           Insulation - Wall - FeAF - R0 to R30 - WA         \$0.02         7,354         45         \$2,021           Insulation - Wall - FeAF - R0 to R13 - WA	•	\$23.98	30	15	\$6,585
Convert FAF without CAC - WA   Heat Pump - Conversion with Best Practice Install & Sizing - Convert Federal FAF w/out CAC - WA     Insulation - Attic - eFAF - R11 to R49 - WA   \$0.01   46,000   45   \$6,320     Insulation - Attic - Gas Heated - R11 to R49 - WA   \$0.01   37,854   45   \$5,201     Insulation - Attic - Gas Heated - R11 to R49 - WA   \$0.01   12,362   45   \$1,663     Insulation - Attic - Conal or DHP - R11 to R49 - WA   \$0.01   12,362   45   \$1,663     Insulation - Filoor - EFAF - R0 to R30 - WA   \$0.02   6,772   45   \$1,893     Insulation - Filoor - Zonal or DHP - R0 to R30 - WA   \$0.02   7,7354   45   \$2,021     Insulation - Wall - EFAF - R0 to R13 - WA   \$0.04   840   45   \$462     Insulation - Wall - EFAF - R0 to R13 - WA   \$0.03   4,012   45   \$1,654     LEDs - Decorative & Mini-Base - 250 to 1049 Lumens - WA   \$0.56   13,775   2   \$13,963     LEDs - General Purpose & Three-Way - 1050 to 1489 Lumens - WA   \$0.70   24,100   4   \$55,401     WA   LEDs - General Purpose & Three-Way - 1950 to 1489 Lumens - WA   \$0.31   13,156   2   \$7,382     WA   LEDs - General Purpose & Three-Way - 250 to 1049 Lumens - WA   \$0.24   76,200   2   \$33,102     LEDs - General Purpose & Three-Way - 250 to 1049 Lumens - WA   \$0.41   10,285   2   \$7,633     LEDs - General Purpose & Three-Way - 250 to 1049 Lumens - WA   \$0.41   10,285   2   \$7,633     LEDs - MR 500 to 999 Lumens (Pin Base) - WA   \$0.41   100   3   \$101     LEDs - Non-MR Bi-Pin 250 to 499 Lumens (Pin Base) - WA   \$0.36   546   11   \$1,334     LEDs - Non-MR Bi-Pin 250 to 499 Lumens (Pin Base) - WA   \$0.51   100   9   \$312     LEDs - Reflectors & Outdoor - 1950 to 1489 Lumens - WA   \$0.24   4,793   2   \$2,015     LEDs - Reflectors & Outdoor - 1950 to 1489 Lumens - WA   \$0.24   4,793   2   \$2,015     LEDs - Reflectors & Outdoor - 1950 to 1489 Lumens - WA   \$0.20   24,927   1   \$4,542     Manufactured Home - Ductless Heat Pump - eFAF to DHP 9.5 and above - WA   \$0.20   \$24,927   1   \$4,542     Manufactured Home - Ductless Heat Pump - FAF to DHP 9.5 and above -	·	\$23.98	50	18	\$11,346
Insulation - Attic - EFAF - R11 to R49 - WA   \$0.01   46,000   45   \$6,320   Insulation - Attic - Gas Heated - R11 to R49 - WA   \$0.01   37,854   45   \$5,201   Insulation - Attic - Gas Heated - R11 to R49 - WA   \$0.01   37,854   45   \$5,201   Insulation - Attic - Zonal or DHP - R11 to R49 - WA   \$0.01   12,362   45   \$1,663   Insulation - Floor - EFAF - R0 to R30 - WA   \$0.02   6,972   45   \$1,893   Insulation - Floor - Zonal or DHP - R0 to R30 - WA   \$0.02   7,354   45   \$2,021   Insulation - Floor - Zonal or DHP - R0 to R30 - WA   \$0.02   7,354   45   \$2,021   Insulation - Wall - EFAF - R0 to R33 - WA   \$0.04   840   45   \$462   Insulation - Wall - Zonal or DHP - R0 to R13 - WA   \$0.03   4,012   45   \$1,654   Insulation - Wall - Zonal or DHP - R0 to R13 - WA   \$0.03   4,012   45   \$1,654   Insulation - Wall - Zonal or DHP - R0 to R13 - WA   \$0.03   4,012   45   \$1,654   Insulation - Wall - Zonal or DHP - R0 to R13 - WA   \$0.03   4,012   45   \$1,654   Insulation - Wall - Zonal or DHP - R0 to R13 - WA   \$0.03   4,012   45   \$1,654   Insulation - Wall - Zonal or DHP - R0 to R13 - WA   \$0.03   4,012   45   \$1,654   Insulation - Wall - Zonal or DHP - R0 to R13 - WA   \$0.00   \$2,170   \$1,775   \$2   \$13,963   Insulation - Wall - Zonal or DHP - R0 to R13 - WA   \$0.70   \$2,100   \$4   \$55,401   WA   \$1,775   \$2   \$13,963   Insulation - Wall - Zonal or DHP - R0 to R13 - WA   \$0.24   76,200   \$2   \$33,102   Insulation - Wall - Zonal Purpose & Three-Way - 190 to 1489 Lumens - WA   \$0.24   76,200   \$2   \$33,102   Insulation - Zonal Purpose & Three-Way - 250 to 1049 Lumens - WA   \$0.24   76,200   \$2   \$33,102   Insulation - Xonal Purpose & Three-Way - 250 to 1049 Lumens - WA   \$0.21   10,285   \$2   \$7,633   Insulation - Xonal Purpose & Three-Way - 250 to 1049 Lumens - WA   \$0.21   10,285   \$2   \$7,633   Insulation - Xonal Purpose & Three-Way - 250 to 1049 Lumens - WA   \$0.21   10,285   \$2   \$3,633   Insulation - Xonal Purpose & Three-Way - 250 to 1049 Lumens - WA   \$0.24   4,793   \$2   \$2,015   Insulation - Xonal Purpose		\$23.98	52	15	\$11,415
Insulation - Attic - Gas Heated - R11 to R49 - WA	·	\$23.98	2	15	\$439
Insulation - Attic - Zonal or DHP - R11 to R49 - WA	Insulation - Attic - eFAF - R11 to R49 - WA	\$0.01	46,000	45	\$6,320
Insulation - Floor - eFAF - R0 to R30 - WA	Insulation - Attic - Gas Heated - R11 to R49 - WA	\$0.01	37,854	45	\$5,201
Insulation - Floor - Zonal or DHP - R0 to R30 - WA \$0.02 7,354 45 \$2,021 Insulation - Wall - eFAF - R0 to R13 - WA \$0.04 840 45 \$462 Insulation - Wall - eFAF - R0 to R13 - WA \$0.03 4,012 45 \$1,654 LEDs - Decorative & Mini-Base - 250 to 1049 Lumens - WA \$0.56 13,775 2 \$13,963 LEDs - General Purpose & Three-Way - 1050 to 1489 Lumens - \$0.70 24,100 4 \$55,401 WA \$13,000 \$13,156 \$2 \$7,382 WA \$10,000 \$2,	Insulation - Attic - Zonal or DHP - R11 to R49 - WA	\$0.01	12,362	45	\$1,663
Insulation - Wall - eFAF - R0 to R13 - WA	Insulation - Floor - eFAF - R0 to R30 - WA	\$0.02	6,972	45	\$1,893
Insulation - Wall - Zonal or DHP - R0 to R13 - WA	Insulation - Floor - Zonal or DHP - R0 to R30 - WA	\$0.02	7,354	45	\$2,021
LEDs - Decorative & Mini-Base - 250 to 1049 Lumens - WA       \$0.56       13,775       2       \$13,963         LEDs - General Purpose & Three-Way - 1050 to 1489 Lumens - WA       \$0.70       24,100       4       \$55,401         WA       \$0.70       24,100       4       \$55,401         LEDs - General Purpose & Three-Way - 1490 to 2600 Lumens - WA       \$0.31       13,156       2       \$7,382         WA       \$0.24       76,200       2       \$33,102         LEDs - General Purpose & Three-Way - 250 to 1049 Lumens - WA       \$0.41       10,285       2       \$7,633         LEDs - Globe - 250 to 1049 Lumens - WA       \$0.41       10,285       2       \$7,633         LEDs - MR 250 to 499 Lumens (Pin Base) - WA       \$0.27       200       4       \$171         LEDs - Non-MR Bi-Pin 250 to 499 Lumens (Pin Base) - WA       \$0.41       100       3       \$101         LEDs - Non-MR Bi-Pin 500 to 999 Lumens (Pin Base) - WA       \$0.36       546       11       \$1,384         LEDs - Reflectors & Outdoor - 1050 to 1489 Lumens - WA       \$0.51       100       9       \$312         LEDs - Reflectors & Outdoor - 1490 to 2600 Lumens - WA       \$0.82       403       3       \$840         LEDs - Reflectors & Outdoor - 250 to 1049 Lumens - WA       \$0.20       2	Insulation - Wall - eFAF - R0 to R13 - WA	\$0.04	840	45	\$462
