

High Efficiency HP: Cold Climate Heat Pump/Geothermal, 2024 CPCN/Tariff filing

Distribution System Benefits		Distribution System Costs	
Power Bill Declines	\$ 10,026,998	Revenue Declines	(\$8,882,012)
Rebates From EK	\$5,888,144	Administrative Costs	(\$849,252)
		Rebates Paid To Consumers	(\$4,718,064)
Total Benefits	\$15,915,142	Total Costs	(\$14,449,328)
Benefit / Cost Ratio: 1.10			

Participant Benefits		Participant Costs	
Electric Bill Declines	\$3,601,515	Up Front Investment	(\$7,479,745)
Rebates From Distribution System	\$ 2,937,842		
Reductions in O&M costs	\$0		
Tax Credits	\$5,875,683		
Total Benefits	\$12,415,040	Total Costs	(\$7,479,745)
Benefit / Cost Ratio: 1.66			

Total Resource Benefits		Total Resource Costs	
Avoided Energy Costs	\$5,354,387	Up Front Customer Investment	(\$12,012,192)
Avoided Gen Capacity Costs	\$16,016,070	Distribution System Admin. Costs	(\$849,252)
Avoided Transmission Expense	\$7,014,652	EK Administrative Costs	(\$97,537)
Reduced Customer O&M costs	\$0		
Tax Credits	\$9,436,129		
Total Benefits	\$37,821,237	Total Costs	(\$12,958,981)
Benefit / Cost Ratio: 2.92			

EK Benefits		EK Costs	
Avoided Energy Costs	\$5,354,387	Decrease In Revenue	(\$10,026,998)
Avoided Gen Capacity Costs	\$16,016,070	Rebates Paid	(\$5,888,144)
Avoided Transmission Expense	\$7,014,652	Administrative Costs	(\$97,537)
Total Benefits	\$28,385,108	Total Costs	(\$16,012,679)
Benefit / Cost Ratio: 1.77			

Utility Test Benefits		Utility Test Costs	
Avoided Energy Costs	\$5,354,387	Rebates Paid to Participants	(\$4,718,064)
Avoided Gen Capacity Costs	\$16,016,070	Utility Admin Costs	(\$946,789)
Avoided Transmission Expense	\$7,014,652		
Environmental Externalities	\$0		
Total Benefits	\$28,385,108	Total Costs	(\$5,664,853)
Benefit / Cost Ratio: 5.01			

Combined RIM:			
Total Benefits	\$28,385,108	Total Costs	(\$14,546,865)
Benefit / Cost Ratio: 1.95			