



Samad Power Ltd 

Does it make **sense** to burn any fuel  
just to heat our homes?

- Heat decarbonisation
- Increasing electricity demand
- Rising energy bills
- Micro CHP is low hanging fruit **BUT** with low cost



CURRENT LANDSCAPE

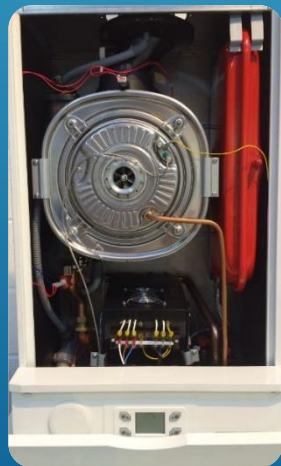
## Turbo Green Boiler



- ▶ **Application:** Commercial m-CHP
- ▶ **Boiler Type:** System & Regular
- ▶ **Power output:** 2.9 kWe , 17 kW<sub>th</sub>
- ▶ **Fuel Type:** Hydrogen, Natural Gas
- ▶ **Target Price:** £ 2,500
- ▶ **Market Entry:** Q4 2019
- ▶ **IP:** 2 Granted UK Patents
- ▶ **TRL:** 8 - Active Commissioning

- Oil Bearings
- Centrifugal Turbine
- External Heat Exchanger

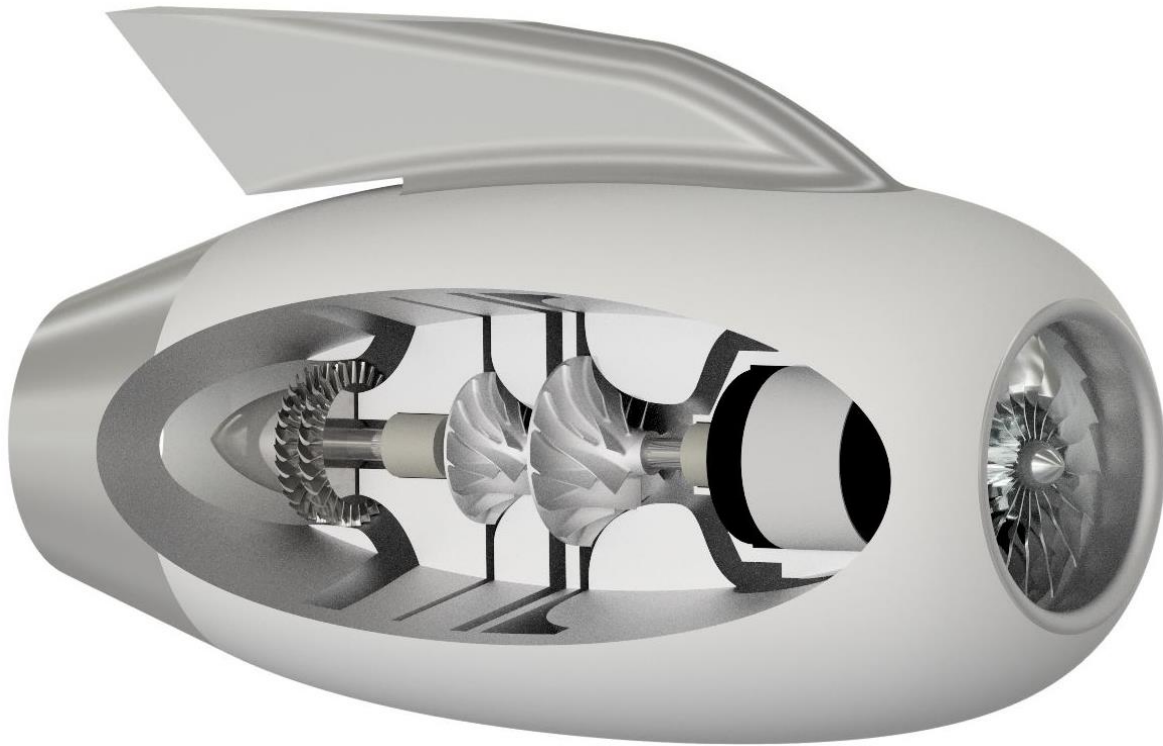
## TwinGen



- ▶ **Application:** Domestic m-CHP
- ▶ **Boiler Type:** Combination
- ▶ **Power output:** 2 kWe , 10 kW<sub>th</sub>
- ▶ **Fuel Type:** Hydrogen, Natural Gas
- ▶ **Target Price:** £ 2,000
- ▶ **Market Entry:** Q4 2021
- ▶ **IP:** 1 Filed International Patent and 4 Pending Regional Patents
- ▶ **TRL:** 5 - Pilot Scale

- Foil Air Bearing
- Axial Turbine
- Integrated Heat Exchanger

# SuperCharGen – Grid Independent Ultra Fast, Clean EV Charging Station



**Application:** EV's Super-Fast Charging Unit

**Engine:** Micro Gas Turbine

**Configuration:** Single Shaft Intercooled-Recuperated

**Bearing type:** Foil Bearing

**Electric power:** 600 kW

**Heat power:** 1700 kW

**Charging time:** <5 min

**Fuel:** Hydrogen

**Target price:** £500k

**TRL: 3 - Proof of Concept**



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# SOLUTIONS

# THANKS FOR YOUR ATTENTION ANY QUESTIONS?

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