LEDs - General Purpose & Three-Way - 1050 to 1489 Lumens - WA       \$0.70       24,100       4       \$55,401         LEDs - General Purpose & Three-Way - 1490 to 2600 Lumens - WA       \$0.31       13,156       2       \$7,382         WA       \$0.24       76,200       2       \$33,102         LEDs - General Purpose & Three-Way - 250 to 1049 Lumens - WA       \$0.41       10,285       2       \$7,633         LEDs - Globe - 250 to 1049 Lumens - WA       \$0.41       10,285       2       \$7,633         LEDs - MR 250 to 499 Lumens (Pin Base) - WA       \$0.27       200       4       \$171         LEDs - MR 500 to 999 Lumens (Pin Base) - WA       \$0.41       100       3       \$101         LEDs - Non-MR Bi-Pin 250 to 499 Lumens (Pin Base) - WA       \$0.36       546       11       \$1,384         LEDs - Non-MR Bi-Pin 500 to 999 Lumens (Pin Base) - WA       \$0.51       100       9       \$312         LEDs - Reflectors & Outdoor - 1050 to 1489 Lumens - WA       \$0.24       4,793       2       \$2,015         LEDs - Reflectors & Outdoor - 1490 to 2600 Lumens - WA       \$0.82       403       3       \$840         LEDs - Reflectors & Outdoor - 250 to 1049 Lumens - WA       \$0.20       24,927       1       \$4,542         Manufactured Home - Ductless Heat Pump - eFAF to DHP 9.	Insulation - Wall - Zonal or DHP - R0 to R13 - WA	\$0.03	4,012	45	\$1,654
WA         LEDs - General Purpose & Three-Way - 1490 to 2600 Lumens - WA       \$0.31       13,156       2       \$7,382         WA         LEDs - General Purpose & Three-Way - 250 to 1049 Lumens - WA       \$0.24       76,200       2       \$33,102         LEDs - Globe - 250 to 1049 Lumens - WA       \$0.41       10,285       2       \$7,633         LEDs - MR 250 to 499 Lumens (Pin Base) - WA       \$0.27       200       4       \$171         LEDs - MR 500 to 999 Lumens (Pin Base) - WA       \$0.41       100       3       \$101         LEDs - Non-MR Bi-Pin 250 to 499 Lumens (Pin Base) - WA       \$0.36       546       11       \$1,384         LEDs - Non-MR Bi-Pin 500 to 999 Lumens (Pin Base) - WA       \$0.51       100       9       \$312         LEDs - Reflectors & Outdoor - 1050 to 1489 Lumens - WA       \$0.24       4,793       2       \$2,015         LEDs - Reflectors & Outdoor - 1490 to 2600 Lumens - WA       \$0.82       403       3       \$840         LEDs - Reflectors & Outdoor - 250 to 1049 Lumens - WA       \$0.20       24,927       1       \$4,542         Manufactured Home - Ductless Heat Pump - eFAF to DHP 9.5 and above - WA       \$32.28       22       15       \$6,080         Manufactured Home - Ductless Heat Pump - Zonal to DHP 11.1 to 12.5 - WA       \$50.10	LEDs - Decorative & Mini-Base - 250 to 1049 Lumens - WA	\$0.56	13,775	2	\$13,963
LEDs - General Purpose & Three-Way - 250 to 1049 Lumens - WA \$0.24 76,200 2 \$33,102  LEDs - Globe - 250 to 1049 Lumens - WA \$0.41 10,285 2 \$7,633  LEDs - MR 250 to 499 Lumens (Pin Base) - WA \$0.27 200 4 \$171  LEDs - MR 500 to 999 Lumens (Pin Base) - WA \$0.41 100 3 \$101  LEDs - Non-MR Bi-Pin 250 to 499 Lumens (Pin Base) - WA \$0.36 546 11 \$1,384  LEDs - Non-MR Bi-Pin 250 to 499 Lumens (Pin Base) - WA \$0.51 100 9 \$312  LEDs - Reflectors & Outdoor - 1050 to 1489 Lumens - WA \$0.24 4,793 2 \$2,015  LEDs - Reflectors & Outdoor - 1490 to 2600 Lumens - WA \$0.82 403 3 \$840  LEDs - Reflectors & Outdoor - 250 to 1049 Lumens - WA \$0.20 24,927 1 \$4,542  Manufactured Home - Ductless Heat Pump - eFAF to DHP 9.0 to \$29.62 24 15 \$6,121  9.4 - WA  Manufactured Home - Ductless Heat Pump - eFAF to DHP 9.5 and above - WA  Manufactured Home - Ductless Heat Pump - Zonal to DHP 11.1 to \$50.10 24 15 \$10,354  12.5 - WA  Manufactured Home - Ductless Heat Pump - Zonal to DHP 12.6 \$50.10 12 15 \$5,147		\$0.70	24,100	4	\$55,401
