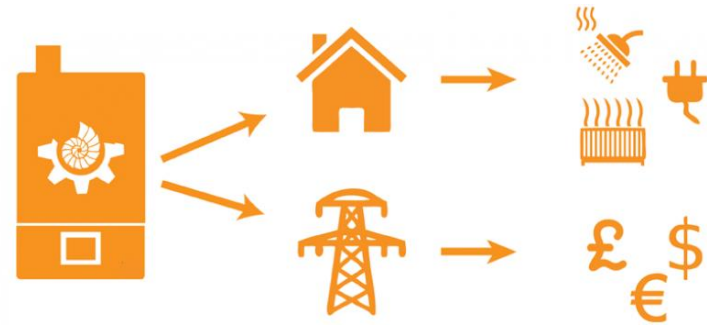


## Business proposition

A gas burning boiler that provides heat and electricity of the household



### Proposition

- £5.0 million investment for certification, field trial and commercialization
- 7 to 10 fold ROI within 5 years

### *Benefits to domestic consumers*

- 25% higher energy efficiency
- **£800** of annual financial saving for the end user
- Up to 2 tonnes of annual CO2 reduction



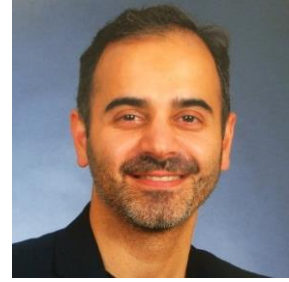
**Samad Power** Ltd

# Team

## *Executive management:*

CEO: Dr Seyed M Mohseni

*Serial entrepreneur with over 20 years of successful track record*



FD: Nayab Haider

*Ex KPMG accountant with 40 years of relevant experience*

Technical team: Group of 6 scientist and engineers at Phd level

*More than 100 years of collective industrial experience in Energy, power generation.*

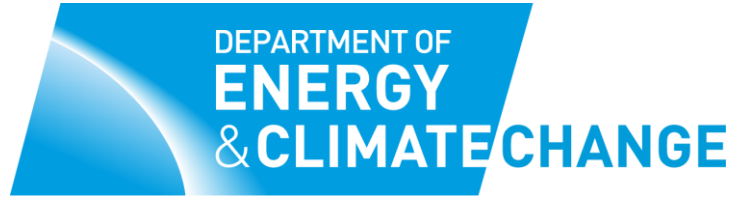


Project supporters and partners:



