Neste Veturi Public Roadmap
10/2022
Replacing fossil resources with renewable and circular solutions is a huge opportunity

There could be 600m electric passenger cars by 2040, replacing around 360 Mtoe of fossil transport fuels.

Biofuels have the potential to replace up to 1,000 Mtoe of fossil transport fuels.

Power-to-liquids, hydrogen, and algae hold significant potential for fossil-fuel displacement in transport in the long term.

Oil used in transportation 2,850 Mtoe/a (2040)

Global oil consumption 4,770 Mtoe /a (2040)

We are making Finland a global forerunner in sustainable fuels, polymers and chemicals.

- Scalable global solutions to tackle climate change
- Billion EUR scale new businesses beyond 2030
- A world class competence ecosystem in Finland
Our value proposition to our partners: Co-create healthier planet for our children

We have ambition, commitment and courage to develop globally scalable sustainable solutions.

We have strong technology development and scale-up capabilities.

We have a solid track record in developing profitable, sustainable businesses in global scale.
Neste Veturi develops globally scalable sustainable solutions

**Sustainable renewable and circular raw materials**
- Lignocellulosics
- Algae
- Novel vegetable oils
- Waste plastics
- Municipal solid waste
- Renewable H₂ & Power-to-X

**Novel technology platforms**

**Sustainable products**
- Road transportation
- Aviation
- Polymers and chemicals
Neste Veturi focus areas to build new, scalable business by 2030

**Lignocellulosics**
How to commercialize new technologies to convert forestry, forest industry and agricultural waste into fuels and chemicals.

**Algae**
How to develop algal technologies with the aim to expand renewable raw material pool to support future growth of renewables production.

**Novel vegetable oils**
How to develop sustainable cultivation methods that don’t require replacement of any existing crop cultivation, minimize indirect land use change, and reduce GHG emissions along the downstream value chain.
Neste Veturi focus areas to build new, scalable business by 2030

Waste plastics

How to develop technologies and capabilities to chemically recycle otherwise hard-to-recycle waste plastic through liquefaction and refinery upgrading to drop-in petrochemical feeds for manufacturing of new plastics and chemicals.

Municipal solid waste

How to utilize currently not recycled or hard-to-recycle municipal solid waste fractions into sustainable aviation fuels, other sustainable fuels and chemicals.

Renewable H₂ & Power-to-X

How to deliver sustainable products from CO₂ and clean electricity.

How to develop renewable hydrogen solutions for existing use and beyond.
Join us on a journey to create a healthier planet for our children

We are constantly looking for partners to build competences and solutions. Joint R&D could include topics like:

- Game changing, novel technologies and value chains for sustainable fuels, polymers and chemicals
- Efficient forest industry waste and residue supply chain, mechanical processing as well as refining to fuels and chemicals
- Scalable and energy-efficient methods for algae biomass processing to fuels and chemicals
- Sustainable multicropping systems and sustainable intensification of crop production in marginal lands
- Alternative technologies for chemical recycling and the recyclability of plastic materials to expand the pool of waste plastics that can be recycled
- Separation of the hard-to-recycle fractions from municipal solid waste for processing into sustainable fuels and chemicals
- Hydrogen storages and logistics, and energy management models for green hydrogen production
- Flexible synthesis PtX technologies, efuel synthesis, and novel CO\textsubscript{2} utilization technologies
For more information on Neste Veturi, please contact Teija Laitinen
teija.laitinen@neste.com
or visit our website
www.neste.com/veturi
Thank you