



Country Update Austria

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Energy security and prices in Austria

- Electricity price at 400 €/MWh
 - Natural gas price at 200 €/MWh
 - Transport fuel price peaked at 2.1 €/l
- High energy costs for households and industry, some industry forced to reduce production or shut down
- Renewable gas production now high on the agenda

EU regulatory framework

- EU Fit-for-55 package
 - Renewable Energy Directive - might be finalized by end 2022
 - ReFuelEU aviation - Trilogue starting now
 - FuelEU maritime
 - EU ETS
 - ...

→ Unclear market frameworks, stalling investment decisions

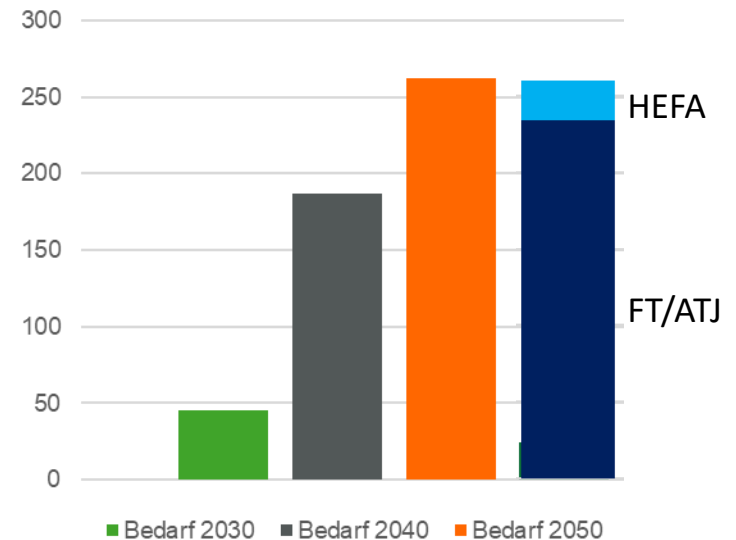
Hot topic in Austria: Sustainable Aviation Fuels

- Platform of leading infrastructure companies in energy, mobility and digitalisation „ZÖVI“
 - Developed SAF action plan, highlighting 10 key points for policy makers and the need for 750 m€ public funds
- Ministry working on SAF roadmap
- OMV already producing 2.000 t/a of co-processed oil-based SAF, delivering 1.500 t to Austrian Airlines this year
- Agrana considering LanzaJet technology
- AVL developing SOEC co-electrolysis + FT synthesis technology
- Wien Energie + BEST demoplant for waste gasification + FT synthesis

SAF demand and supply in Austria by 2050 - Scenario “priority for SAF production”



- SAF demand:
 - Eurocontrol growth and efficiency estimates
 - EC proposal ReFuelEU Aviation targets and subtargets
- SAF supply:
 - 100% of UCO and 33% of animal fats used for HEFA production
 - 50% of sewage sludge, 40% of SRC, 25% of Miscanthus, 10% of unused forest growth used for FT and ATJ

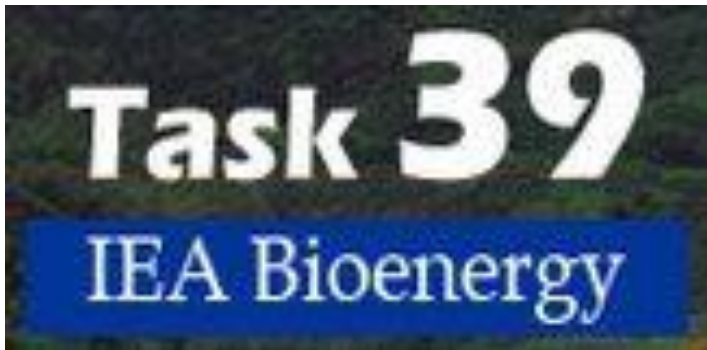


- Feasible to produce sufficient biogenic SAF from Austrian biomass
- But will directly compete with renewable gas production

