

New Energy Area

From Research To Market Implementation In Bioenergy

A photograph of a solar tower (CSP) system. A large, spherical receiver is positioned in the center, surrounded by a heliostad (field of mirrors) that reflects sunlight onto it. The sun is visible in the sky, creating a bright lens flare effect on the receiver.

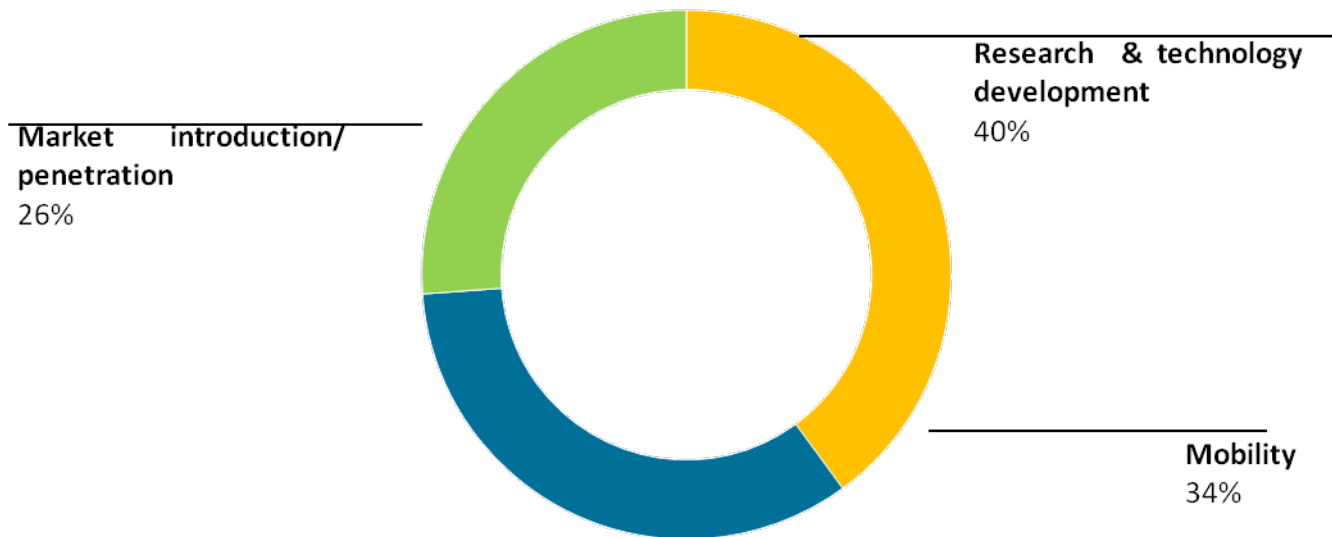
Theresia Vogel, Elvira Lutter
IEA Bioenergy Conference 2012

We are a fund of the Austrian federal government

- **Supporting** the government in
 - achieving the national **climate targets**
 - developing and implementing **national energy and technology strategies**
- Responsible for development of trend-setting **concepts** and **support programmes**
- **Central point-of-contact** and funding organisation in the innovation system

The power of facts: A retrospective view

6 years | 43,000 projects | € 730m funding |
€ 1.82b investment | **5.8 €/tCO₂ reduced**

