

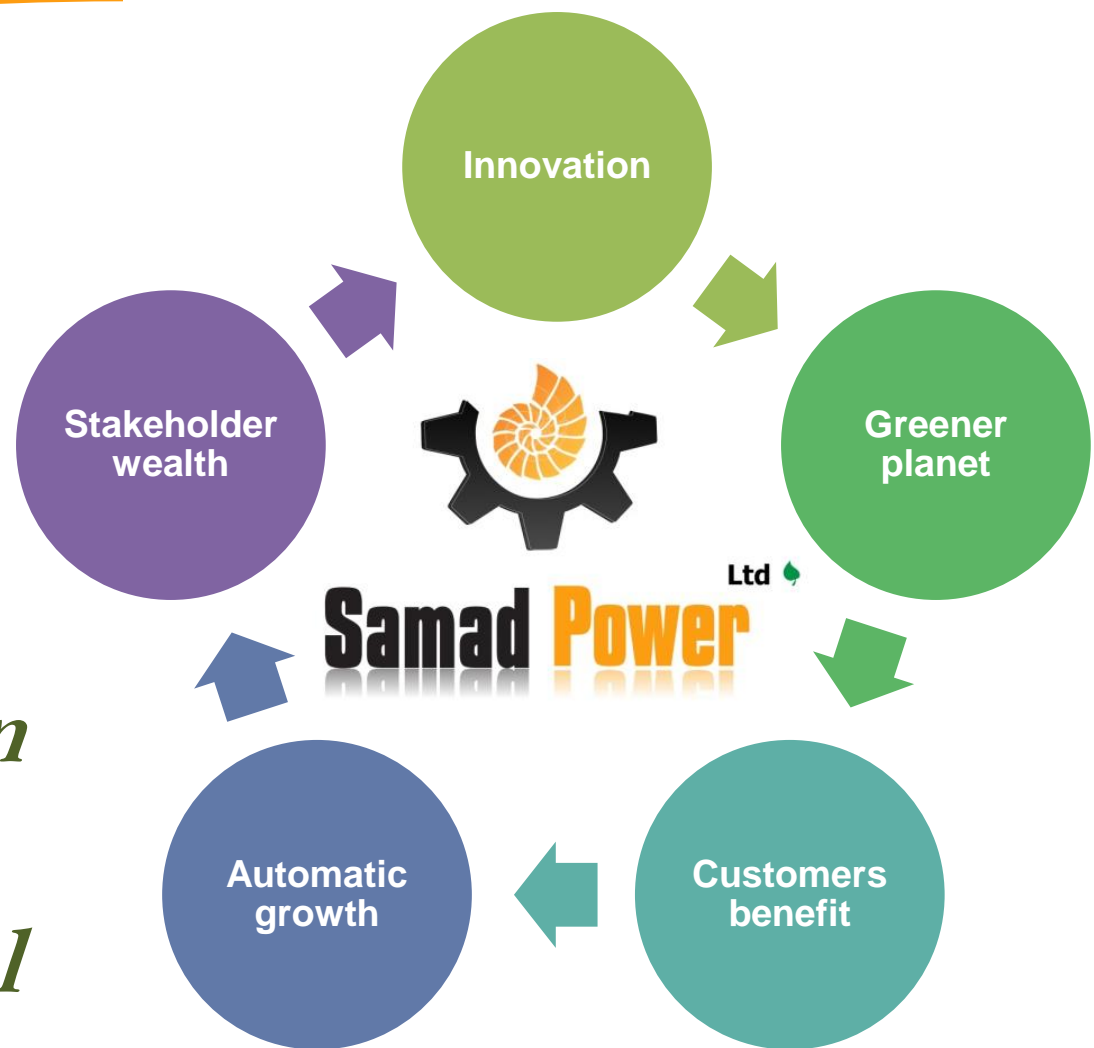
Turbo Green Boiler (TGB)

Presented by: Dr. Esmail Najafi

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Strategic green innovation to create financial gains for stakeholders



