



POWERHOUSE
ENERGY GROUP

David Ryan

CEO

April 2019

H₂

A photograph of a beach covered in a massive pile of plastic waste, including bottles, containers, and other debris. The background shows a sunset over the ocean with a mountain visible in the distance.

**>300 Million tonnes
of plastic
produced
every year**

**>8 Billion tonnes
of plastic
produced
to date**

**<10%
plastic
recycled**



**~38 million
plastic bottles
used every day
in UK**



**<30%
plastic
recycled
in UK**



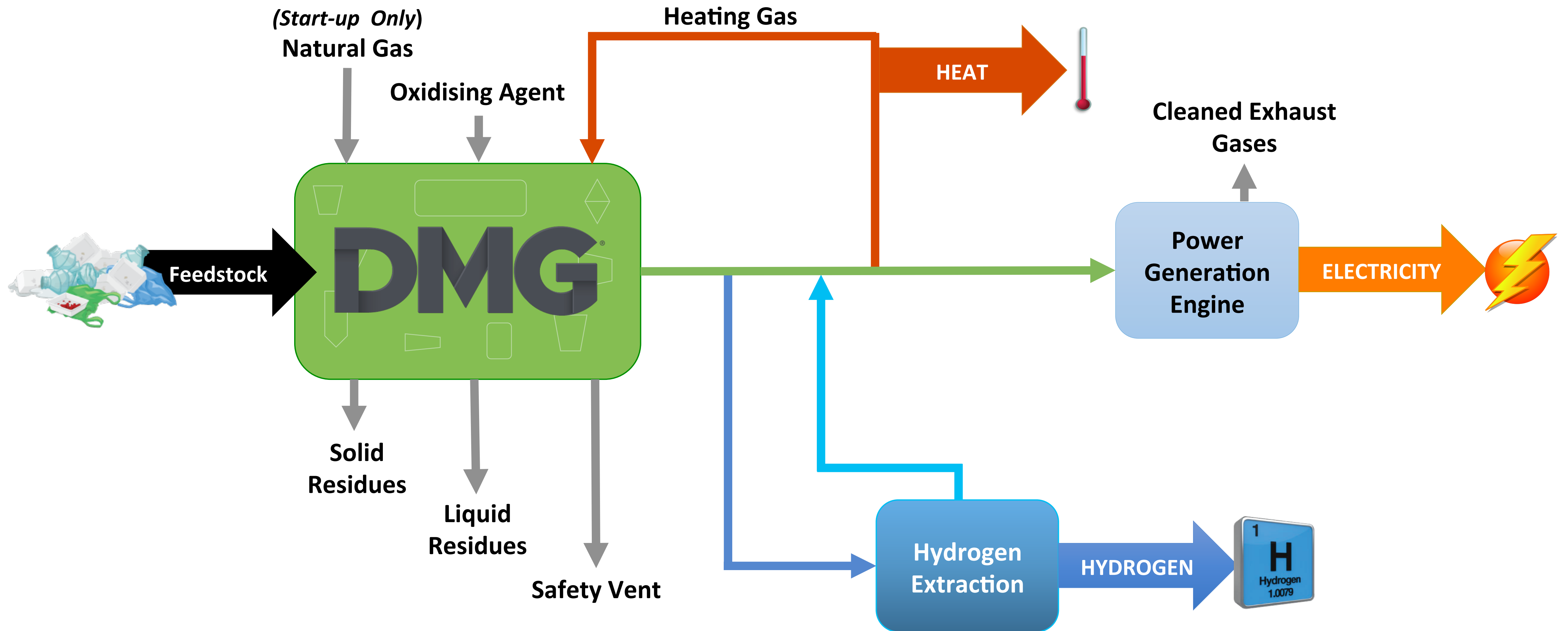
**70 million
end of life tyres
every year
in UK**

<15% recycled

WASTE OR RESOURCE?

