Bioenergiapäivät Tampere 24.10.2022

Tuomas Saarinen, CEO BioEnergo Oy Bio Energo Bio Fuels

BioEnergo background



MISSION

Bioenergo aims to limit global warming and C0²- emissions by offering alternatives to fossil fuels

VISION

To become a market leader in 2nd generation biofuels in Europe by 2030

MILESTONES ACHIEVED Image: Steen Steen

BioEnergo focus



Sawmill side-streams are given a second lifecycle with modern and 100% sustainable way



And processed to 2G biofuels through entsymatic hydrolysis



Reducing traffic borne C02-emission by 7% in Finland



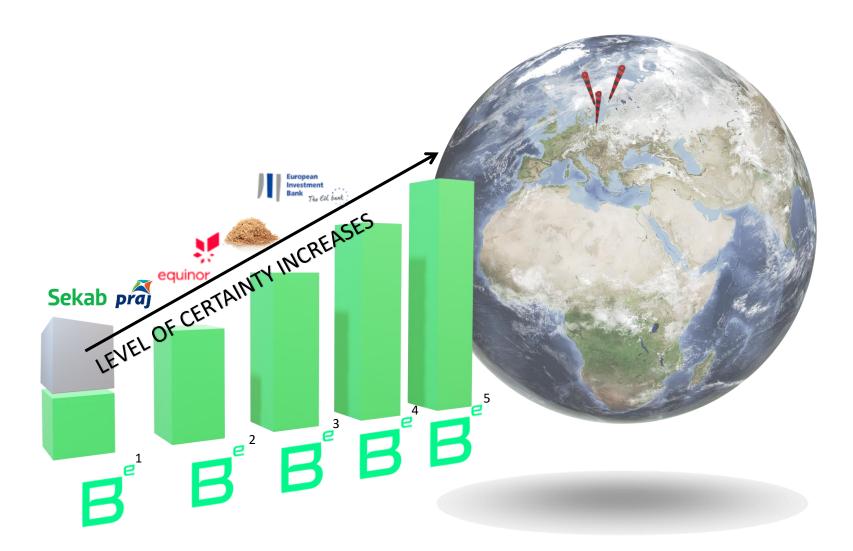


Bioethanol fuels 400 000 cars

BioGas fuels + 200 trucks

Lignin replaces bitumen in tarmac

Multirefinery strategy with world leading partners



Technology



Local engineering support



Clients





Sustainability and fiscal impact



Long-term growth

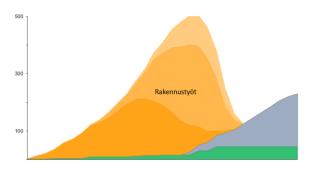
300+ MEUR investment in Pori

Substantial domesticity %



Emission reduction

Bioethanol fuels **400k cars** Biogas fuels **15k cars** Life span **30 - 50 years**



Employment

- + 500 jobs during construction
- + 250 new permanent jobs



Export surplus

Bioethanol ~1 500 MEUR Lignin ~ 800 MEUR





Management



Timo Saini Chairman & Founder



Soren M. Overgaard Board member CEO, Axiom Group Ltd.



Lara Pacheco Board member Legal Counsel, Axiom Group Ltd



James Murphy Board member CBDO, Axiom Group Ltd.