Business proposition

Key opportunities

- Change of energy environment in global level
- Make a significant contribution towards the reduction of carbon emissions
- The Electricity Market Reform, the Heat Strategy and the development of a smarter grid, are designed to replace current infrastructure

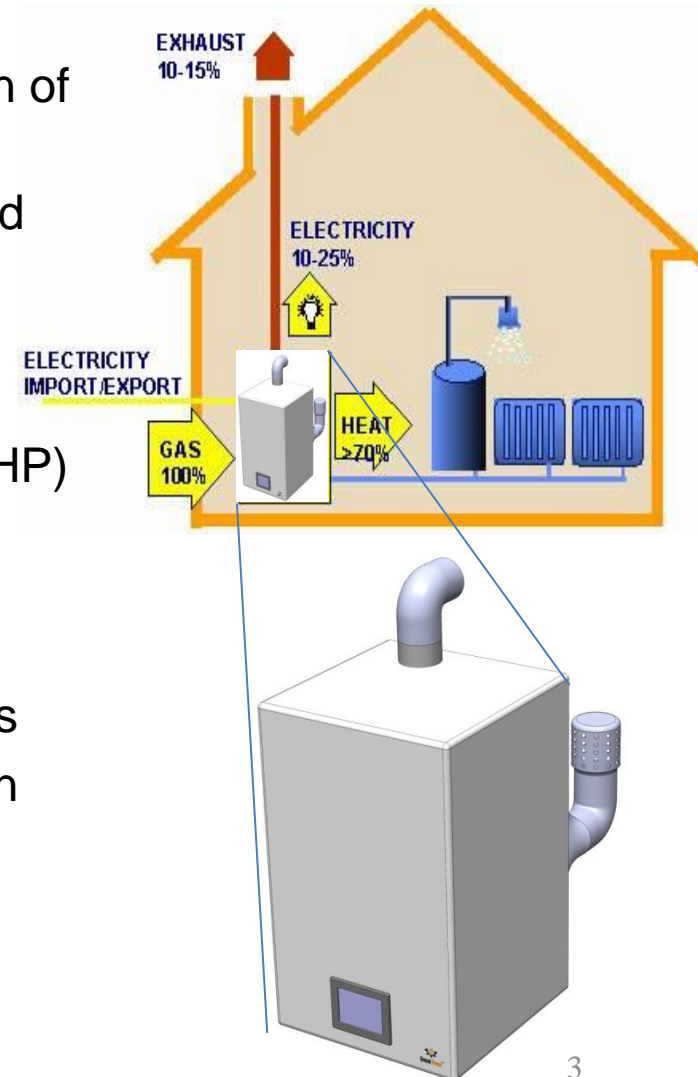
Solution

- An ultra high efficient combined heat and power (CHP) domestic boiler

Benefits to domestic consumers

(The results for an average UK household)

- 25% higher energy efficiency than conventional units
- Average of **£800** of revenue generation via saving in energy bills and FIT
- Up to 2 tonnes of annual CO2 reduction



Team

Executive management:

- CEO: Dr Seyed Mohseni

Serial entrepreneur with over 15 years of successful track record

- CFO: Nayab Haider

Ex KPMG accountant with 40 years of relevant experience

- CTO: Dr Esmail Najafi

Managed technical project in automotive and aerospace sector for last 7 years

- Commercial manger: Simon Osborne

Over 30 years of marketing and sales experience in boiler industry

Advisors:

6 industrial and academic consultants

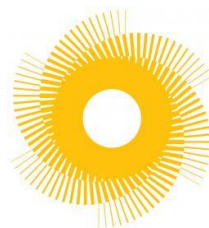
Partners:

- Close collaboration projects with Top UK universities
- Strategic partnership with Billion dollar OEMs and Industry players

Supporters:

