

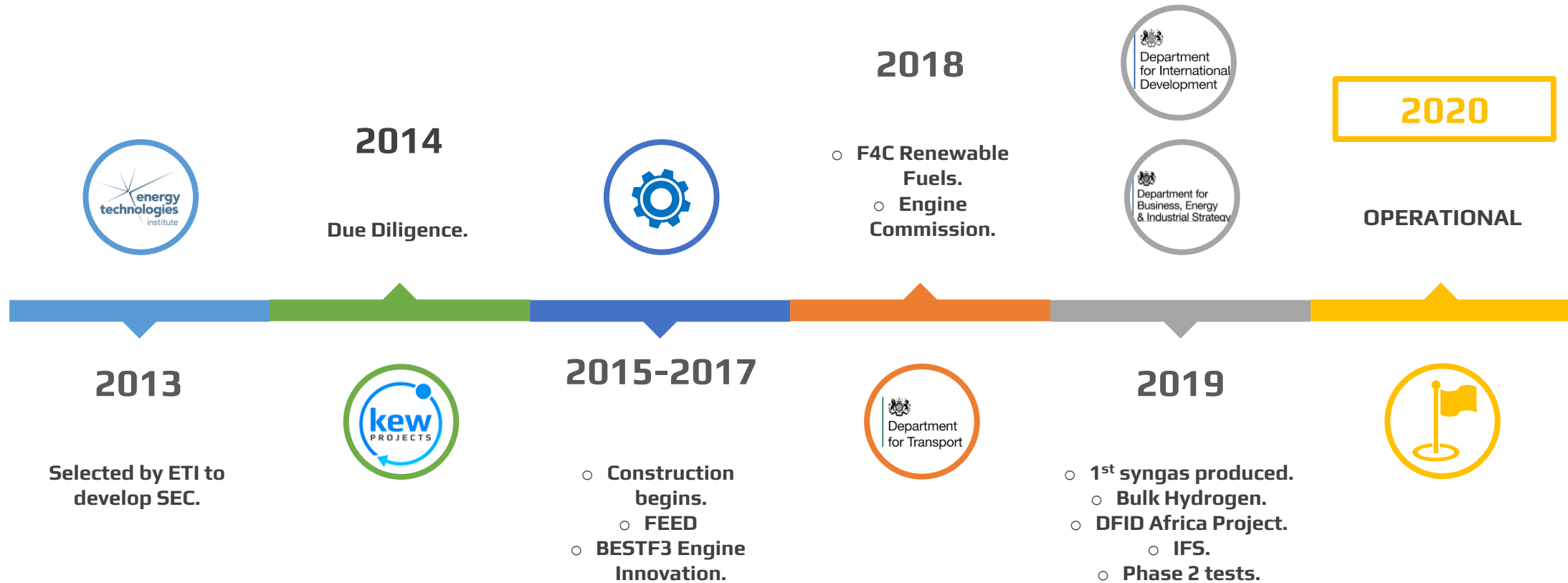


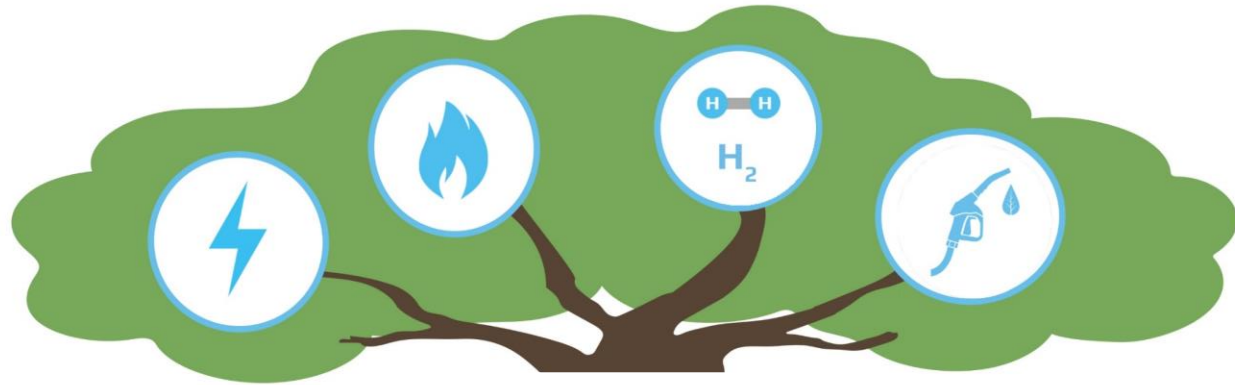
KEW Technology Ltd

3rd Generation Gasification

...a world beyond fossil fuels

KEW Timeline





Technology Gap



Technology Gap

- 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



Market Context

Large scale projects cannot tackle the Waste problem

King's Lynn incinerator: Plans for £500m scheme abandoned

7 April 2014



Final bill for scrapping Norfolk incinerator revealed

Dan Grimmer dan.grimmer@archant.co.uk [@dangrimmer24](https://twitter.com/dangrimmer24)
PUBLISHED: 11:06 01 December 2014 | UPDATED: 11:06 01 December 2014