DMG[®] Energy Recovery

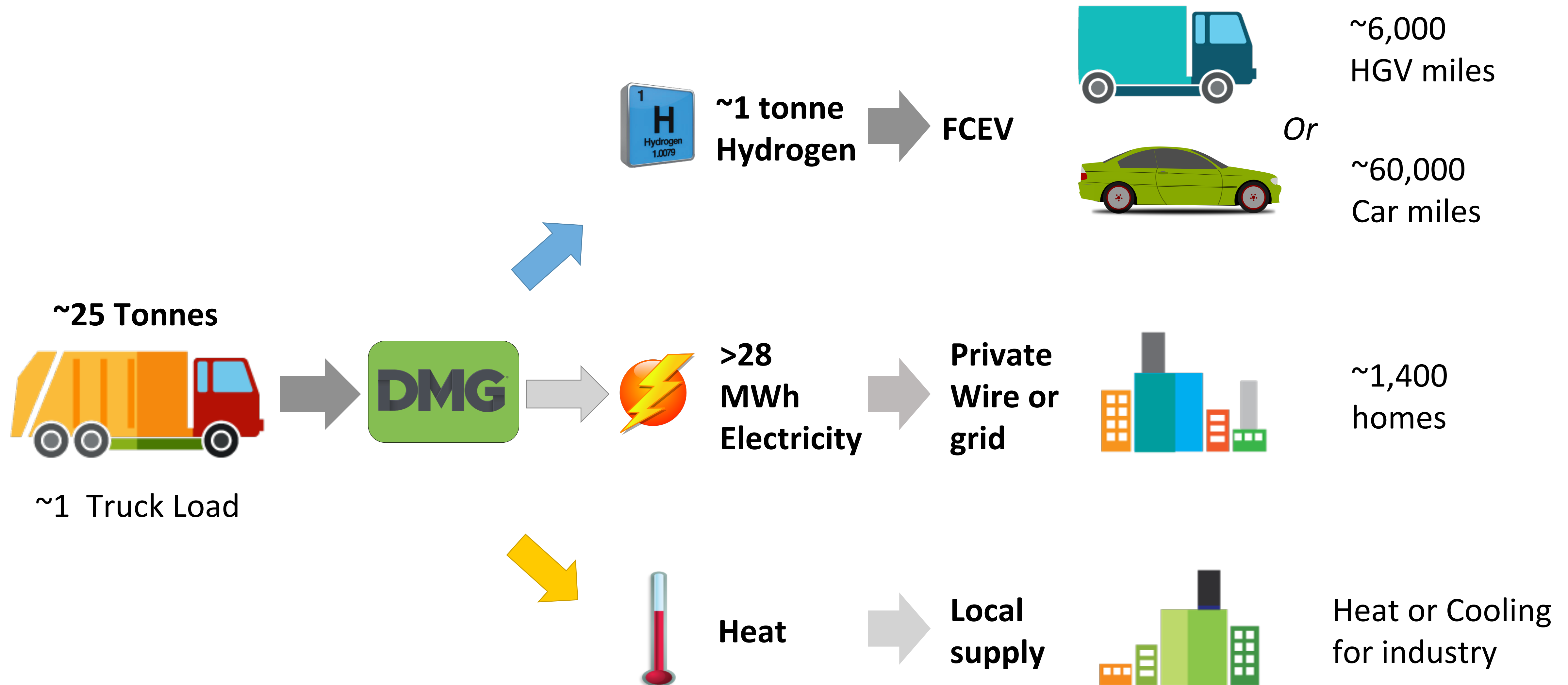
Proven and Tested Technology



Other Utilities (not shown):
Water, Nitrogen, Electrical Power, Instrument Air, Heat