LEDs - Globe - 250 to 1049 Lumens - WA       \$0.41       10,285       2       \$7,633         LEDs - MR 250 to 499 Lumens (Pin Base) - WA       \$0.27       200       4       \$171         LEDs - MR 500 to 999 Lumens (Pin Base) - WA       \$0.41       100       3       \$101         LEDs - Non-MR Bi-Pin 250 to 499 Lumens (Pin Base) - WA       \$0.36       546       11       \$1,384         LEDs - Non-MR Bi-Pin 500 to 999 Lumens (Pin Base) - WA       \$0.51       100       9       \$312         LEDs - Reflectors & Outdoor - 1050 to 1489 Lumens - WA       \$0.24       4,793       2       \$2,015         LEDs - Reflectors & Outdoor - 1490 to 2600 Lumens - WA       \$0.82       403       3       \$840         LEDs - Reflectors & Outdoor - 250 to 1049 Lumens - WA       \$0.20       24,927       1       \$4,542         Manufactured Home - Ductless Heat Pump - eFAF to DHP 9.0 to 9.4 - WA       \$29.62       24       15       \$6,080         above - WA         Manufactured Home - Ductless Heat Pump - Zonal to DHP 11.1 to \$50.10       24       15       \$10,354         12.5 - WA         Manufactured Home - Ductless Heat Pump - Zonal to DHP 12.6       \$50.10       12       15       \$5,147	, ,	\$0.31	13,156	2	\$7,382
LEDs - MR 250 to 499 Lumens (Pin Base) - WA       \$0.27       200       4       \$171         LEDs - MR 500 to 999 Lumens (Pin Base) - WA       \$0.41       100       3       \$101         LEDs - Non-MR Bi-Pin 250 to 499 Lumens (Pin Base) - WA       \$0.36       546       11       \$1,384         LEDs - Non-MR Bi-Pin 500 to 999 Lumens (Pin Base) - WA       \$0.51       100       9       \$312         LEDs - Reflectors & Outdoor - 1050 to 1489 Lumens - WA       \$0.24       4,793       2       \$2,015         LEDs - Reflectors & Outdoor - 1490 to 2600 Lumens - WA       \$0.82       403       3       \$840         LEDs - Reflectors & Outdoor - 250 to 1049 Lumens - WA       \$0.20       24,927       1       \$4,542         Manufactured Home - Ductless Heat Pump - eFAF to DHP 9.0 to       \$29.62       24       15       \$6,121         9.4 - WA         Manufactured Home - Ductless Heat Pump - eFAF to DHP 9.5 and above - WA       \$32.28       22       15       \$6,080         Manufactured Home - Ductless Heat Pump - Zonal to DHP 11.1 to       \$50.10       24       15       \$10,354         12.5 - WA         Manufactured Home - Ductless Heat Pump - Zonal to DHP 12.6       \$50.10       12       15       \$5,147	LEDs - General Purpose & Three-Way - 250 to 1049 Lumens - WA	\$0.24	76,200	2	\$33,102
