

Case No. PAC-E-19-08  
Exhibit No. 7  
Witness: Robert M. Meredith

BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION

ROCKY MOUNTAIN POWER

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Exhibit Accompanying Direct Testimony of Robert M. Meredith

June 2019

Assumptions	
System Size kW	5
System cost per W*	\$7.75
Application fee	\$85.60
System Degradation Rate	0.2%
Annual kWh Usage	19,091
Annual System Output (kWh/kW**)	1,439
Average Bill before Solar (¢/kWh)	11.11
Average Sch 135 Credit (¢/kWh)	12.49
Average Sch 136 Credit (¢/kWh)	8.52
State Tax Rate**	6.928%
Total System Cost	\$13,815.00
1st Year State Tax Deduction***	\$380.88
State Tax Deduction for Years 2-4***	\$190.44
31% Federal Tax Credit	\$4,150.50

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20	
<b>Present Payback</b>																					
<b>South Facing (180°)</b>																					
Gross Annual kWh Usage	19,091	19,091	19,091	19,091	19,091	19,091	19,091	19,091	19,091	19,091	19,091	19,091	19,091	19,091	19,091	19,091	19,091	19,091	19,091	19,091	
Annual Bill	\$2,120	\$2,120	\$2,120	\$2,120	\$2,120	\$2,120	\$2,120	\$2,120	\$2,120	\$2,120	\$2,120	\$2,120	\$2,120	\$2,120	\$2,120	\$2,120	\$2,120	\$2,120	\$2,120	\$2,120	
Generated kWh	7,105	7,137	7,080	7,034	6,968	6,912	6,856	6,802	6,747	6,693	6,640	6,587	6,534	6,482	6,430	6,378	6,327	6,277	6,226	6,177	
Generation Value	(\$899)	(\$891)	(\$884)	(\$877)	(\$870)	(\$863)	(\$856)	(\$849)	(\$843)	(\$836)	(\$829)	(\$823)	(\$816)	(\$809)	(\$803)	(\$797)	(\$790)	(\$784)	(\$778)	(\$771)	
Net Bill	\$1,222	\$1,229	\$1,236	\$1,243	\$1,250	\$1,257	\$1,264	\$1,271	\$1,277	\$1,284	\$1,291	\$1,298	\$1,304	\$1,311	\$1,317	\$1,324	\$1,330	\$1,336	\$1,342	\$1,349	
Cumulative Savings	(\$899)	(\$1,790)	(\$2,674)	(\$3,551)	(\$4,421)	(\$5,285)	(\$6,141)	(\$6,990)	(\$7,833)	(\$8,669)	(\$9,498)	(\$10,321)	(\$11,137)	(\$11,946)	(\$12,749)	(\$13,546)	(\$14,336)	(\$15,120)	(\$15,897)	(\$16,669)	
System cost pay down	(\$9,304)	(\$8,405)	(\$7,133)	(\$6,088)	(\$4,991)	(\$3,930)	(\$2,211)	(\$1,361)	(\$518)	\$317	\$1,147	\$1,969	\$2,785	\$3,595	\$4,398	\$5,194	\$5,984	\$6,768	\$7,546	\$8,317	
<b>Payback (years)</b>	<b>9.62</b>																				
<b>Proposed Payback</b>																					
<b>South Facing (180°)</b>																					
Gross Annual kWh Usage	19,091	19,091	19,091	19,091	19,091	19,091	19,091	19,091	19,091	19,091	19,091	19,091	19,091	19,091	19,091	19,091	19,091	19,091	19,091	19,091	
Annual Bill	\$2,120	\$2,120	\$2,120	\$2,120	\$2,120	\$2,120	\$2,120	\$2,120	\$2,120	\$2,120	\$2,120	\$2,120	\$2,120	\$2,120	\$2,120	\$2,120	\$2,120	\$2,120	\$2,120	\$2,120	
Generated kWh	7,195.00	7,137.44	7,080.34	7,023.70	6,967.51	6,911.77	6,856.47	6,801.62	6,747.21	6,693.23	6,639.69	6,586.57	6,533.88	6,481.60	6,429.75	6,378.31	6,327.29	6,276.67	6,226.46	6,176.64	
Generation Value	(\$613)	(\$608)	(\$603)	(\$598)	(\$594)	(\$589)	(\$584)	(\$579)	(\$575)	(\$570)	(\$566)	(\$561)	(\$557)	(\$552)	(\$548)	(\$543)	(\$539)	(\$535)	(\$530)	(\$526)	
Net Bill	\$1,507	\$1,512	\$1,517	\$1,522	\$1,526	\$1,531	\$1,536	\$1,541	\$1,545	\$1,550	\$1,554	\$1,559	\$1,563	\$1,568	\$1,572	\$1,577	\$1,581	\$1,585	\$1,590	\$1,594	
Cumulative Savings	(\$613)	(\$1,221)	(\$1,824)	(\$2,423)	(\$3,016)	(\$3,605)	(\$4,189)	(\$4,769)	(\$5,344)	(\$5,914)	(\$6,480)	(\$7,041)	(\$7,597)	(\$8,150)	(\$8,697)	(\$9,241)	(\$9,780)	(\$10,315)	(\$10,845)	(\$11,371)	
System cost pay down	(\$9,304)	(\$8,691)	(\$7,702)	(\$6,908)	(\$6,119)	(\$5,335)	(\$4,746)	(\$4,162)	(\$3,583)	(\$3,008)	(\$1,872)	(\$1,311)	(\$74)	(\$202)	\$346	\$889	\$1,429	\$1,963	\$2,494	\$3,020	
<b>Payback (years)</b>	<b>14.37</b>																				

**Footnotes**  
 \* - See page 16 of the Private Generation Long-Term Resource Assessment Prepared for PacifiCorp by Navigant Consulting dated August 15, 2018  
 \*\* - 6.928% state income tax rate for 2018 based upon taxable income over \$11,279. See <https://tax.idaho.gov/i-1110.cfm>  
 \*\*\* - The state of Idaho has a deduction for 40% of the system's value in the year of installation with 20% in the following three years. See <http://programs.destrusa.org/system/program/detail/137>