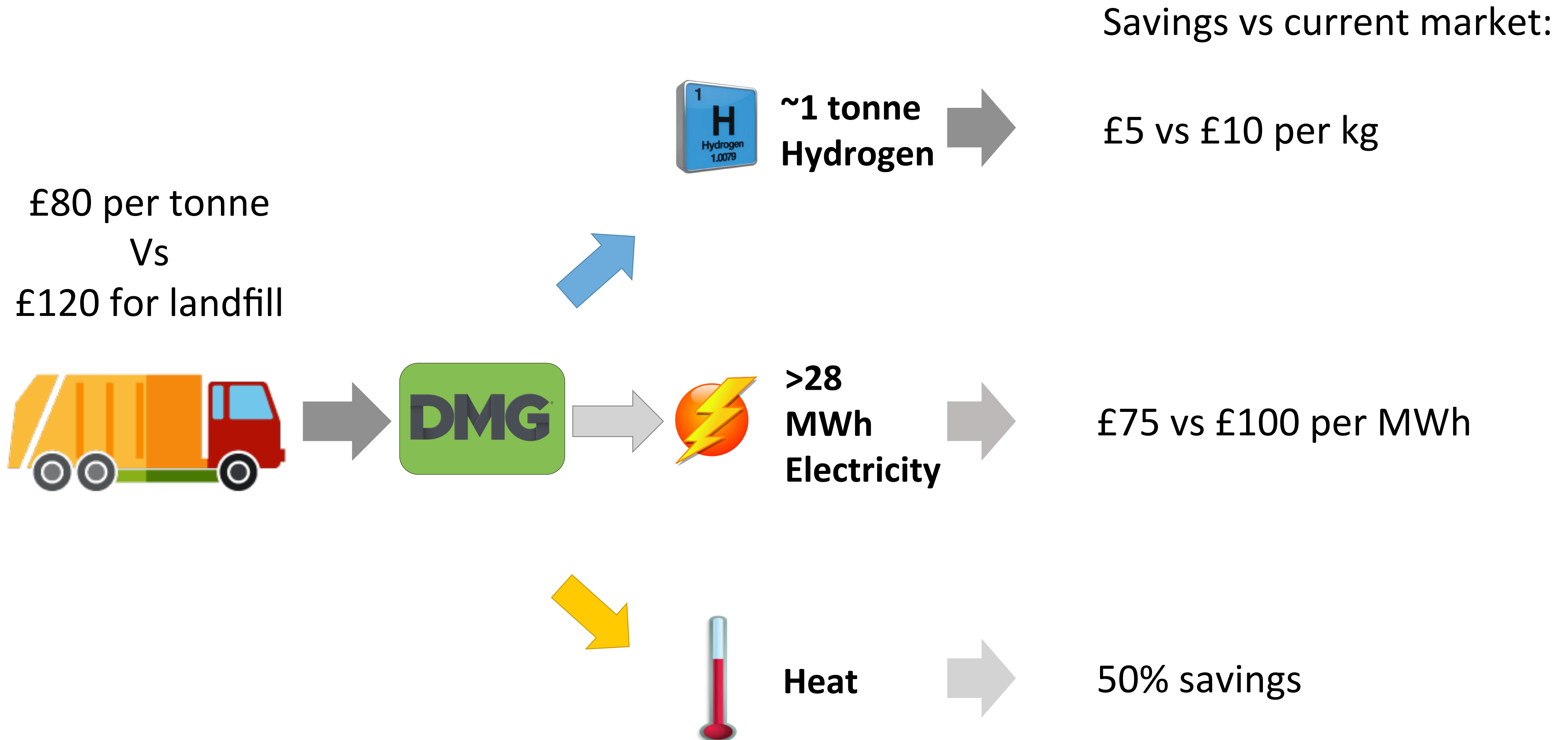
A Truck Full of UnRecyclable Plastic:

