

Diesel	Generator Size	Installation Cost (USD/kW)	Operational Cost (USD/kWh)		REF	1	4			
	Small (10–50 kW)	300–450	0.12–0.24			2	5			
	Medium (50–200 kW)	200–300	0.10–0.20			3	6			
	Large (200–500 kW)	150–250	0.08–0.18							
	Very Large (500+ kW)	100–200	0.08–0.15							
BESS	LFP	578	0,2312			IRENA				
	LTO	1050	0,105							
	NCA	352	0,352							
	NMC/LMO	420	0,21							
Charging Tec	Power Level	Estimated Installation Cost (USD)	Manufacturer/Technology Name	Installation Re	Estimated O&	O&M Cost Re	References			
Level 1 Charg	120V AC, 1.4–1.9 kW	300–600	ClipperCreek, Bosch, Siemens	U.S. Departm	50–200 annu	U.S. DOE, Ind	U.S. Department of Energy , ClipperCreek			
Level 2 Charg	240V AC, 7–19 kW	500–2,000	ChargePoint, Tesla Wall Connector, Ju	ChargePoint,	100–500 annu	U.S. DOE, Ch	ChargePoint , Tesla			
DC Fast Char	50 kW	10,000–40,000	ABB, EVgo, Electrify America	ABB, EVgo	1,000–3,000	U.S. DOE, AB	ABB , EVgo			
DC Fast Char	150 kW	50,000–100,000	Tritium, Tesla Supercharger, ChargeP	Tritium, Tesla	2,000–5,000	Tesla, Tritium	Tritium , Tesla			
Ultra-Fast Ch	350 kW	100,000–250,000	Ionity, Electrify America, Porsche	Ionity, Electri	3,000–7,000	Ionity, Electri	Ionity , Electrify America			
Wireless Cha	7–22 kW	2,000–10,000	WiTricity, Plugless, HEVO	WiTricity, HE	500–1,500 an	WiTricity, HE	WiTricity , HEVO			
Solar-Powere	Varies (3–22 kW)	10,000–50,000+	Enphase, SolarEdge, Tesla Powerwall	Enphase, Tes	1,000–3,000	Enphase, Tes	Enphase , Tesla			
Solar PV	Instalation	824 (Brazil) 1085 (USA) 628 (China)	48	12						
	Instalation		Operational cost (charge and discharge degrading of battery multiplied by installation cost)				IRENA 2021	(CHECK FOR 2023 REPORT)		