

National Development Plan Alternative Aviation Fuels

*Basic concepts for a German deployment strategy
- Feedstocks –*

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Federal Mobility and Fuels Strategy

- The Mobility and Fuels Strategy of the Federal German Government calls for a „**National Development Plan Alternative Aviation Fuels**“
- aireg suggests following items for the Development Plan to follow:

1. Provision of Feedstocks:

Pilot projects and risk minimization

2. Biorefineries:

Location scouting and investment support

3. Market Readiness:

Reduction of margins and upscaling



Provision of Feedstocks – goal: risk minimization

Status quo:

- Financing of biomass projects is too often hampered by investment risks
- Security of supply as a policy goal is underrated

Suggested abatement / mitigation measure:

- Lowering of investment risks (country and climate risk) through publically financed and scientifically conducted pilot projects

Realization:

- *e.g. extension of the scope of the German Raw Materials Agency (DERA) to include biomass as a strategic resource*
- Goal: bioenergy task force to identify, organize and finance feedstock trials

Deliverables:

- Selection of biomass projects with predictable success rate
- Bilateral gov't agreements on production and export criteria
- Clarification of market potential of by-products
- **Costs: ca. 30 Mio. € over a 10-year timeframe**





Provision of Feedstocks – structure of DERA bioenergy task force

DERA's mission statement:

„The German Raw Materials Agency (DERA) is the center of competence for the feedstock industry and the central platform for information and consulting on mineral and energy resources for the German Economy.“

Comparison of aireg goals and DERA's mission

aireg goal	DERA's mission	Compatibility
Financing of biomass trials	exploration support program	
Investment guarantees for biomass projects	Investment guarantees for exploration	

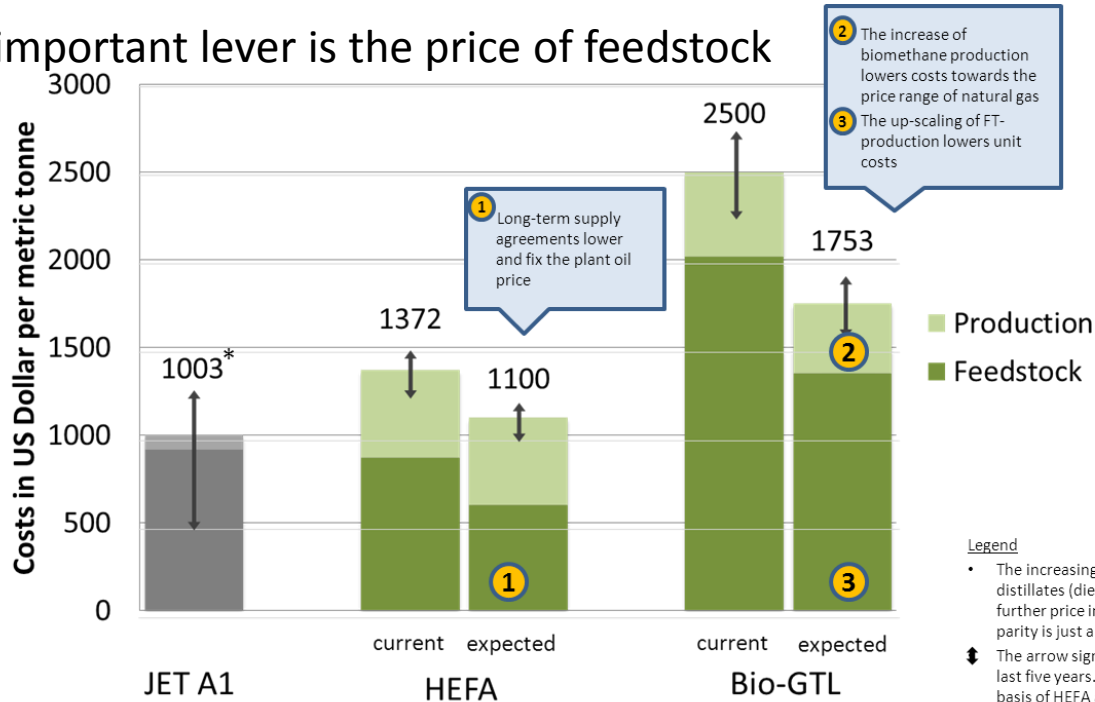
Possible structure and competencies of DERA bioenergy task force

Financial Support	Country Expertise	Co-Financing	Consulting	Demand
				

Market readiness – enhancing competitiveness

Current price differences prohibit an increased usage of alternative aviation fuel

- The aforementioned measures contribute to lowering the high price of alternative aviation fuel
- The most important lever is the price of feedstock



Legend

- The increasing demand, especially for middle distillates (diesel, jet fuel) is probable cause for a further price increase of fossil fuel. Therefore price parity is just a matter of time.
- ⚡ The arrow sign shows the price range of Jet A1 in the last five years. The costs of biogenic jet fuel on the basis of HEFA and Bio-GtL is given a bandwidth of +/- 10% on the basis of aireg's cost calculations.

Thank you!

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