Typical Daily Values per DMG[®] Unit



Enabling Lower Cost Waste Processing

Saving Customers >£500,000 per year

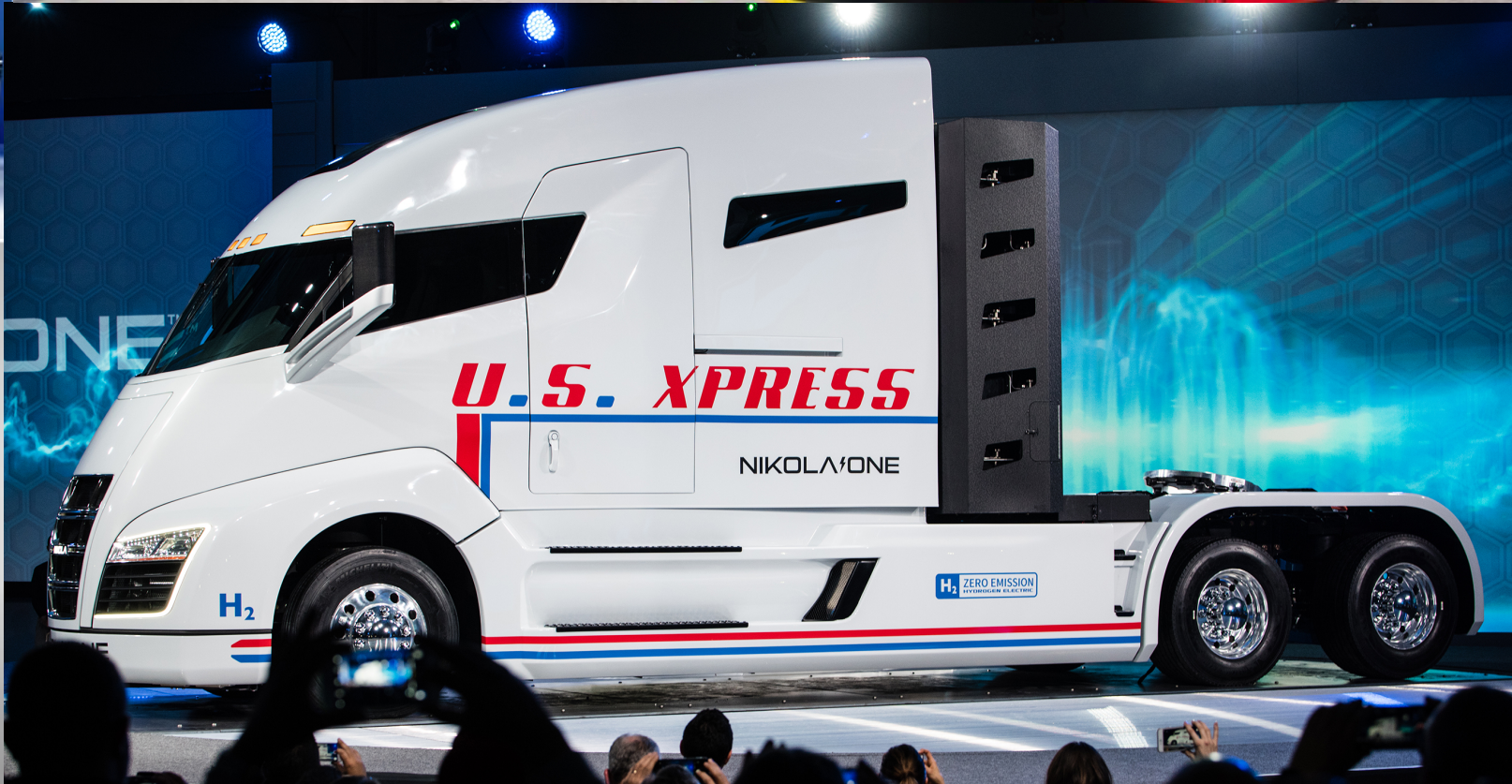


Why Hydrogen?

Hydrogen Fuel Cell Electric
Vehicles are here

Replacing Petrol / Diesel Vehicles

- Zero emissions at exhaust ... clean air
- 5 minutes to refuel
- Long range
- More environmentally friendly than batteries



A Vast Range of Global Opportunities

Complimenting existing Waste Management Services:

- Recycling Plants
- Material Recovery Facilities
- Incinerators
- Anaerobic Digestion
- Landfill Sites



Predictable Clean Energy for Industry and Communities:

- Transport
- Energy Storage (H₂ fuel cells)
- Local Energy supply
- Remote Communities
- Developing Countries

