Towards sustainable and clean mobility in Europe

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To submit questions
▪ Use the Q&A Tool in WebEx (right of your screen)
OR
▪ Email them directly to info@petrochemistry.eu
2020 SUSTAINABLE FUELS 2050 VISION

Sustainable Mobility For All
Climate Neutral Liquid Fuels

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SUSTAINABLE FUELS

Who we are:
Sustainable Fuels is dedicated to the responsible production, usage and promotion of clean, high quality, high-efficiency petrol components.

What we offer:
MTBE | BIO-MTBE | BIO-ETBE | TAME | BIO-TAME | BIO-TAEE

What we do:
Science | Product Stewardship | Communication | Advocacy
Accounting for approx. 25% greenhouse gas emissions

European Green Deal setting ambitious frame with net zero emissions by 2050

Electrification of transportation sector with stumbling blocks such as infrastructure

Our challenge: Draft a sustainable path for transport which is economically viable, affordable and sustainable
A SOLUTION BORN IN THE CHEMICAL INDUSTRY

- Liquid fuels can be made as climate-neutral as battery-electric technology.
- Climate neutral fuels can be blended seamlessly into the liquid fuel mix and be compatible with existing and future engine technologies, including hybrid.

**Figure:**
- **Electricity**
- **Hydrogen**
- **e-gas**
- **Bio-methane**
- **Natural gas**
- **Liquid biofuel**
- **EO-liquids**
- **Oil products**

**Note:** Fuels consumed in the transport sector (including international aviation but excluding international maritime) in 2050 in the Baseline, 1.5TECH and 1.5LIFE scenarios. Source: Baseline scenario, PRIMES-TREMOVE model, E3-Modelling15. Source: European Commission, February 2020.
We share the European Union’s objective of achieving climate neutrality in Europe by 2050.

We can help European governments fully achieve the goal of climate neutrality swiftly, while ensuring a socially fair transition for Europe’s citizens.
OUR SOLUTIONS: CLIMATE NEUTRAL FUELS

- A range of potential technical solutions could help industry and society to reach 2050 climate goals
- High-octane fuels, advanced biofuels, e-fuels, 100% bio-ethers, bio-naphtha / biomass or waste to chemicals
- Agroforestry and the Renewable and Recycled Carbon Fuels (RRCF) industry are ready to produce the feedstocks, (biomass) or source (waste)
OUR CONTRIBUTION TO THE 2050 VISION

- Rapid lowering of emissions in a cost-efficient manner
- Cost-effective and practical methods of storing energy from renewables
- Preservation of the resilience of Europe’s energy supply
- Advancements in sustainable hybrid fuel technology building on existing industrial base and applications
- Continued utilisation of chemical waste as the feedstock for fuel ethers
We support the Paris Agreement and share the European Union’s objective of achieving climate neutrality in Europe by 2050.

A rapid shift to high octane fuels would have an immediate and positive impact on air quality and CO2 emissions from the existing car fleet.

High octane, advanced biofuels, 100% bio-ethers, bio-naphtha or waste to chemicals and e-fuels are examples of a range of potential technical solutions.

We see a world in 2050 where climate neutral liquid fuels and electricity work together in a sustainable, affordable mobility system.
SUSTAINABLE FUELS 2050 VISION

SUSTAINABLE FUELS VISION IN 3 MINUTES

https://www.youtube.com/watch?v=dxwAfhxrug
TTW CO2 emissions from Road Transportation (t/y)

- **Do Nothing**
- **with EVs**
- **with EVs and Eff Gain**
- **With biofuels also = Base Case**
- **Maximum use of biofuels = More Bio-case**

Graph shows emissions from 2020 to 2050, with timelines for different scenarios.
Increasing shares of renewable energy did not impact the volume of fossil fuel....