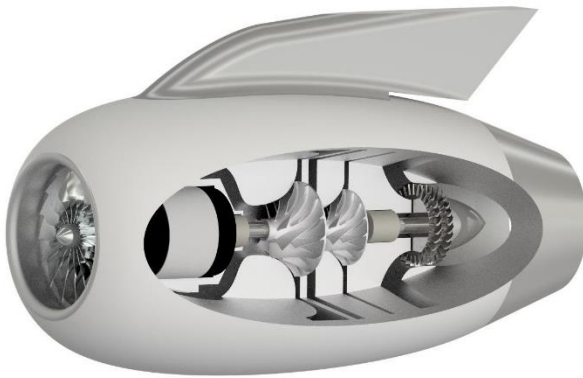


SuperCharGen - Super Fast Vehicle Charging Station

SuperCharGen concept is a simple, robust and fast deployable solution to the growing power demand required by about 9 million Electric Vehicles in 2030. SuperCharGen is a grid-independent super-fast charging micro gas turbine generator that is running on natural gas, diesel and even hydrogen (as the next environmentally friendly fuel to come), and produces electricity at efficiencies higher than the grid level.

SuperCharGen:

- 1) Decouples the power demand burden of EVs from the electricity generation and distribution network.
- 2) Provides instant power to electric cars at charging stations, with a 600 kW prime mover capable of charging two Nissan Leafs in 5 minutes. Therefore, reducing the charging period for a car to the same time required to fill up a petrol or diesel tank (about 5 min).
- 3) Supports the grid at peak demand times with low cost generating capacity



Specifications		Max	Min	
Performance	Net Electrical Power	600	50	kW
	Total Efficiency	85	37	%
	Rotor Speed	45,000	20,000	RPM
Fuel	Natural Gas - Diesel - Hydrogen			
Maintenance	Service Interval	1		Year
	Overhaul Interval	100,000		Hours
Installation	Size	3		m ³
	Weight	200		Kg
	EV Charging Output	DC, AC		