LEDs - MR 500 to 999 Lumens (Pin Base) - WA       \$0.41       100       3       \$101         LEDs - Non-MR Bi-Pin 250 to 499 Lumens (Pin Base) - WA       \$0.36       546       11       \$1,384         LEDs - Non-MR Bi-Pin 500 to 999 Lumens (Pin Base) - WA       \$0.51       100       9       \$312         LEDs - Reflectors & Outdoor - 1050 to 1489 Lumens - WA       \$0.24       4,793       2       \$2,015         LEDs - Reflectors & Outdoor - 1490 to 2600 Lumens - WA       \$0.82       403       3       \$840         LEDs - Reflectors & Outdoor - 250 to 1049 Lumens - WA       \$0.20       24,927       1       \$4,542         Manufactured Home - Ductless Heat Pump - eFAF to DHP 9.0 to       \$29.62       24       15       \$6,121         9.4 - WA         Manufactured Home - Ductless Heat Pump - eFAF to DHP 9.5 and above - WA       \$32.28       22       15       \$6,080         Manufactured Home - Ductless Heat Pump - Zonal to DHP 11.1 to       \$50.10       24       15       \$10,354         12.5 - WA         Manufactured Home - Ductless Heat Pump - Zonal to DHP 12.6       \$50.10       12       15       \$5,147	LEDs - Globe - 250 to 1049 Lumens - WA	\$0.41	10,285	2	\$7,633
LEDs - Non-MR Bi-Pin 250 to 499 Lumens (Pin Base) - WA       \$0.36       546       11       \$1,384         LEDs - Non-MR Bi-Pin 500 to 999 Lumens (Pin Base) - WA       \$0.51       100       9       \$312         LEDs - Reflectors & Outdoor - 1050 to 1489 Lumens - WA       \$0.24       4,793       2       \$2,015         LEDs - Reflectors & Outdoor - 1490 to 2600 Lumens - WA       \$0.82       403       3       \$840         LEDs - Reflectors & Outdoor - 250 to 1049 Lumens - WA       \$0.20       24,927       1       \$4,542         Manufactured Home - Ductless Heat Pump - eFAF to DHP 9.0 to       \$29.62       24       15       \$6,121         9.4 - WA         Manufactured Home - Ductless Heat Pump - eFAF to DHP 9.5 and above - WA       \$32.28       22       15       \$6,080         Manufactured Home - Ductless Heat Pump - Zonal to DHP 11.1 to       \$50.10       24       15       \$10,354         12.5 - WA         Manufactured Home - Ductless Heat Pump - Zonal to DHP 12.6       \$50.10       12       15       \$5,147	LEDs - MR 250 to 499 Lumens (Pin Base) - WA	\$0.27	200	4	\$171
LEDs - Non-MR Bi-Pin 500 to 999 Lumens (Pin Base) - WA       \$0.51       100       9       \$312         LEDs - Reflectors & Outdoor - 1050 to 1489 Lumens - WA       \$0.24       4,793       2       \$2,015         LEDs - Reflectors & Outdoor - 1490 to 2600 Lumens - WA       \$0.82       403       3       \$840         LEDs - Reflectors & Outdoor - 250 to 1049 Lumens - WA       \$0.20       24,927       1       \$4,542         Manufactured Home - Ductless Heat Pump - eFAF to DHP 9.0 to 9.4 - WA       \$29.62       24       15       \$6,121         9.4 - WA       Manufactured Home - Ductless Heat Pump - eFAF to DHP 9.5 and above - WA       \$32.28       22       15       \$6,080         Above - WA       Manufactured Home - Ductless Heat Pump - Zonal to DHP 11.1 to \$50.10       24       15       \$10,354         12.5 - WA       Manufactured Home - Ductless Heat Pump - Zonal to DHP 12.6       \$50.10       12       15       \$5,147	LEDs - MR 500 to 999 Lumens (Pin Base) - WA	\$0.41	100	3	\$101
