

*Kew's Commercial Demonstrator:
Sustainable Energy Centre*



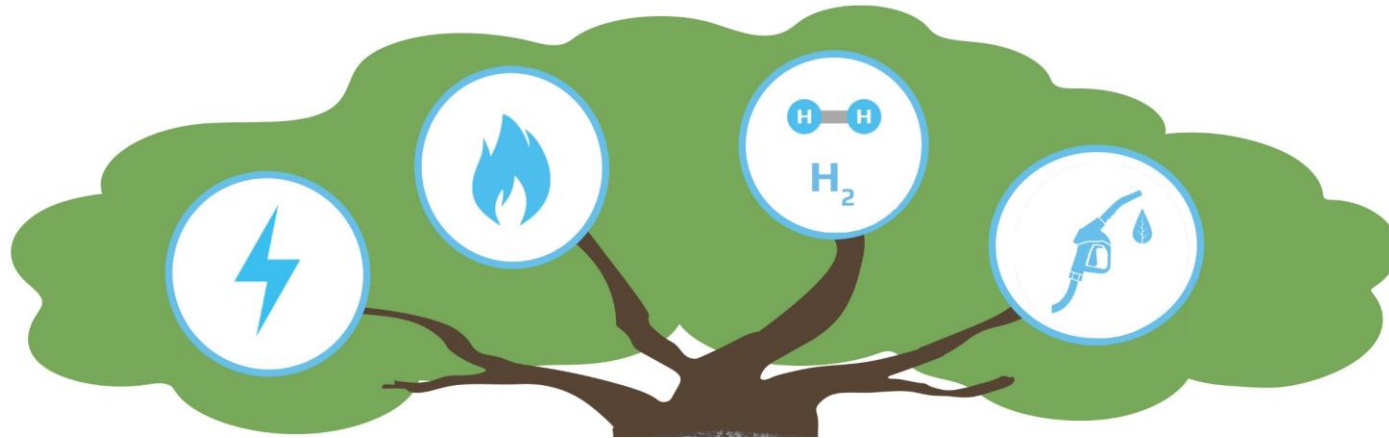
Kevin Chown

Dr Kamal Kalsi

with thanks to the

Department for Transport

Beyond fossil fuels



- Acceleration in demand for sustainable energy
- Increasing global waste problem
 - Gap for clean, efficient, cost-effective conversion technology
 - Crux is the production of consistent clean H₂ rich gas from varying waste input



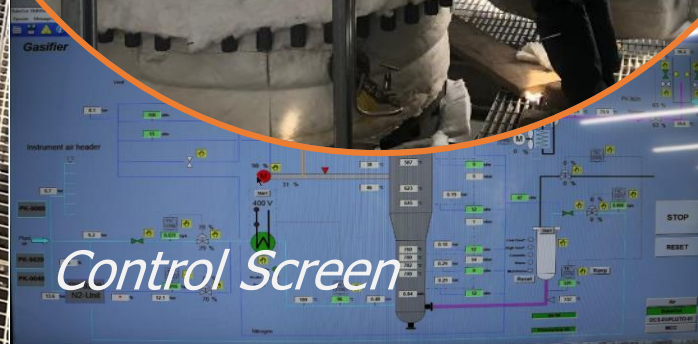
**High Efficiency
Waste Gasification
Project**

Sustainable Energy Centre

First continuous operation high-efficiency waste to power and heat plant.

- 15,000 tonnes p.a. waste
- 2 MW electrical output
- Heat to local users
- Centre of excellence: addition of other technology demonstrations

Commercial Demonstrator



- **Standardised Modules**
 - Steep ongoing cost reduction
 - Economies of scale through volume lean manufacturing
 - Add 2 or 3 modules for larger demands
 - Short project durations & low risk
- **Clean & Compact**
 - Locate close to customers
 - Planning & Permitting facilitated
- **Feedstock Flexible**
 - Use local wastes (multi-sources)
- **Energy products flexible**
 - Electricity, heat, fuels and/or hydrogen

Commercial Plants will:

- Be embedded in industrial, commercial and community settings
- Be ideal for Vertical Farming & EV charging
- Attract project finance (>16% IRR)

Kew will earn revenues from

- Module Sales
- O&M services
- Licensing

We are working with:



Innovate UK



Hydrogen
Supply



Future Fuels
for Flight and
Freight



Sustainable
energy for sub-
Saharan Africa

Participating in Midlands Capital and South Wales
Industrial Cluster

Major industrial partners to decarbonise foundation
industries and agriculture

Kew team

Highly experienced engineering & project team of 15
including the three Founder Directors:

- Dr Kamal Kalsi, CEO
>12 yrs engineering and entrepreneurial
experience
- Kevin Chown, COO
>20 yrs experience in product development & lean
manufacturing
- Hans Månsson, CTO
>20 yrs experience in pressurised gasification
systems and power plants

- Unique technology
- Virtually unlimited addressable market
- Conversion of wide range of wastes into energy products
- Commercial demonstrator in place -> route to financial self-sufficiency
- Pressurised -> compact standard 2MW modules
- Clean product gas -> flexible outputs
- Site 2 in preparation
- Raising funds to consolidate demonstration of key technical differentiation step