The final compensation payment for cancelling Norfolk's controversial incinerator contract has been paid - with County Hall having lost £33.7m because of the saga.

Call for independent inquiry into Javelin Park contract

7 January 2019 by Luke Walsh

UK: Authority behind EfW plant accused of signing off 30% increase in costs of development without consulting elected councillors

Hull power plant contractors sacked amid 'delays' to £200m project

5 March 2019



11 JUNE 2019

by Caelia Quinault

Renewi provides for 'termination' of Derby contract

Renewi Plc has provided for the "complete termination" of its Derby PPP contract following a delay to the opening of the Sinfin gasification plant by its partner Interserve.

12 APRIL 2019

by Elizabeth Slow

Banks asked to intervene over Sinfin EfW plant

Derbyshire and Derby councils have called for financial backers of the Sinfin waste treatment centre to intervene to 'secure the future' of the delayed facility.

The plant, which was due to open in 2017, is being built on the councils' behalf by Resource Recovery Solutions (Derbyshire) Ltd (RRS) – a partnership between national construction firm, Interserve, and waste management company Renewi.

Demand for Sustainable Energy continues to grow

- Shortage of Sustainable Aviation Fuel
- Lack of distributed power in Urban areas; EV charging challenge

Meanwhile waste problems now coming to public attention.

Recent further evidence that large scale projects cannot deliver.

KEW Vision:
A world beyond fossil fuels

KEW's vision is to play a substantive role in the sustainable energy revolution by enabling the high-efficiency conversion of waste and biomass into valuable energy products, whilst utilising waste heat.

The commercial roll-out is built on **Flexibility** – which allows the same modules to be sold into multiple markets and applications.

Economies of Scale through serial, lean manufacturing.

Licensing opportunities in selected jurisdictions

Clean, Compact Plants converting Wastes to Energy products

Indicative Daily Values
~ 38 Tonnes waste

Biomass →

Waste Wood →

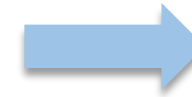
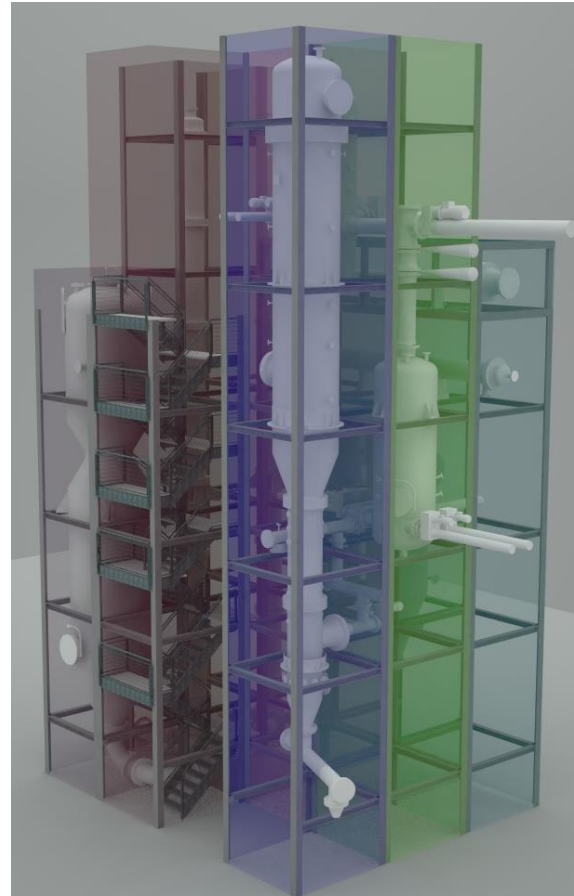
C & I Waste →