LEDs - Reflectors & Outdoor - 1050 to 1489 Lumens - WA       \$0.24       4,793       2       \$2,015         LEDs - Reflectors & Outdoor - 1490 to 2600 Lumens - WA       \$0.82       403       3       \$840         LEDs - Reflectors & Outdoor - 250 to 1049 Lumens - WA       \$0.20       24,927       1       \$4,542         Manufactured Home - Ductless Heat Pump - eFAF to DHP 9.0 to 9.4 - WA       \$29.62       24       15       \$6,121         Manufactured Home - Ductless Heat Pump - eFAF to DHP 9.5 and above - WA       \$32.28       22       15       \$6,080         Manufactured Home - Ductless Heat Pump - Zonal to DHP 11.1 to 12.5 - WA       \$50.10       24       15       \$10,354         Manufactured Home - Ductless Heat Pump - Zonal to DHP 12.6       \$50.10       12       15       \$5,147	LEDs - Non-MR Bi-Pin 250 to 499 Lumens (Pin Base) - WA		546	11	
LEDs - Reflectors & Outdoor - 1490 to 2600 Lumens - WA       \$0.82       403       3       \$840         LEDs - Reflectors & Outdoor - 250 to 1049 Lumens - WA       \$0.20       24,927       1       \$4,542         Manufactured Home - Ductless Heat Pump - eFAF to DHP 9.0 to 9.4 - WA       \$29.62       24       15       \$6,121         Manufactured Home - Ductless Heat Pump - eFAF to DHP 9.5 and above - WA       \$32.28       22       15       \$6,080         Manufactured Home - Ductless Heat Pump - Zonal to DHP 11.1 to 12.5 - WA       \$50.10       24       15       \$10,354         Manufactured Home - Ductless Heat Pump - Zonal to DHP 12.6       \$50.10       12       15       \$5,147	LEDs - Non-MR Bi-Pin 500 to 999 Lumens (Pin Base) - WA	\$0.51	100	9	
LEDs - Reflectors & Outdoor - 250 to 1049 Lumens - WA       \$0.20       24,927       1       \$4,542         Manufactured Home - Ductless Heat Pump - eFAF to DHP 9.0 to 9.4 - WA       \$29.62       24       15       \$6,121         Manufactured Home - Ductless Heat Pump - eFAF to DHP 9.5 and above - WA       \$32.28       22       15       \$6,080         Manufactured Home - Ductless Heat Pump - Zonal to DHP 11.1 to 12.5 - WA       \$50.10       24       15       \$10,354         Manufactured Home - Ductless Heat Pump - Zonal to DHP 12.6       \$50.10       12       15       \$5,147				2	
Manufactured Home - Ductless Heat Pump - eFAF to DHP 9.0 to \$29.62 24 15 \$6,121 9.4 - WA  Manufactured Home - Ductless Heat Pump - eFAF to DHP 9.5 and above - WA  Manufactured Home - Ductless Heat Pump - Zonal to DHP 11.1 to \$50.10 24 15 \$10,354 12.5 - WA  Manufactured Home - Ductless Heat Pump - Zonal to DHP 12.6 \$50.10 12 15 \$5,147				3	
9.4 - WA  Manufactured Home - Ductless Heat Pump - eFAF to DHP 9.5 and \$32.28 22 15 \$6,080 above - WA  Manufactured Home - Ductless Heat Pump - Zonal to DHP 11.1 to \$50.10 24 15 \$10,354 12.5 - WA  Manufactured Home - Ductless Heat Pump - Zonal to DHP 12.6 \$50.10 12 15 \$5,147					
above - WA  Manufactured Home - Ductless Heat Pump - Zonal to DHP 11.1 to \$50.10 24 15 \$10,354  12.5 - WA  Manufactured Home - Ductless Heat Pump - Zonal to DHP 12.6 \$50.10 12 15 \$5,147	•	·	24	15	
12.5 - WAManufactured Home - Ductless Heat Pump - Zonal to DHP 12.6\$50.101215\$5,147	above - WA	\$32.28	22	15	\$6,080
·		\$50.10	24	15	\$10,354
	·	\$50.10	12	15	\$5,147
Manufactured Home - Ductless Heat Pump - Zonal to DHP 9.0 to \$50.10 2 15 \$917 11.0 - WA		\$50.10	2	15	\$917

Measure	Annual Non- Energy Impacts per Measure	Total Installs	Measure Life	Total Present Value NEIs
Manufactured Home - Heat Pump - Conversion to 9.0+ HSPF - Convert FAF w/out CAC - WA	\$35.97	21	18	\$7,148
Manufactured Home - Heat Pump - Conversion to Federal Standard HSPF - Convert FAF w/out CAC - WA	\$35.97	35	18	\$11,913
Manufactured Home - Heat Pump - Conversion with Best Practice Install & Sizing - Convert FAF w/out CAC - WA	\$35.97	8	15	\$2,634