Thank you

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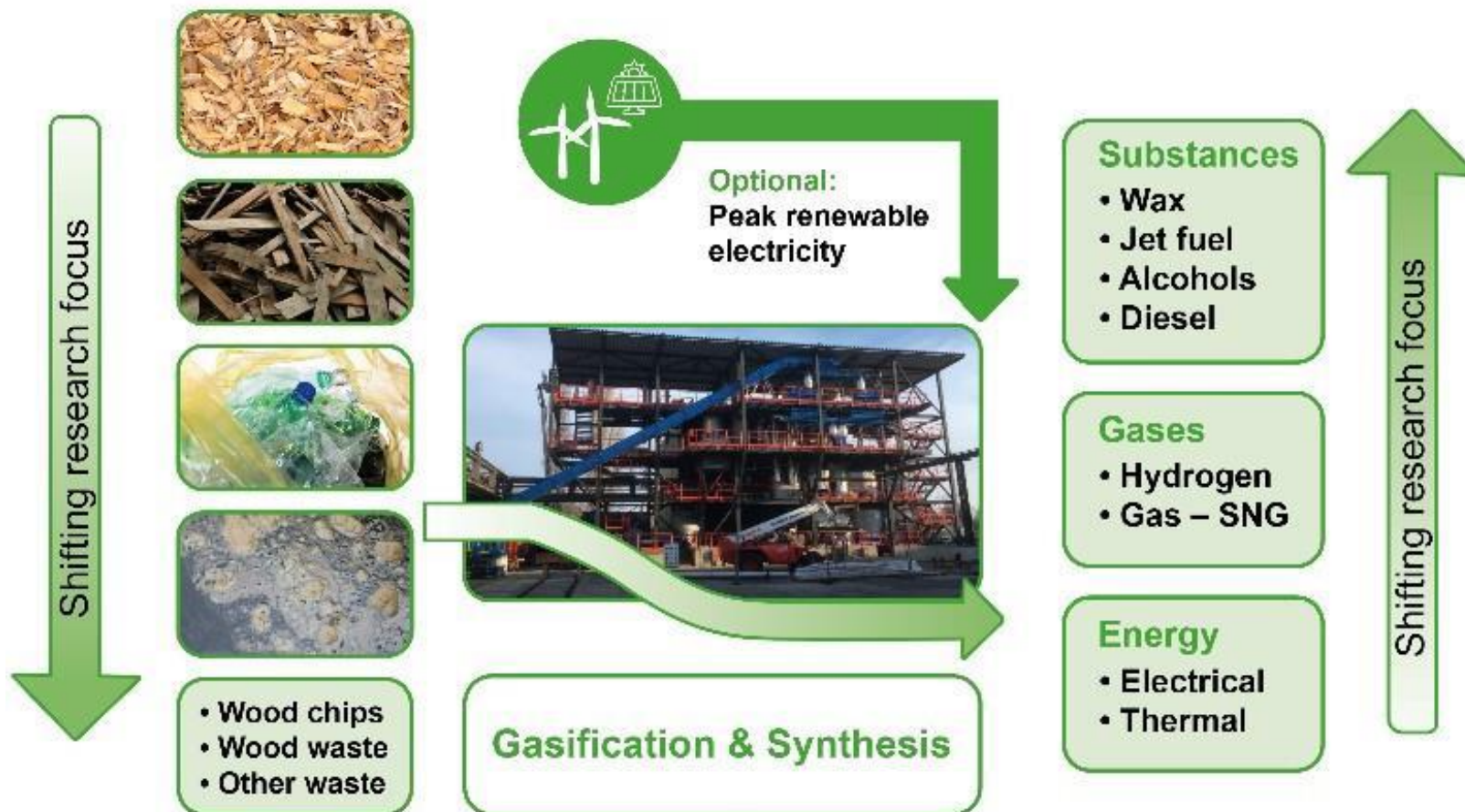
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Technology Collaboration Programme

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Syngas Platform Vienna - 1 MW pilot facility

Gasification & Synthesis: State of Research



SAF-Beimengungsverpflichtung (volumetrisch)

	Vorschlag EU Kommission 2021	Position EU Rat 2022	Position EU Parlament 2022
2025	2%	2%	2%
davon PTL	-	-	0,04%
2030	5%	6%	6%
davon PTL	0,7%	0,7%	2%
2035	20%	20%	20%
davon PTL	5%	5%	5%
2040	32%	32%	37%
davon PTL	8%	8%	13%
2045	38%	38%	54%
davon PTL	11%	11%	27%
2050	63%	63%	85%
davon PTL	28%	28%	50%