

Avista DC Fast Charge Rate Projections

Using Various Utilization and Capital Contribution Scenarios

KEY ASSUMPTIONS THAT SHOULD BE STUDIED IN THE PILOT

Avista General Service Schedule 11	
Base Monthly	\$ 18.00
Energy, per kWh	\$ 0.1129 <= 3650 kWh
	\$ 0.0830 > 3650 kWh
Demand (monthly highest 15 minutes)	\$ - <=20 kw
per kW	\$ 6.00 >21 and <=50 kw

Monthly cost 50 kW DC Fast station	Base	\$ 18.00
	Demand	\$ 180.00

	1	5	10	15	
Number of Charging Sessions / Day	1	5	10	15	
Sessions / Month	30	150	300	450	
Avg Energy / Session, kWh (80% of 24 kWh battery pack)	19.2				
Energy Used / Month, kWh	576	2,880	5,760	8,640	
Energy Cost	\$ 65.05	\$ 325.24	\$ 587.28	\$ 826.26	
Total Monthly Energy Bill	\$ 263.05	\$ 523.24	\$ 785.28	\$ 1,024.26	
Avg. Cost / Session	\$ 8.77	\$ 3.49	\$ 2.62	\$ 2.28	
Avg Cost / kWh	\$ 0.46	\$ 0.18	\$ 0.14	\$ 0.12	
Average Session Power Rate, kW	40				
Average Time / Session, minutes	28.8				
Avg. Cost / Minute @ Average Power Rate	Energy Only	\$ 0.30	\$ 0.12	\$ 0.09	\$ 0.08

Sessions / Year	Per Session	360	1,800	3,600	5,400	
Capital Cost Contribution / Session and Annual Recovery	\$ 1.00	\$ 360	\$ 1,800	\$ 3,600	\$ 5,400	Annual
	\$ 2.00	\$ 720	\$ 3,600	\$ 7,200	\$ 10,800	Annual
	\$ 3.00	\$ 1,080	\$ 5,400	\$ 10,800	\$ 16,200	Annual
	\$ 4.00	\$ 1,440	\$ 7,200	\$ 14,400	\$ 21,600	Annual
	\$ 5.00	\$ 1,800	\$ 9,000	\$ 18,000	\$ 27,000	Annual

Average Cost / Minute w Contribution to Capital & Station Ops Costs

Energy + \$1/Session for Capital & Ops	\$ 1.00	\$ 0.34	\$ 0.16	\$ 0.13	\$ 0.11
Energy + \$2/Session for Capital & Ops	\$ 2.00	\$ 0.37	\$ 0.19	\$ 0.16	\$ 0.15
Energy + \$3/Session for Capital & Ops	\$ 3.00	\$ 0.41	\$ 0.23	\$ 0.20	\$ 0.18
Energy + \$4/Session for Capital & Ops	\$ 4.00	\$ 0.44	\$ 0.26	\$ 0.23	\$ 0.22
Energy + \$5/Session for Capital & Ops	\$ 5.00	\$ 0.48	\$ 0.29	\$ 0.26	\$ 0.25

DC Fast Charging Price Per Minute Under Various Utilization & Capital Contribution Scenarios

