Waste, Residues and Advanced Biofuels Policy in the UK
UK 15 year strategy on low carbon fuels
Subject to Parliamentary debate
Rationale: Liquid biofuels are essential to decarbonising transport

- Electric vehicles currently <2% of new car sales.
- The government’s pledge is that all new cars and vans will be electric by 2040.

Even if all new cars were electric from 2020 embedded demand for liquid fuels remains for decades.
Today about 3% of UK transport fuel is renewable

Renewable Fuels (meeting the sustainability criteria) 1,565 million litres

- Bioethanol 789 million litres 50%
- Biodiesel 733 million litres 47%
- Biogas 1 million litres 0.05%
- Off-road biodiesel 3 million litres 0.2%
- Biodiesel HVO 8 million litres 0.5%
- Biomethanol 31 million litres 2%
And well over half is derived from waste

~70% GHG savings
Focus on waste to ensure the policy delivers genuine GHG savings
Targets set to 2032 – increases from waste and advanced fuels
The targets set a long term direction for industry

Focus increasingly on sectors difficult to electrify
And should encourage UK investment
Wastes receive double credits under the RTFO
There is detailed guidance on which wastes qualify.
Double counting (made from waste)

Sub target
2019 – 0.1% (0.05%)
2020 – 0.15%
2021 – 0.5%
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2032 – 2.8% (1.4%)
A development fuel is:

a) Qualifying Fuel  AND  b) Qualifying feedstock

Aviation fuel (avtur or avgas);

Hydrogen

Renewable-SNG

Fuel that can be blended at rates of at least 25% and still meet the relevant fuel standard i.e. EN228 for petrol, EN590 for diesel.

Buy-out price

80ppl (up to £1.60 for 1 litre)
Advanced Biofuel Demonstration Competition

- To leverage private sector investment and kick-start a domestic industry.
- To demonstrate commercial and technical viability of novel technologies.
- First production this year.

**Winning Projects**

- **Advanced Plasma Power**
  - £11m, bio-SNG, MSW
- **Nova Pangaea**
  - £4.6m, bioethanol, forestry residues
Future Fuels for Flight and Freight Competition (F4C)

- £22m matched funding industry competition

- Launched in August 2017,

- To support construction of up to five plants by 2021.

- Designed to broadly align with the RTFO ‘development fuel’ sub-target.

Targeting strategically important fuels
Statistics and guidance available online

www.gov.uk/government/organisations/department-for-transport/series/biofuels-statistics