BMW →

Hazardous Waste →

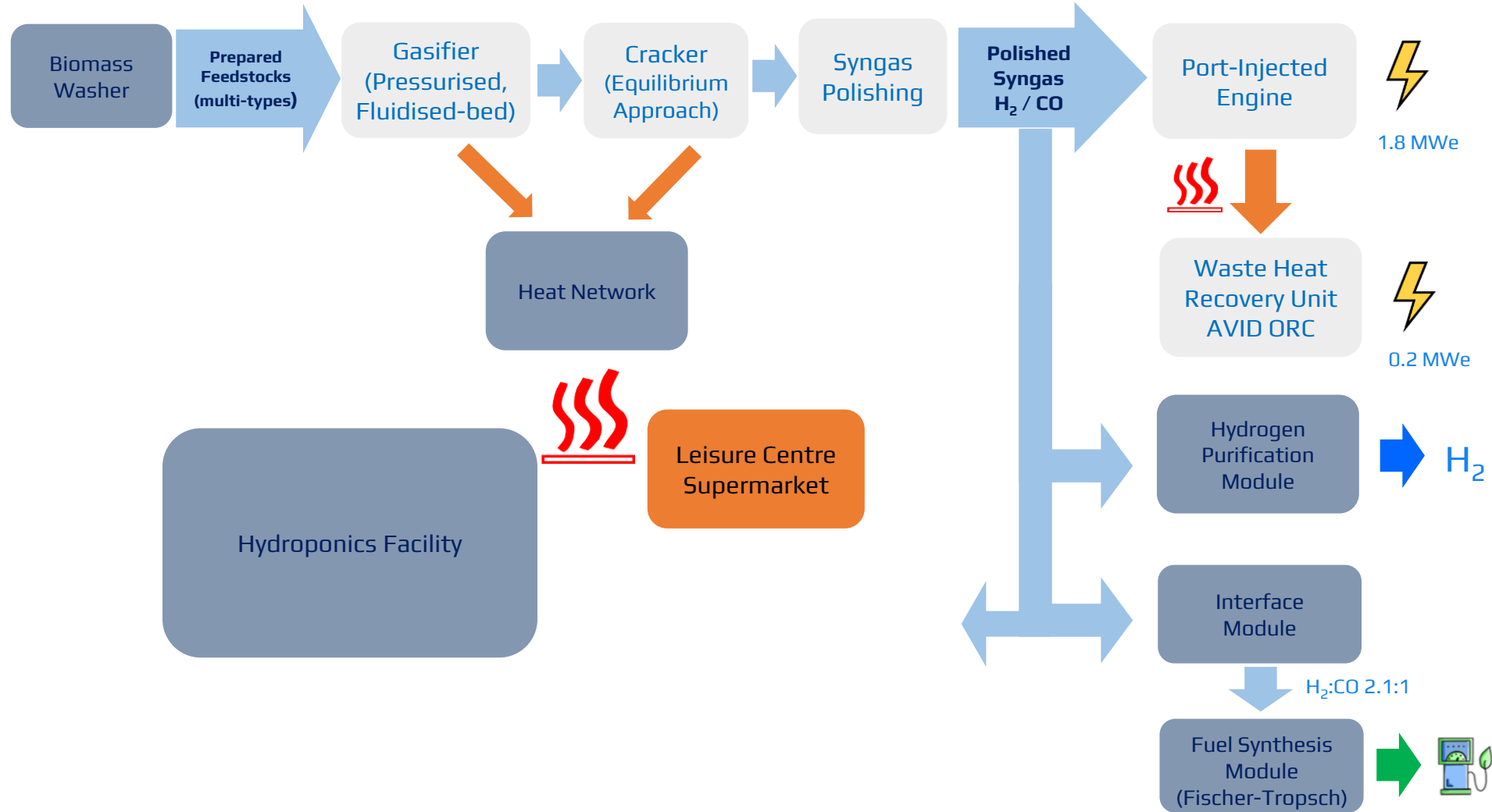
Flexibility in Feedstock to accept a wide range of wastes including premium gate fee material.

**Small Footprint
Minimum Height**



Sustainable Energy Centre Development

Sustainable Energy Centre - Vision



SEC Plant will be completed in stages during 2019.