Manufactured Home - Windows - Ufactor > 0.30 to Ufactor <= 0.25 - Electric Resistance - WA	\$0.01	3,000	25	\$329
Manufactured Home - Windows - Ufactor 30 to Ufactor 25 - Electric Resistance - WA	\$0.01	65	25	\$8
Multifamily - Ductless Heat Pump - eFAF to DHP 9.5 and above - WA	\$57.65	42	15	\$20,730
Multifamily - Ductless Heat Pump - Zonal to DHP 11.1 to 12.5 - WA	\$27.38	24	15	\$5,658
Multifamily - Ductless Heat Pump - Zonal to DHP 12.6 and above - WA	\$27.38	0	15	\$0
Multifamily - Ductless Heat Pump - Zonal to DHP 9.0 to 11.0 - WA	\$27.38	44	15	\$10,347
New Manufactured Home - Ecorated - Any Electric - WA	\$17.53	10	42	\$2,381
New Manufactured Home - ENERGY STAR - Any Electric - WA	\$17.28	35	44	\$7,958
Windows - Ufactor 30 to Ufactor 25 - eFAF - WA	\$0.04	626	45	\$344
Windows - Ufactor 30 to Ufactor 25 - Heat Pump - WA	\$0.02	972	45	\$267

Table 18: Wattsmart Business Savings Non-Energy Impacts - PY2020 and PY2021

Measure	Annual Non- Energy Impacts per Measure	Total Installs	Measure Life	Total Present Value NEIs
Water distribution measures-Rotating sprinkler	\$497.20	2	4	\$3,265
Water distribution measures-Impact sprinkler, New or Rebuilt	\$1,984.40	2	4	\$13,032
Water distribution measures-Nozzle	\$145.77	2	4	\$957
Water distribution measures-Gasket for wheel line, hand line, or portable main line	\$225.50	2	5	\$1,793
Water distribution measures-Drain for wheel line, hand line, portable main line, pivot, or linear	\$124.10	2	5	\$987
Water distribution measures-Pipe repair	\$693.00	2	8	\$8,033
Water distribution measures-Wheel line leveler	\$56.40	2	5	\$448
Water distribution measures-Pressure regulator	\$508.50	2	5	\$4,044
Water distribution measures-Low pressure sprinkler replacing worn low pressure sprinkler	\$505.11	2	5	\$4,017
Decorative and Mini-Base_500 to 699 lumens - MID - WA	\$18.29	53	1	\$1,753
Downlight Retrofit Kit_1100 to 1800 lumens - MID - WA	\$17.90	60	2	\$2,803
Downlight Retrofit Kit_450 to 624 lumens - MID - WA	\$9.27	100	2	\$1,653
Downlight Retrofit Kit_625 to 1099 lumens - MID - WA	\$10.88	100	2	\$1,886
Globe_350 to 499 lumens - MID - WA	\$7.23	53	1	\$694
Globe_500 to 574 lumens - MID - WA	\$20.48	53	1	\$1,963
Globe_575 to 649 lumens - MID - WA	\$21.45	50	1	\$1,941

Measure	Annual Non- Energy Impacts per Measure	Total Installs	Measure Life	Total Present Value NEIs
Globe_650 to 1099 lumens - MID - WA	\$19.14	60	1	\$2,070
Pin-base Reflector_21 to 45W equivalent - MID - WA	\$21.68	90	1	\$3,443
Pin-base Reflector_46 to 59W equivalent - MID - WA	\$23.80	87	1	\$3,748
Pin-base Reflector_60 to 80W equivalent - MID - WA	\$35.23	60	1	\$3,820
Reflectors_1100 to 1590 lumens - BR - MID - WA	\$46.47	65	1	\$2,822
Reflectors_1100 to 1590 lumens - PAR - MID - WA	\$16.60	100	1	\$1,494
Reflectors_450 to 624 lumens - BR - MID - WA	\$13.37	53	1	\$663
Reflectors_450 to 624 lumens - PAR - MID - WA	\$7.15	53	1	\$354
Reflectors_625 to 1099 lumens - BR - MID - WA	\$6.78	57	1	\$361
Reflectors_625 to 1099 lumens - PAR - MID - WA	\$7.19	53	1	\$356
T8 TLED Lamp Type A, A/B Dual Mode - MID - Relamp - WA	\$44.65	215	7	\$76,574
HID Replacement Lamp <40 W - MID - WA	\$17.92	6	12	\$858
LED HID Replacement Lamp <40 W - MID - WA	\$7.60	103	6	\$3,498
Pin-base Reflector_20W equivalent - MID - WA	\$1.29	10	1	\$22
Decorative and Mini-Base_300 to 499 lumens - MID - WA	\$1.06	3	1	\$5