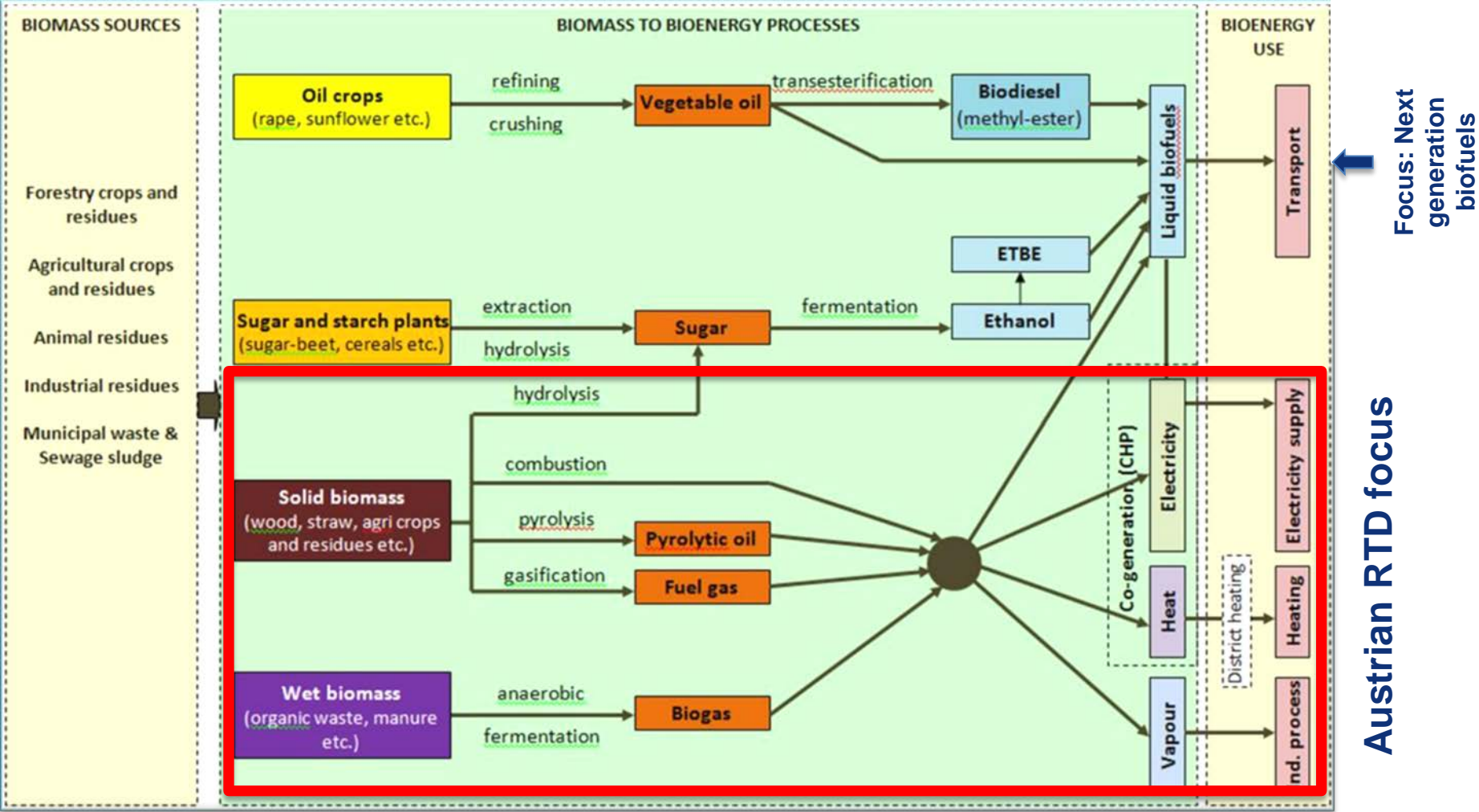


Important target: Affordable Greenhouse Gas Mitigation with Bioenergy technologies in/from Austria

- Contribution towards meeting the **energy, climate and technology policy targets** of the Austrian government
- Increase of the **affordability** of renewable energy and innovative energy technologies
- Development and safeguarding of **technological leadership** and **international competitiveness**

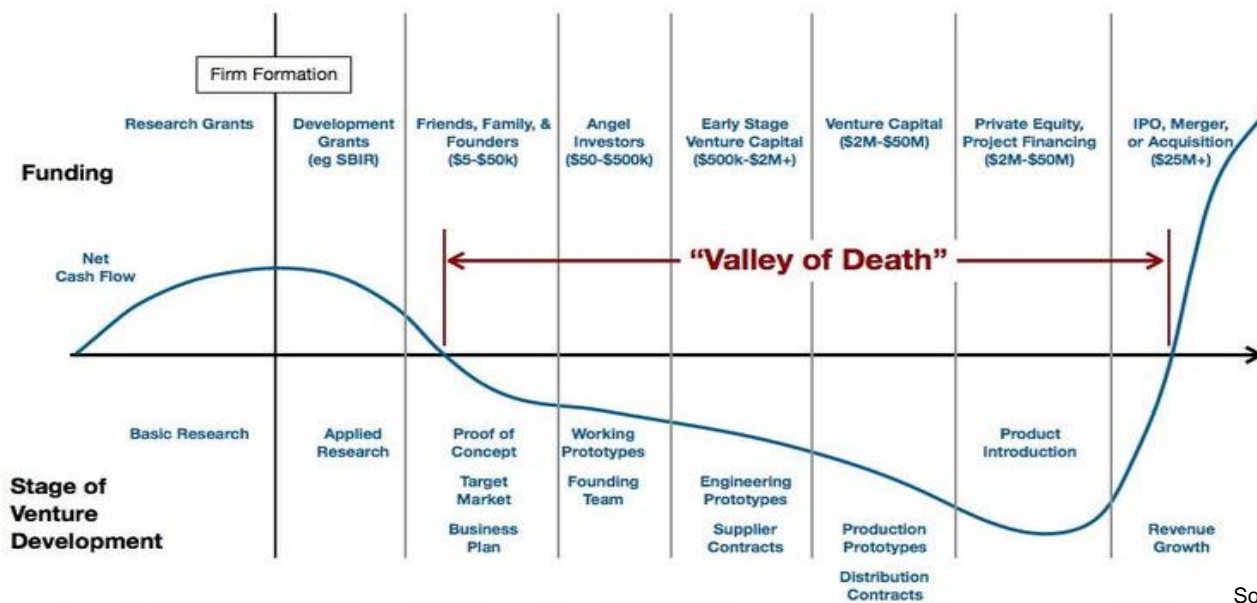
Bioenergy keeps the world moving!

