

# IDEAL FOR BIOREFINERIES

Finland is at the epicenter of the global growth of the bioeconomy. Recent major investments in advanced bio-products and a renewing industry cluster offers huge growth potential with platforms and projects worth close to five billion euros.

With numerous growth & partnering opportunities, world-class competence and favorable policies, Finland offers a unique platform for bio-based production, partnerships and innovation.

We are experiencing a biofuel and pulp boom. New refineries and mills are coming, while platforms and resources are ready now for further refinement, product formulation and the production of value-added products, such as bio-chemicals and advanced biomaterials.

Most heavily forested country in Europe, **86%** of land area is forest

**90%** of the Finnish forests are PEFC-certified

Annual growth exceeding **100M m<sup>3</sup>**

## UNIQUE PLATFORM FOR BIOBASED GROWTH

Strong industry cluster

World-class competence

Growth & partnering potential

Abundant feedstock

Government support



## CONTINUING BIOFUEL BOOM SINCE 2008

Finland is a frontrunner in decarbonizing road traffic. A blending obligation was taken into use in 2008 and the speed of development was increased with a reworked tax system, including a tax deduction for clean burning fuels in 2011. Thus, the ambitious target for having 20% of renewable traffic fuels by 2020 was reached 5 years ahead of schedule in 2015. New environmental mandates in all EU countries will drive rapidly increasing demand for traffic biofuels in the future. Finland has development platforms, partners, and feedstock available for solutions designed to meet EU requirements.

## MEETING THE ASIAN PULP DEMAND

Driven by China and the rest of Asia, demand for paper-grade market pulp is expected to grow by 20 million tonnes between 2014-2030. The Finnish forest industry cluster is well prepared to meet growing demand: production and exports from current factories is maximized and several new major bioproduct plant projects are moving ahead.

Metsä Group's new next-generation bioproduct mill opened in 2017 at Äänekoski. There is currently a real pulp boom in Finland offering numerous collaboration and investment opportunities. The major opportunities include for example: Boreal Biorefinery, Finn pulp, KaiCell Fibers projects in addition to Metsä Group's second new Mill at Kemi.

## PARTNERING FOR ADVANCED PRODUCTION

For expertise and resources in further refinement, product formulation and the creation of value-added services and products, such as biochemicals and advanced biomaterials, Finland's thriving bioeconomy cluster offers excellent business and partnering opportunities for international companies.

Everything made from oil today can be made from wood in the future. Flexible screens, sound systems, car parts, packaging materials, adhesives, paints, cosmetics, medicines, and textiles – wood is likely to serve many new markets in the future.



National target for 2030:  
**30%** share of biofuels in  
road transport



Biofuel blending obligations  
and tax legislation approved  
in 2019



Pipeline of new projects  
under development



**600 000** tonnes of new  
capacity needed for meeting  
the demand of just the  
domestic market