A number of Angel investors and Grants through governments bodies

Technology Strategy Board
Driving Innovation

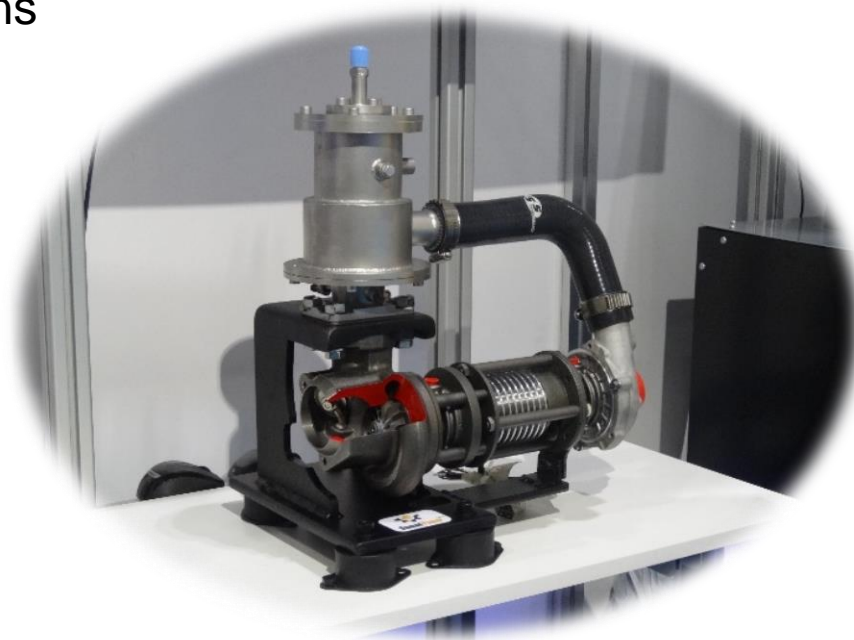


ERDF
low carbon economic growth
in the East of England



Technology

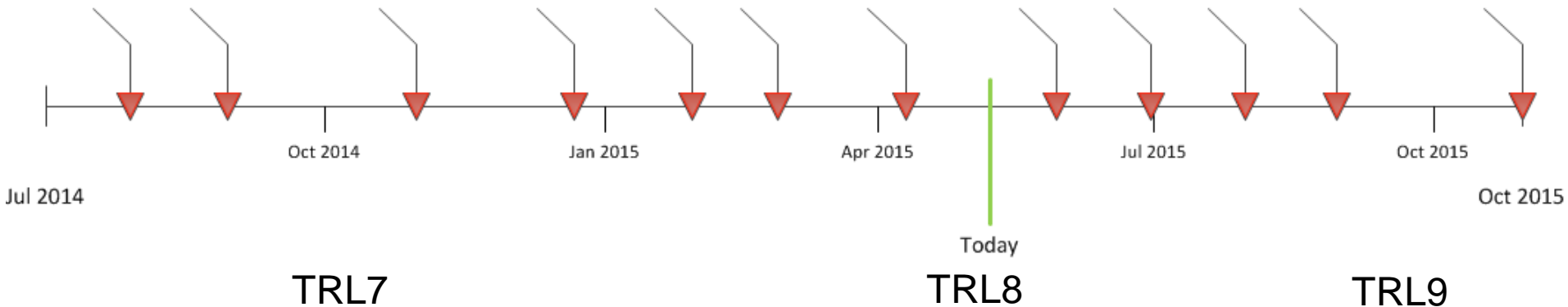
- A Micro turbine CHP boiler has been developed to generate 2 kW of electricity and 12 kW of heat.
- Gas turbines have been used since 1930
- Very reliable & long life: only 1 moving assembly
- Multi fuel such as Natural Gas, Bio Gas, LPG, Heating Oil
- Turbo machineries are produced in millions
- Low maintenance costs
- Highest power density
- Relative low weight
- Relative low noise level
- Low costs, very reliable





Samad Power Ltd

Progress Based on the Plan



TRL 7 – Integrated Pilot System Demonstrated

Operational Prototype. Near or at planned operational system, requiring demonstration of an actual system prototype in an operational environment.

