

Net metering ratepayer impacts, NorthWestern Energy customers, 2014

Benefits and Costs	Amount
Benefits	
Exported solar energy value at 2014 Mid-C average [exported solar energy (kWh) x \$0.038/kWh]	\$48,821
Exported wind/hydro energy value at 2014 Mid-C average [exported wind/hydro energy (kWh) x \$0.038/kWh]	\$9,063
Avoided T&D line losses, residential customers. [Line loss rate (8.5%) x residential production behind the meter x residential retail electricity rate]	\$30,021
Avoided T&D line losses, commercial customers. [Line loss rate (7.5%) x total commercial production behind the meter x commercial retail electricity rate]	\$16,758
Unclaimed BPA residential exchange credit, 2014 (NWE estimate)	\$25,668
Excess net metering production sacrificed to utility, 2014-2015 (provided by NWE)	\$20,543
Avoided hazardous and criteria air pollutant control costs	<i>not quantified</i>
Avoided transmission and distribution system capacity, operations and maintenance	<i>not quantified</i>
Avoided load following, regulation and frequency response	<i>not quantified</i>
Avoided power plant operations and maintenance costs	<i>not quantified</i>
Avoided fuel price hedging costs	<i>not quantified</i>
Avoided generation capacity investments or purchases	<i>not quantified</i>
Avoided renewable energy standard compliance costs	<i>not quantified</i>
Costs	
Lost revenue due to net metering (fixed T&D and supply costs, NWE 2013-2014 tracker year data)	(\$110,000)
Integration costs. [\$0.40/MWh x total production]	(\$2,683)
Totals	
Total ratepayer benefits	\$150,874
Total ratepayer costs	(\$112,683)
Net ratepayer impact	\$38,191

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Submitted by the Montana Renewable Energy Association

Energy and Telecommunications Interim Committee, September 11, 2015