Continuous operation, earning revenue in Q2 2020

During 2020 additional operations on site will bring capability to earn £1.5m EBITDA

SEC will also serve as:

- Customer-facing Demonstrator
- Centre of Excellence
- Training Centre

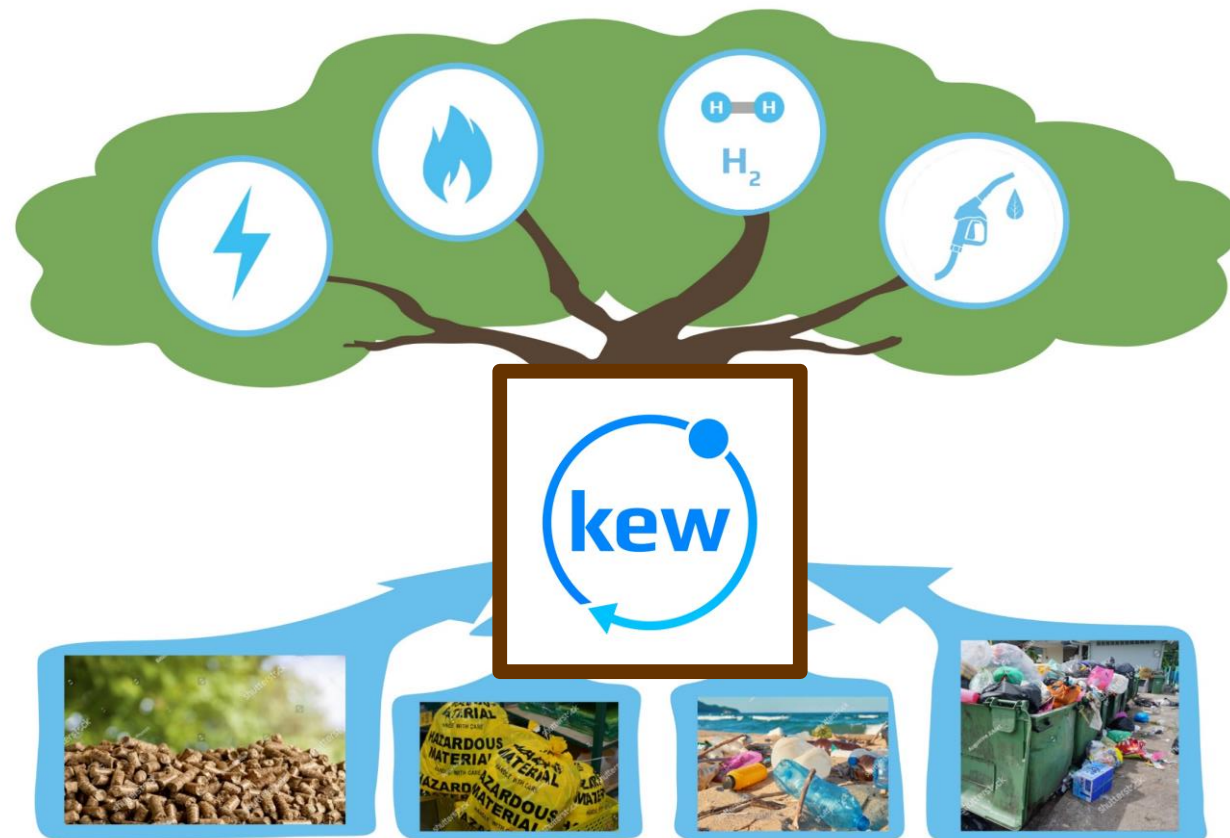
Vision Summary

Kew's Game-changing Technology enables:

- 3rd Generation Waste Gasification
- Conversion of all Wastes and Biomass into H₂ rich gas
- Production of range of Energy Products (power, heat, H₂, fuels)
- Clean
- Compact
- Factory built Modules
- Ongoing CAPEX reduction
- Swift Project Delivery
- Low Project Risk

KEW Vision: To simultaneously address Sustainable Energy Demand and Global Waste Problems

Feedstock Flexibility + Scale Flexibility + Product Flexibility + Location Flexibility = Four Pillars of Flexibility



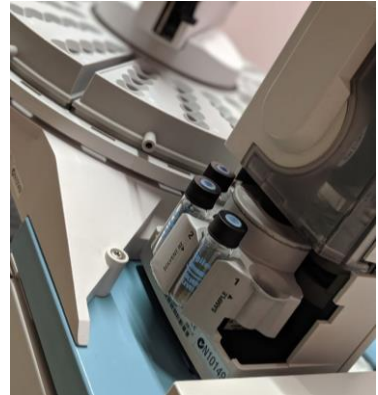
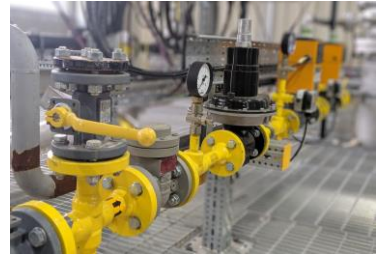
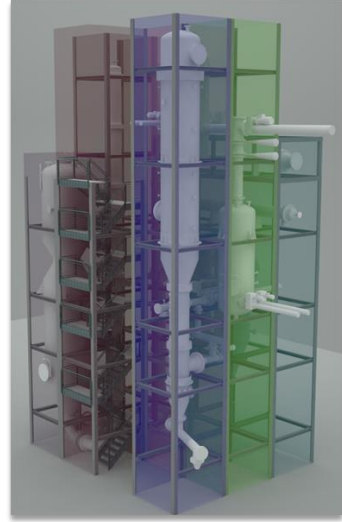
...a world beyond fossil fuels

