



veturi

program
for tackling
climate crisis

Novel sustainable & scalable solutions for transportation and chemicals
Neste Veturi roadmap

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.


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

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

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


A horizontal timeline diagram consisting of three segments. Each segment is defined by a horizontal line with a vertical tick mark at its right end. The segments are separated by vertical lines that extend upwards and downwards from the horizontal line, resembling a comb or a series of dividers. The text for each segment is positioned below the horizontal line.

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

Ligno-
cellulosics

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 CO₂ utilization technologies



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A person with long hair, wearing a grey sweater and black leggings, is walking away from the camera on a long wooden pier that extends over a body of water. The background shows rolling mountains under a clear sky. A large, semi-transparent green shape is overlaid on the right side of the image, and several thin white lines radiate from the person's head towards the corners of the frame.

Thank you