- **10% of world energy consumption**
- **Main contributor to the EU 2020 target:**
57% of the RES target (134 Mtoe) by 2020 from 56% of RES (85 Mtoe) in 2010
- More **evenly distributed** over the earth's surface than finite energy sources
- **Alternative to fossil fuels** and key option to mitigate greenhouse gas emissions
- BUT: Production and use may be **ethically complex**



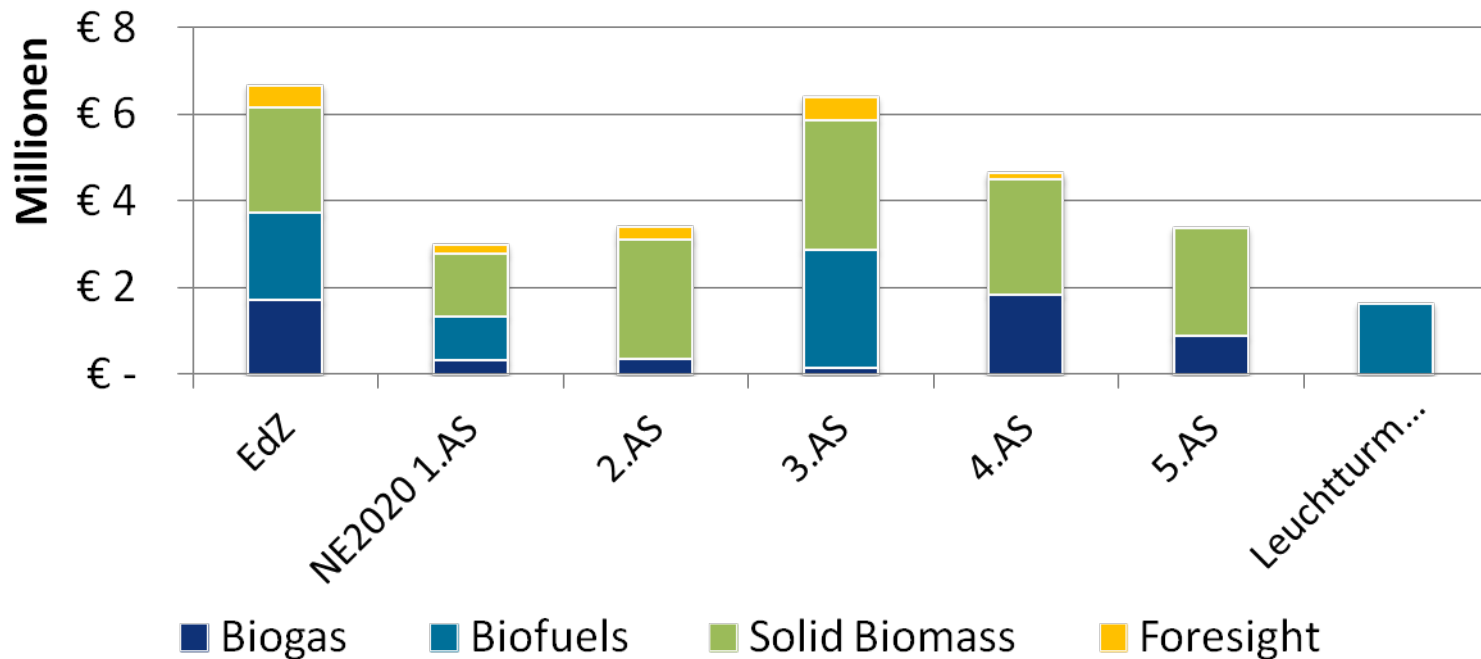
Our vision: Accelerate innovation

Several potential energy technologies remain dormant in the laboratories



Bioenergy Research: A Retrospective View

97 projects | €21m funding | €51m investment



Research alone does not make an energy transition!

Our approach on the market

- Intermediary impulse for market entry of new technologies → **Shorten lead time from research to market**
- High density of regional **testbeds** → 2m. Austrians in 83 *Climate and Energy Regions* experience energy transition
- Market stimulation → **Cost reduction**
- Home market is not sufficient! → **Objective: Export**
- **Increasing technology competence!**

A successful energy transition needs systematic change

Cooperation of all actors instead of solo effort

- Awareness, socio-economic change, **energy-food competition**
- **Synergies** of material/energetic use
- **Stable infrastructure** and sufficient **storage** capacities
- **Financing and need for PPP-models**

Thank you!

www.klimafonds.gv.at