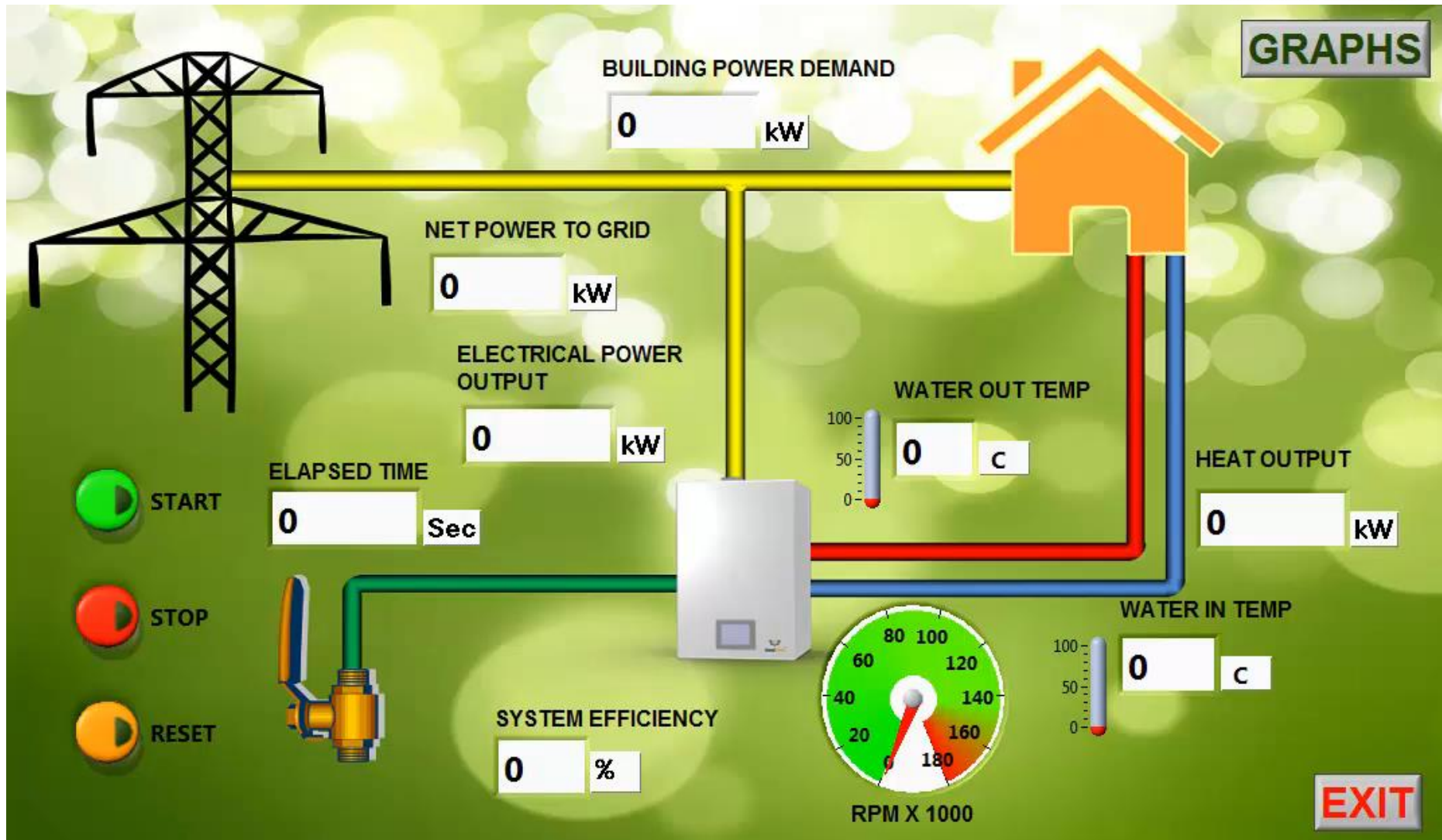
TRL 8 – System Incorporated in Commercial Design

Production Prototype (or process). Technology is proven to work - technology design for production or roll-out is completed and qualified through test and demonstration.