Kim Isosomppi CFO



Tuomas Saarinen Managing Director

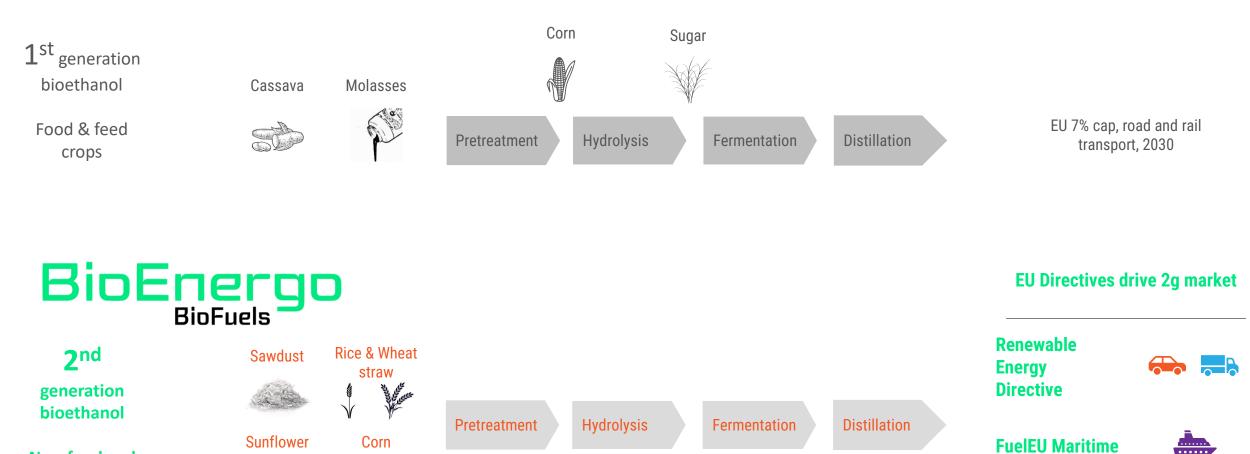


Samuli Kyttälä CTO



ReFuelEU Aviation

Biofuels for sustainable transportation

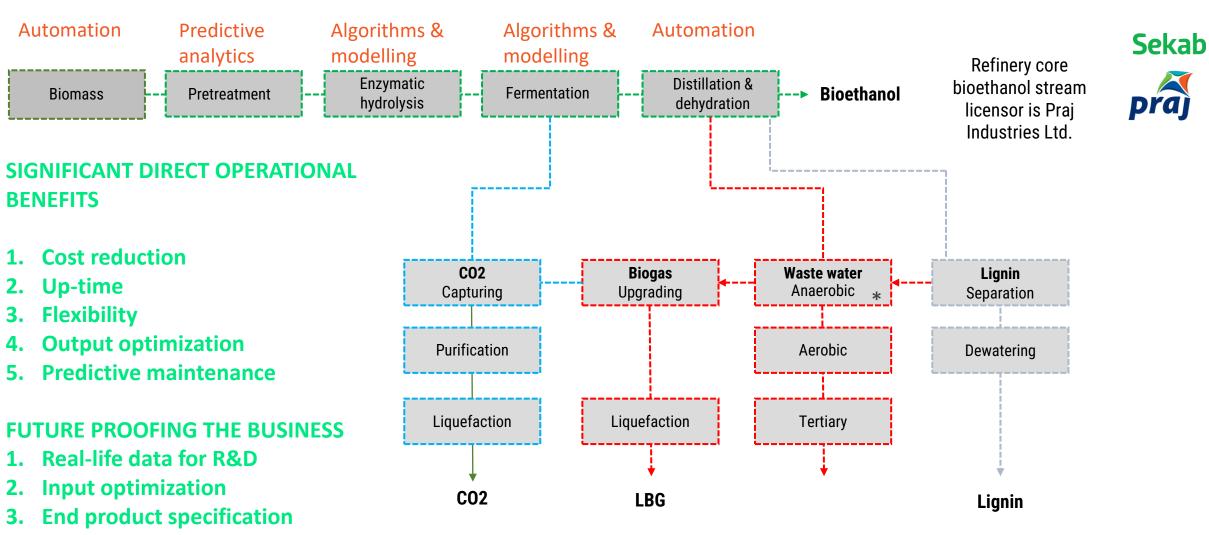


Non-food and waste-based biomass

stalk

stover

Process, technology and outputs



* Biogas Sludge

B

BioEnergo One

- Location Pori, Finland, Baltic Sea
- Feedstock Softwood sawdust, 200 000 dry tons
- **Capacity** 60 000m³ bioethanol
- FuelsBioethanol, Biogas (LBG)OtherLignin, green CO2
- **RED2**Advanced biofuel from feedstock
listed in Part A of Annex IX.
Obligation: Min 3,5% by 2030.
- **GHG saving** Red 2 emission saving wi CCU of 100%, 3rd party CHP plant
- PermitEnvironmental permit received12/2021
- Offtakes Negotiating with oil majors, global energy traders and others
- Markets Port access. Export to NW Europe.