Sustainable Energy Centre

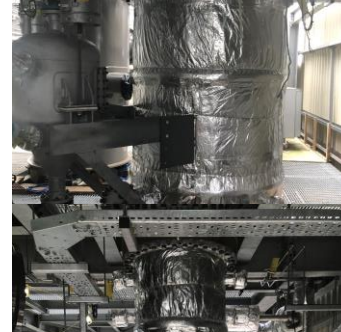
First continuous operation
high-efficiency waste to
power and heat plant.

- 15,000 tonnes p.a. waste
- 2 MW electrical output
- Heat to local users
- Centre of excellence:
addition of other
technology
demonstrations:
- Fuels
- Chemicals
- H2
- Hydroponics

Commercial Demonstrator



Gasifier & Bed Feed System



Engine Room



GC-FID & Syngas Analyser Room



Syngas Analyser

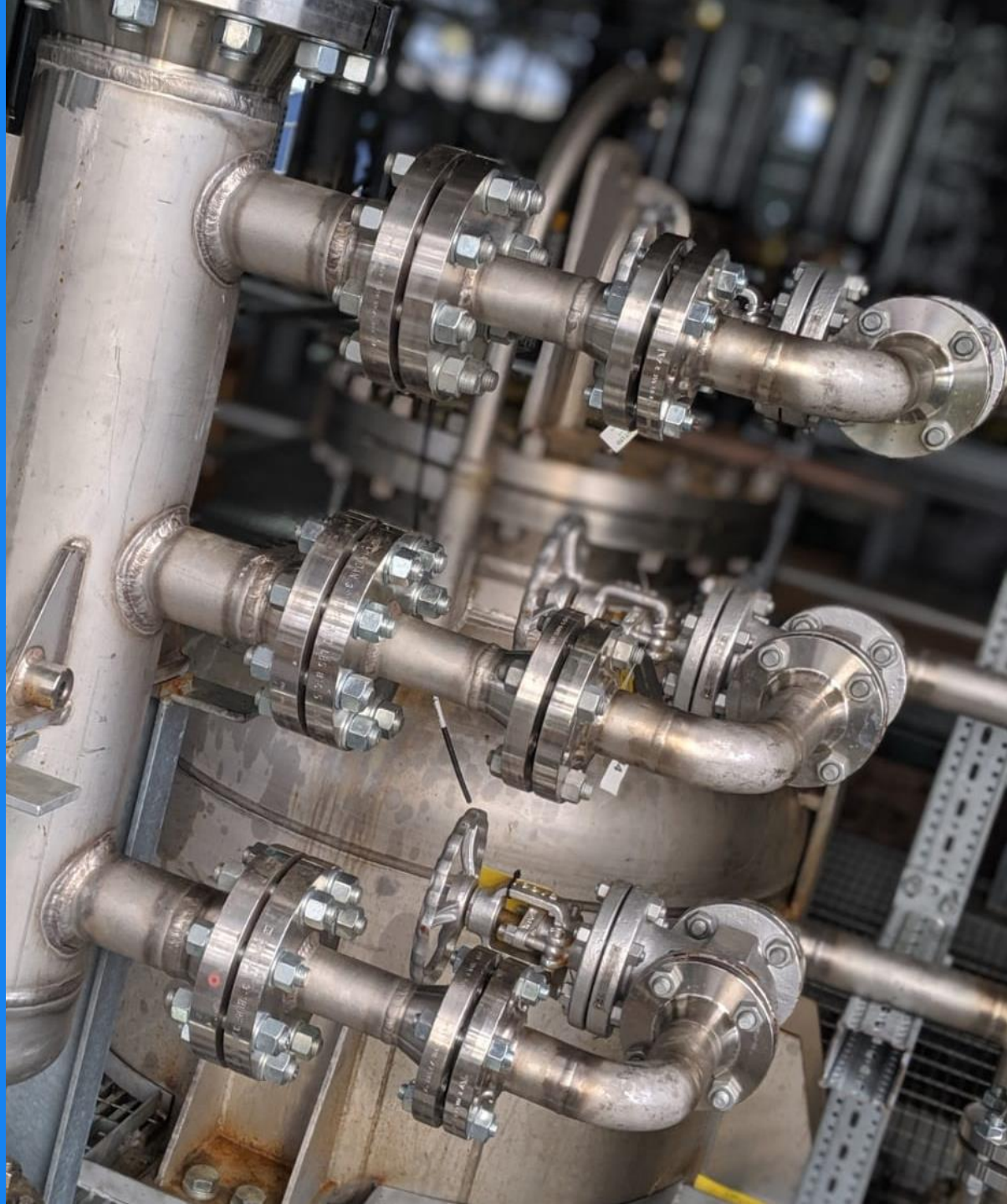


GC-FID

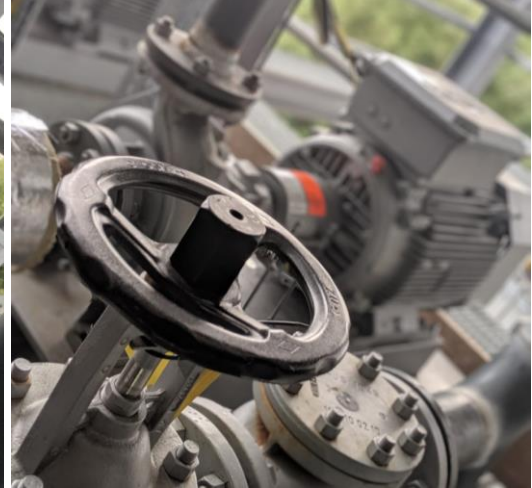
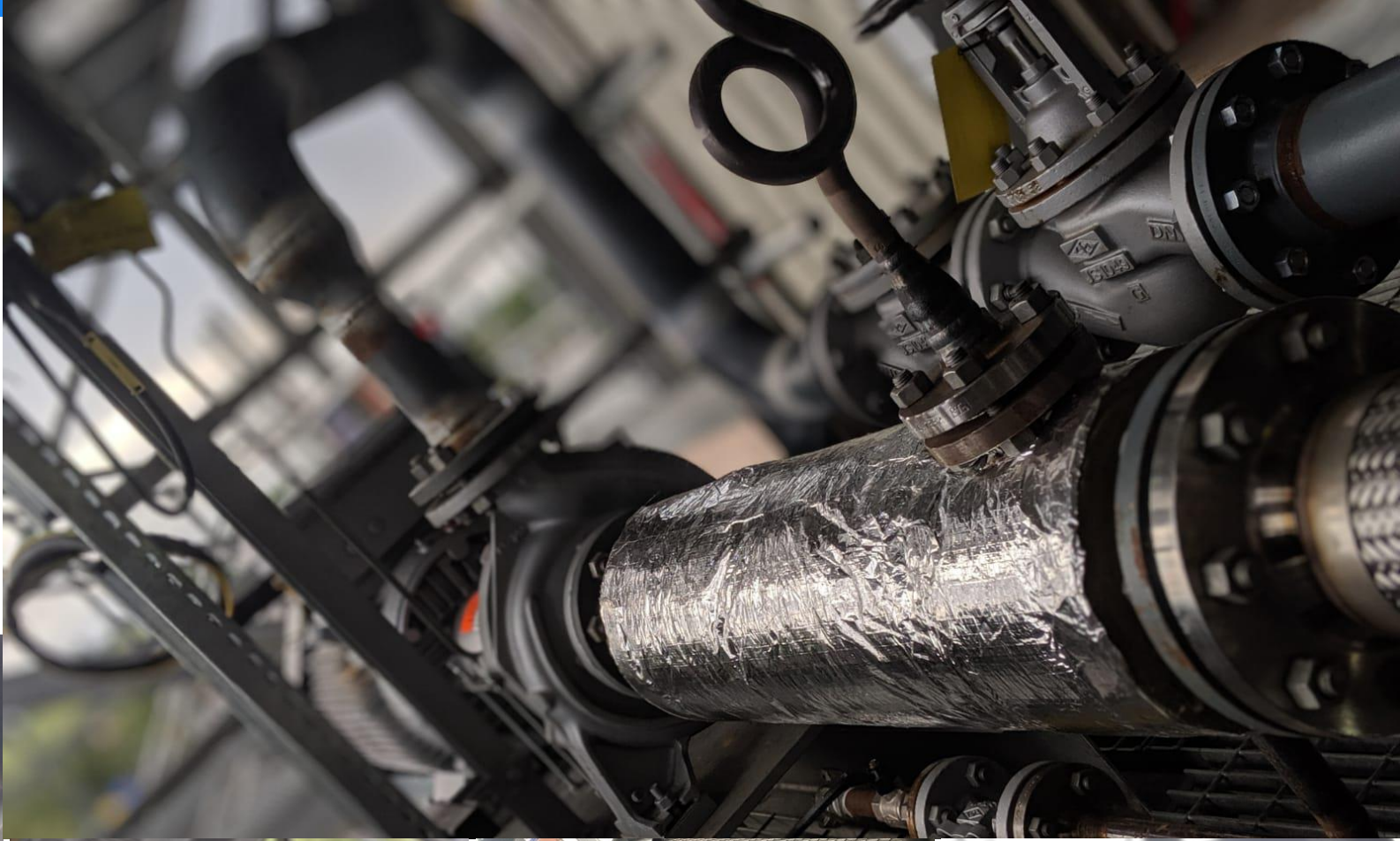
Filter Vessel & Back pulse System