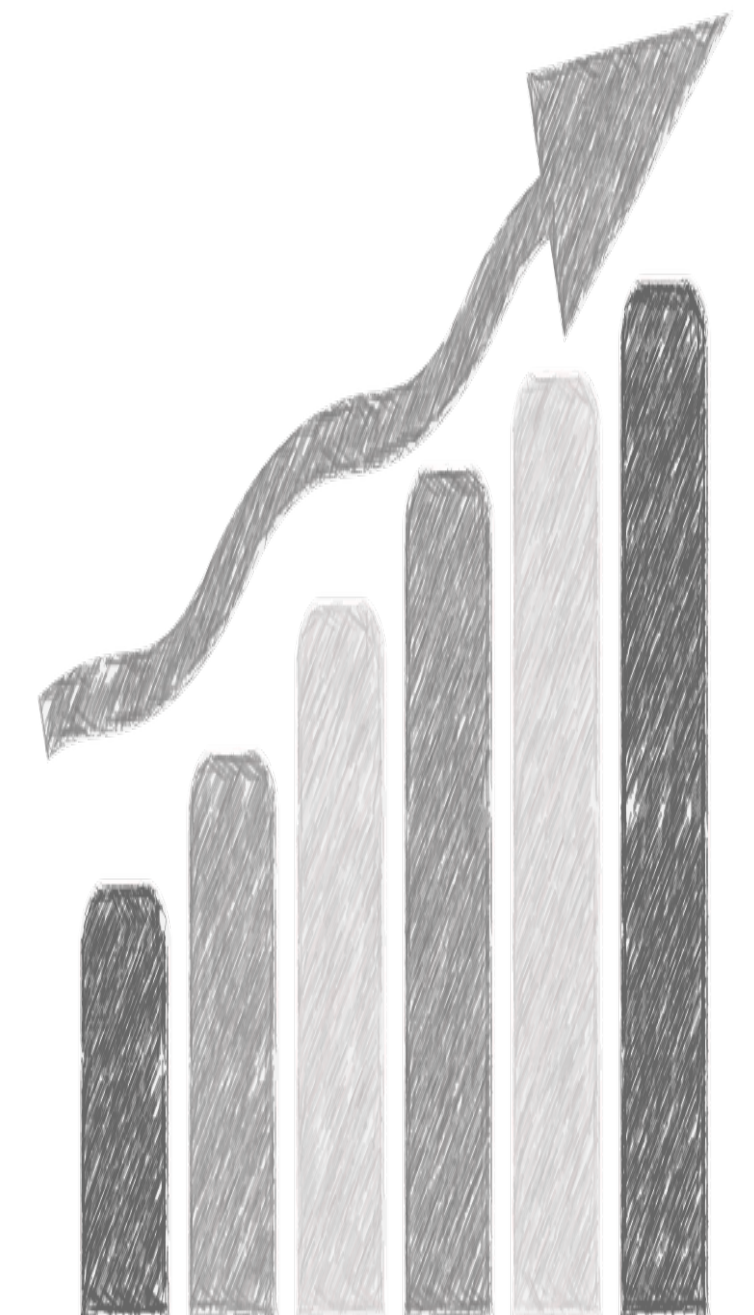
Multiple Revenue Streams for PHE

- Fees for use of Licensed **DMG**® Technology
- Fees for Regional Franchises
- Fees for Consulting services
- Fees for Engineering and Construction Services
- Fees for supply of specialist Operations and Maintenance Resources



Optimized Roll-Out

- Working with Partners, Developers and Operators to maximise implementation across regions
- Low CAPEX to PHE - minimal dilution for shareholders, no hinderance to roll-out plans



Strong Experienced Team

To Deliver Value from DMG®

- David Ryan – CEO – 38 years energy technology delivery
 - ex. Thyssenkrupp, Energy & Power, BHP
- Cameron Davies – Chair – 45 years energy developments
 - ex. Alkane Energy plc



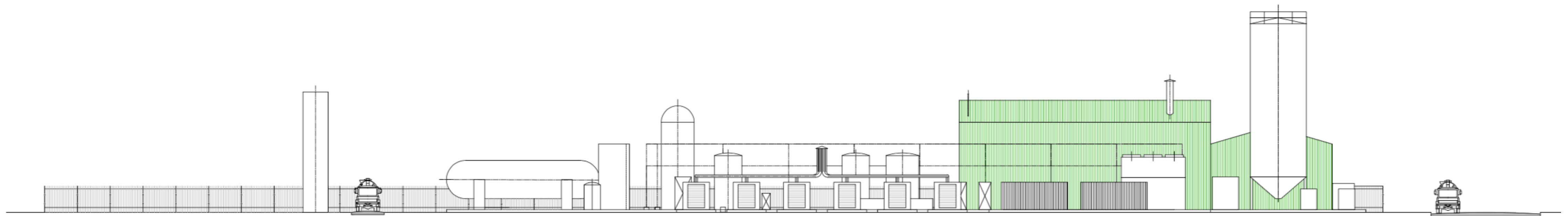
Working with industry experts

- EngSolve chartered Engineers – inhouse technical experts
- Waste2Tricity – Developers – client liaison and financing
- Build Partner – currently engaged in competitive process with blue chip



Current Status to Operations and Revenues

- Concept proven with Process Demonstrator at University of Chester
- IP wholly owned by PowerHouse Energy Group PLC
 - 8 patents being processed
- 6 sites in UK have been shortlisted for full scale commercial system
- Work Programs are being followed – inline with commercial co-operation agreements
- Target Q2 for HoT agreements in place





RESPONSIBLE ENERGY RECOVERY

- Straightforward, efficient and scalable modular design
- Enabling lower cost waste processing
 - Through Power, Heat and H₂ production streams
- Enabling low cost Hydrogen production
 - Through Feedstock Gate Fees, Power, Heat revenues
- Sound Business Model and Strong Team to deliver
 - Multiple Revenue Streams
 - Licensing and Partnership Models to enable
 - Rapid Roll-out of DMG[®] to meet growing demand
- We are on track with our plans

Thank You

AIM Ticker:

PHE

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RESPONSIBLE ENERGY RECOVERY

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