

Rocky Mountain Power
Exhibit RMP___(RMM-5)
Docket No. 16-035-36
Witness: Robert M. Meredith

BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF UTAH

ROCKY MOUNTAIN POWER

Exhibit Accompanying Direct Testimony of Robert M. Meredith

Incremental Cost to Fuel Comparison

January 2017

Rocky Mountain Power Cost to "Fuel" Plug-In Electric Vehicle under Current and Proposed EV TOU Pilot Rates

	Present		Proposed	
	Residential Sch 1	Time-of-Day Sch 2	EV TOU Pilot Option 1	EV TOU Pilot Option 2
Gasoline				
Incremental Internal Combustion Engine (ICE) Vehicle Fuel Cost	\$71.52			
Incremental Plug-In Electric Vehicle (PEV) "Fuel" Cost	\$41.13	\$38.66	\$24.63	\$12.34
Savings from Fueling with Gasoline	\$30.39	\$32.86	\$46.89	\$59.18

Assumptions

Average Monthly Usage (not including PEV) 698
 PEV kWh (Off-Peak) 347
 Average Miles per Year¹ 13,884
 per Month 1,157
 Price of gas per gallon² \$2.250
 PEV Fuel Efficiency (kWh per Mile)³ 0.3
 ICE fuel efficiency (mpg)⁴ 36.4

¹U.S. Department of Transportation Average Annual Miles per Vehicle for the year 2000. See: <http://www.fhwa.dot.gov/ohim/ohh00/ohh2p11.htm>

²Utah Average Gas Price as of January 24, 2017. See: <http://gasprices.aaa.com/?state=UT>

³EPA rating for 2015 Nissan Leaf is 30 kWh per 100 miles. See: <http://www.pluginamerica.org/drivers-seat/how-much-does-it-cost-charge-electric-car>

⁴New passenger vehicle fuel efficiency for 2014. See: http://www.rita.dot.gov/bts/sites/rita.dot.gov/bts/files/publications/national_transportation_statistics/html/table_04_23.html