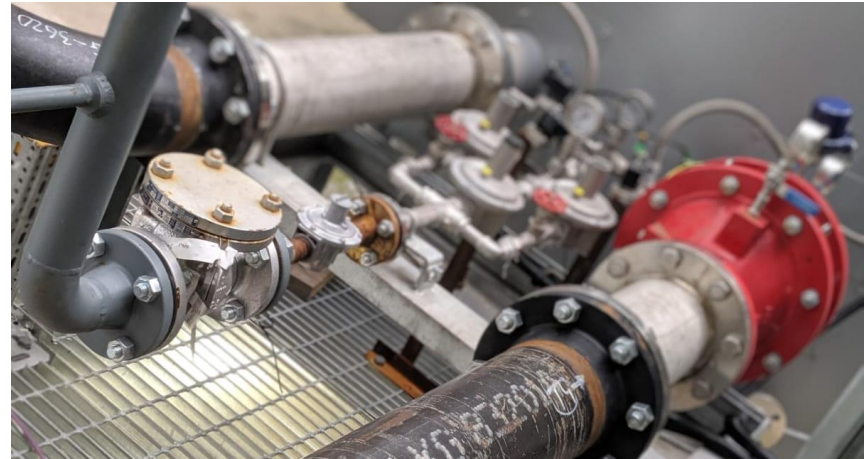
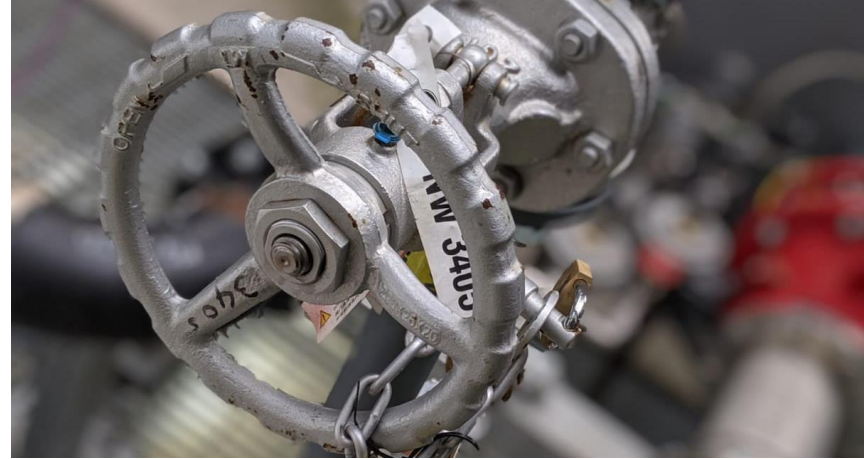
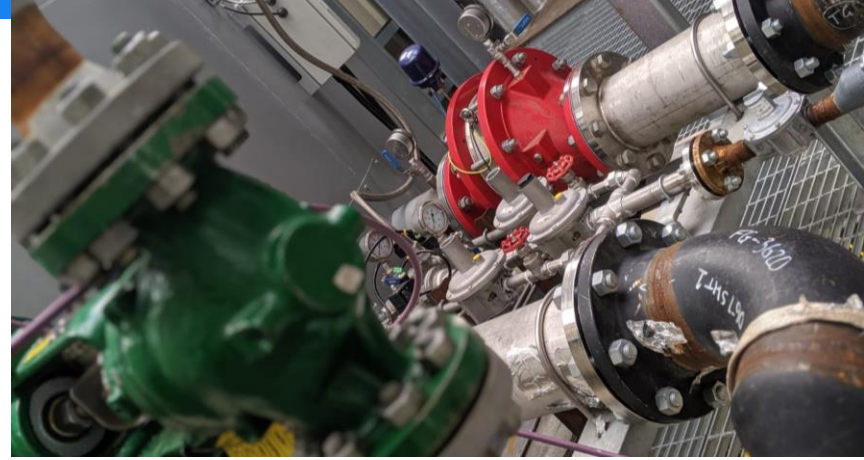
Scrubber