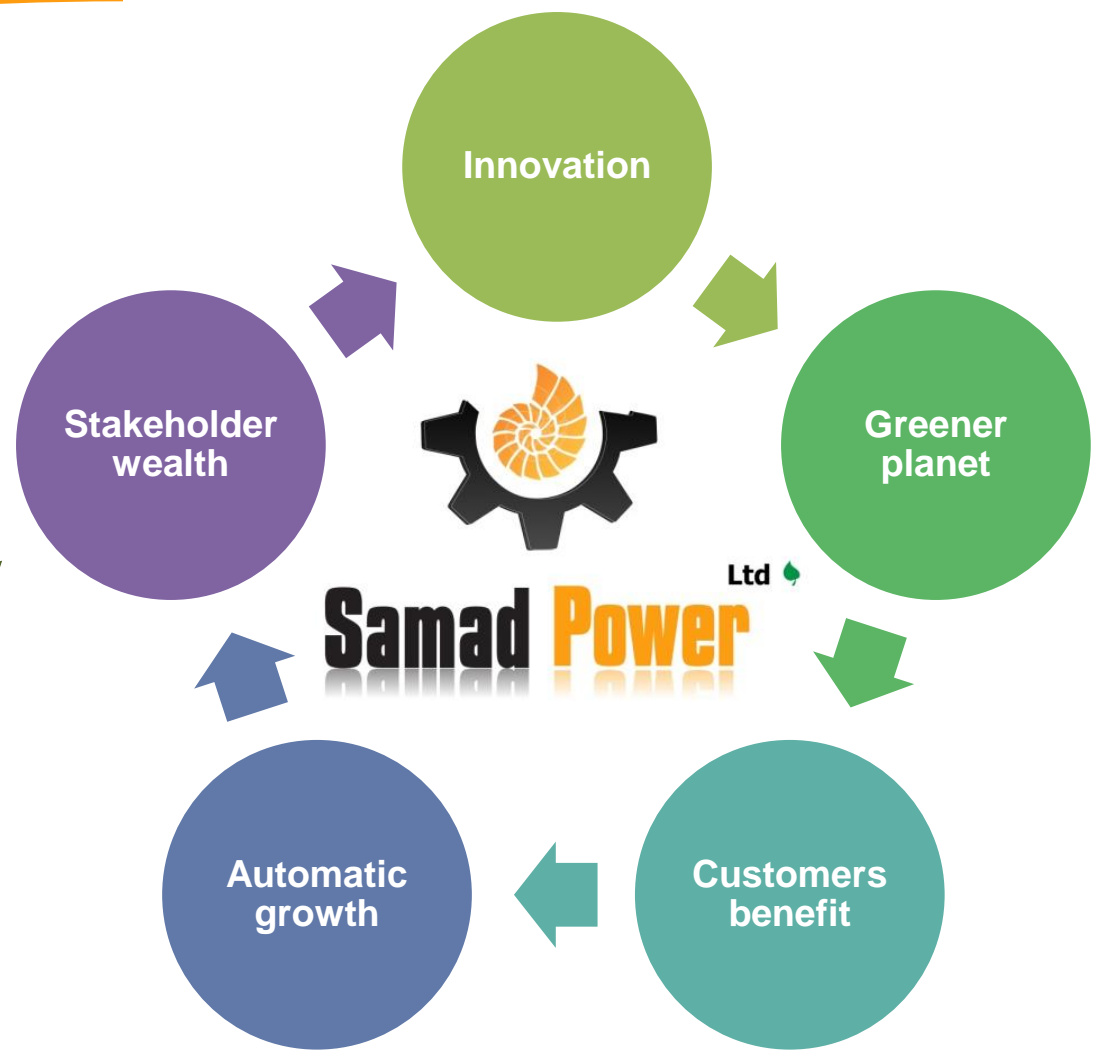
TRL 9 – System Proven and Ready for Full Commercial Deployment

Actual application of technology is in its final form - Technology proven through successful operations.

Interface of a sample test



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