**British Gas**

**Honeywell**



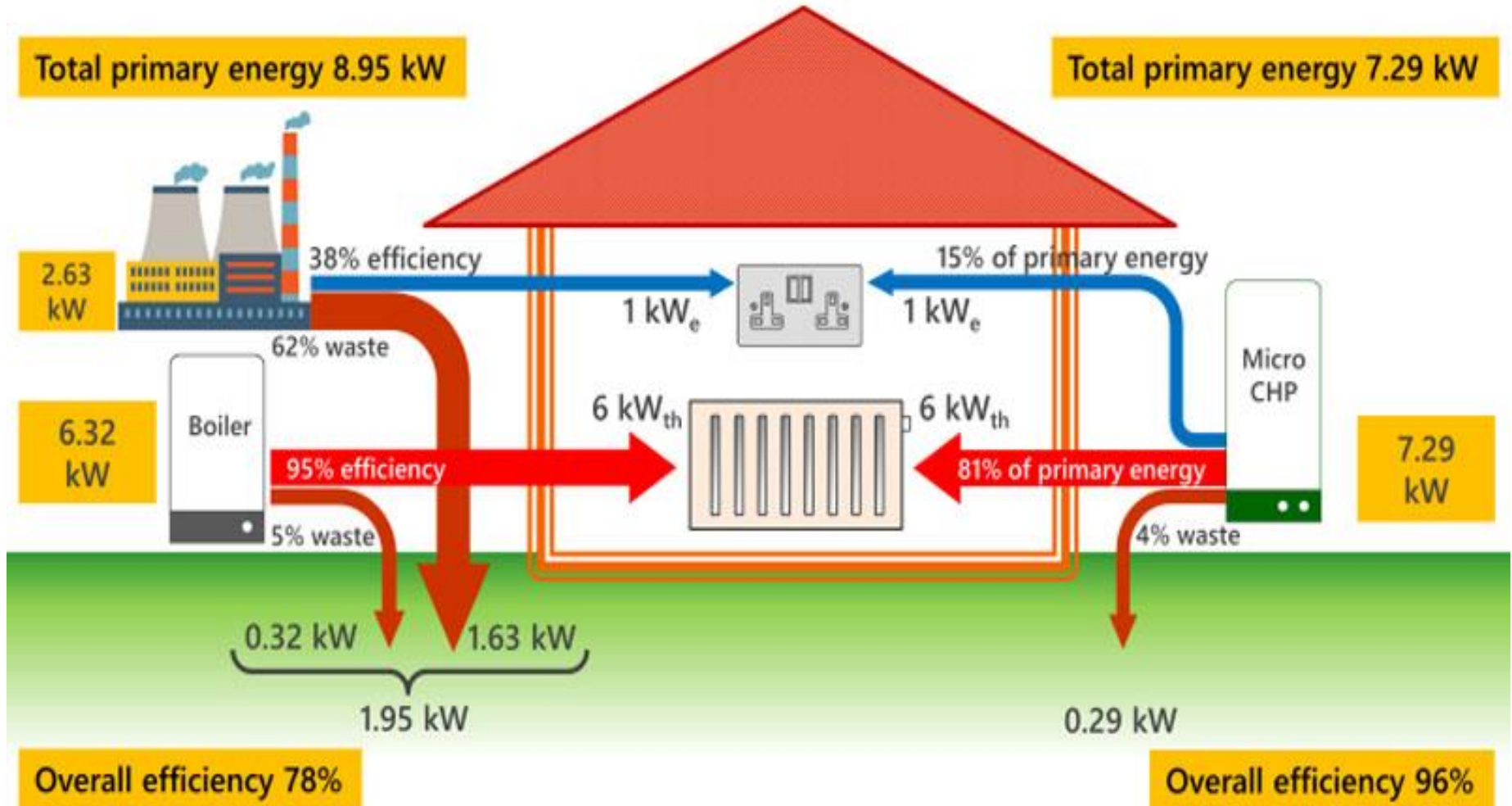
*Cranfield*  
UNIVERSITY



**BAXI**

**JABIL**

# What is micro CHP?

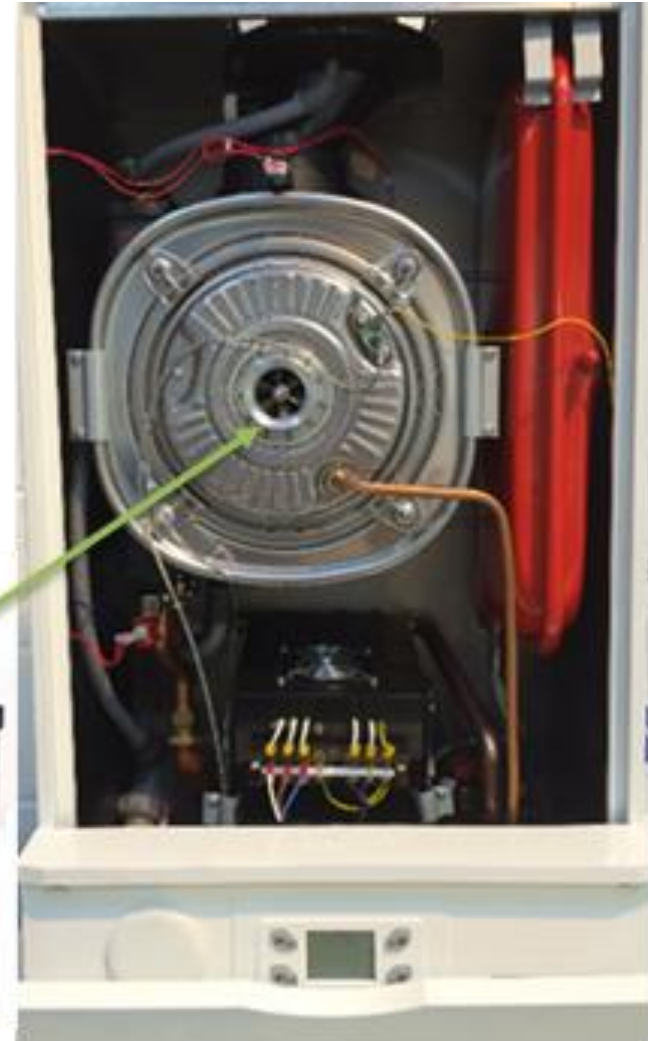




## Product specification

- Electricity: 2000 Watt
- Heat: 18000 Watt
- Gas turbines have been used since 1930
- Patented technology
- Only 1 moving assembly
- Multi fuel
- Robust and relatively lower weight
- 50% of the cost of competition

## TwinGen



World's most compact micro gas turbine incorporated inside an existing gas boiler

## Market opportunity

- Addressable EU market size around 2m boilers a year or £5bn.
- Segmented addressable world market is £10bn.

### *Main players:*

Worcester Bosch, Vailant, Ferroli, Ideal, Baxi, KD Navien, Viessmann & Buderus etc

### *Routes to market:*

1. Supply of MGT to the boiler OEMs
2. Energy utility companies (Boiler for free)

*Business model:* **Samad Powered**



*"The Samad product concept is compelling, a potential 'golden nugget' which 'could' change the CHP & central heating/energy landscape dramatically"*

Sean Green, CHP product manager, Baxi

# Commercial opportunity

Year	2017	2018	2019	2020	2021
TGB unit sale price (MGT to OEM)	£0	£4,500	£2,500	£1,500	£1,350
TwinGen Sale price (MGT to OEMs)	£0	£35,000	£5,000	£1,800	£1,200
Volume of TGB sale	20	500	2500	10000	20000
Volume of TwinGen sale	0	5	100	10000	50000
Revenue	£0	£2,425,000	£6,750,000	£33,000,000	£87,000,000
Cost of sale	£886,736	£2,184,733	£5,650,721	£26,916,564	£49,836,546
TwinGen Development expenses	£250,000	£350,000	£250,000		
Grant			£0	£0	£0
Gross Profit	£1,136,736-	£109,733-	£849,279	£6,083,437	£37,163,454
Overheads	£792,315	£792,315	£792,315	£1,188,473	£1,584,630
Net profit	£1,929,051-	£902,048-	£56,964	£4,894,964	£35,578,824

## Propositions: Equity investment in Samad Power

- £5.0 million investment for certification, field trial and commercialization
- 7 to 10 fold return on investment in 5 years

Thanks for your attention  
Any Question?

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