Hot Oil Pump System



Flare



Flare



We are working with:



Hydrogen
Supply



Future Fuels
for Flight and
Freight



Sustainable
energy for sub-
Saharan Africa

Innovate UK

Participating in Midlands Capital and South Wales
Industrial Cluster (SWIC)

Major industrial partners to decarbonise foundation
industries and agriculture

Partnerships & Team

Kew team

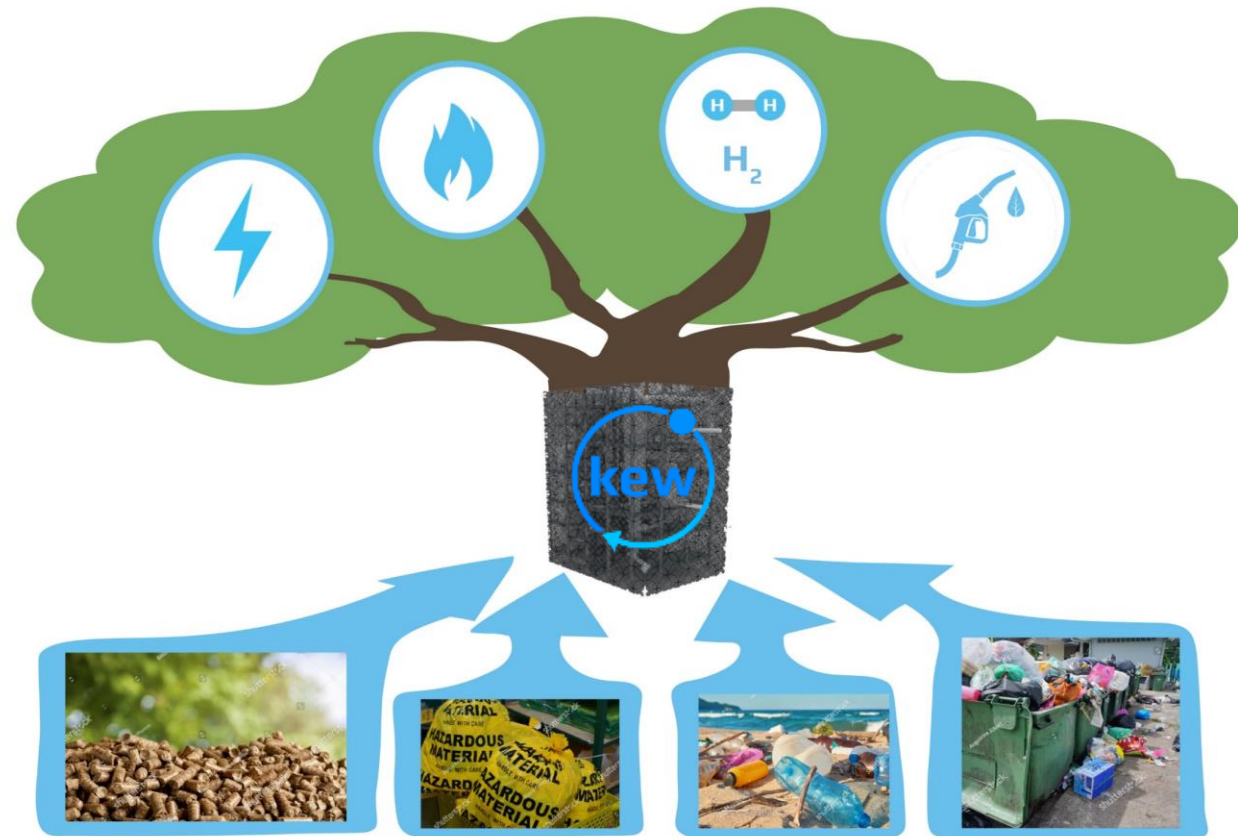
Highly experienced engineering & project team of 15
including the three Founder Directors:

- **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

KEW

- 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

Thank you for listening



Enabling the circular economy through revolutionary technology providing sustainable energy



SITE SAFETY

No unauthorised entry

All visitors and delivery drivers must report to the site office



Eye protection must be worn



This is a hard hat area



Ear protection must be worn



High visibility jackets must be worn



Protective gloves must be worn



Protective footwear must be worn





“ THANK YOU FOR YOUR TIME ”