

Sheet1

Cost(min/max) derived from
<https://www.youtube.com/watch?v=IEQoKTjsRMo>

Cost(VW) estimates based on SWAG for a 2006 VW Beetle

kia niro ev price
<https://www.tomsguide.com/reviews/kia-ev6>
<https://www.kia.com/us/en/ev6>

Federal Incentive \$7,500

Component	Cost(min)	Cost(max)	Cost(VW)	Niro EV 6
Inflation Bump	1.2	1.2	1	1
Safety Factor	1.15	1.15	1	1
Motorw-w/o Controller	\$4,600	\$4,600	\$6,348	
Adapter/Coupler	\$825	\$4,600	\$1,139	
Motor Mounts	\$100	\$100	\$138	
Cooling System	\$445	\$445	\$614	
Throttle	\$100	\$179	\$138	
DC/DC Converter	\$230	\$460	\$317	
Service Disconnect	\$100	\$100	\$138	
Battery Containment	\$100	\$500	\$138	
Battery Charger	\$729	\$1,600	\$1,006	
Charge Port	\$50	\$150	\$69	
Instrumentation	\$100	\$650	\$138	
Fuses	\$60	\$180	\$83	
Wire (HV/AC, 12VDC)	\$120	\$120	\$166	
Power Brakes	\$350	\$350	\$483	
Power Steering	\$350	\$1,505	\$483	
Heater	\$600	\$600	\$828	
AC for Psngr	\$0	\$1,200	\$0	
Battery Pack/Cells	\$5,990	\$12,150	\$16,767	
Misc(Sml Gauge wire, Heat shi	\$2,000	\$3,000	\$2,760	
Subtotal	\$16,849	\$32,489	\$31,752	\$42,460 Darcars Kia
Inflation Bump	\$20,219	\$38,987	\$31,752	
Safety Factor	\$23,252	\$44,835	\$31,752	
VW New Beetle Low	\$5,000		\$36,752	
Custom (min)			\$28,252	
Custom (max)			\$49,835	
VW New Beetle High	\$8,000		\$39,752	
Custom (min)			\$31,252	
Custom (max)			\$52,835	
Niro EV 6				\$42,460
Niro EV6 w/ Fed Incentive				\$34,960
Niro EV EX Range EPA	239			Kia
Niro EV EX Range Test Rpt 1	285			
Niro EV EX Range Test Rpt 2	310			

Sheet1

Curb Weight as is				3016	3854
BatteryCapacity				NA	64.8
FuelTank gallons				14	NA
		Cost/Unit Min	Cost/Unit Max	\$ /mile	
Mile/KWHr min	3	\$0.10	\$0.25	\$0.03 min	\$0.08
Mile/KWHr max	3.5			\$0.03 max	\$0.07
Battery KWHr capacity					
New Beetle Miles/Gal (Worst)	39	\$5.50	\$11.00	\$0.14 Today Worst	\$0.28 Future Worst
New Beetle Miles/Gal (Best)	50			\$0.11 Today Best	\$0.22 Future Best