

Bioeconomy: A Vision for Austria

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Motif



Global

- Combat Grand Societal Challenges of the 21st century
- Translate Sustainable Development Goals into actions
- Provide viable solutions for increasing resource scarcity
- Introduce a sustainable, smart agricultural production

Austria

- Break persistently high GHG emissions levels
- Reduce high import dependency on coal, gas and oil
- Use high natural resource potential in Austria and the Danube region
- Retain large parts of the value cycle in Austria
- Export leading-edge technology products and services

Evolution



Since 2011

The subject area "Biobased Industries" has been developed as part of the RTI initiative "Production of the Future" by the Austrian Ministry for Transport, Innovation and Technology – later accompanied by a Strategy for Bio-based Industries (2014)

February 2013

Christian Patermann highlights the importance of formulating national bioeconomy strategies at "Science meets Business" in Vienna (Austria)

November 2013

BIOS Science Austria and AAER present their comprehensive Bioeconomy Policy Paper. Soon after that, the Austrian Government acknowledges the importance of bioeconomy in its Work Programme 2013-18

September 2014

Interministerial RTI-WG 2 together with BIOS Science Austria drafts Bioeconomy Status quo Report for the Austrian RTI-Task Force

June 2015

The interministerial RTI-WG 2 Bioeconomy Status quo Report was subject to consultation by stakeholders at national level

Definition



Bioeconomy benefits from the use of renewable, natural resources to provide food, feed, energy, goods and services.

- > to generate new economic growth
- > to create new jobs
- > to reduce dependency on fossil resources
- > to promote innovation

Economic Data at present

=€ 14.6 bn

=8 % of GDP

230.000 jobs

Vision



- Longterm transformation towards a knowledge-based sustainable economic system
- Match national strategies on the European level
- 3-dimensional societal change towards Eco-social Sustainability
- From Value Chain to Value Cycle cascade use of biomass
- Cross-linking of sectors transdisciplinary approach
- Amalgamate Energy Transition, Bioeconomy and Industry 4.0
- Austria as Bio-Innovation Leader
- Boost regional and rural economy
- Attract Foreign Direct Investment for Bio-Innovation infrastructure

Realization



- Raising awareness and creating political consciousness
 - bottom-up / top down
- Identifying of core competencies and potential capacities
- Referring to societal responsibility and added value
- Adjusting to European and international development
 - Benchmarks
- Increase of biomass production sustainable intensification
- Reduction of structural deficits
- Network, Joint Projects, Capacity Building education on all levels towards bio-based economy



Thank you for your attention

http://www.bioeconomy-austria.at/



Bioeconomy: Consultation Results & Next Steps

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Current process of implementation BIOECONOMY AUSTRIA INNOVATION KREISLAUF WIRTSCHAFT

- RTI-Status Report on Bioeconomy
- Open Consultation June/July 2015

Stakeholder contacts: > 400

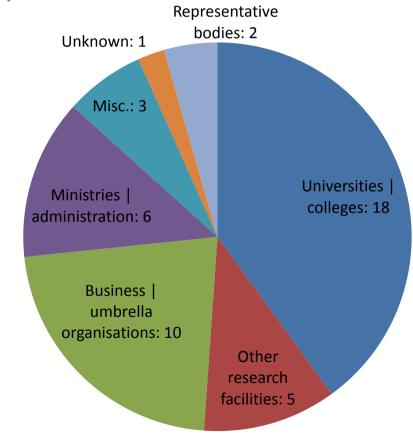
Period: 30 d

Respondents: 45

Comments: 306

Votings: 244

Consensus-oriented response



Consultation: Main Findings



- Sustainability 3 dimensions
 - consider & include sustainability into the definition
 - assessments need to be integral part in all fields of action
 - reflect socio-economic and environmental dimensions, in addition to technological innovations
- Regional development
 - > enable re-industrialisation of rural areas (regionalisation)
 - ➤ assume thematic leadership → global marketing options
 - create comprehensive national approach
- Cascading use of biomass and waste streams
 - Integrated material and energetic use
 - Promotion of cascading use strengthens competitiveness

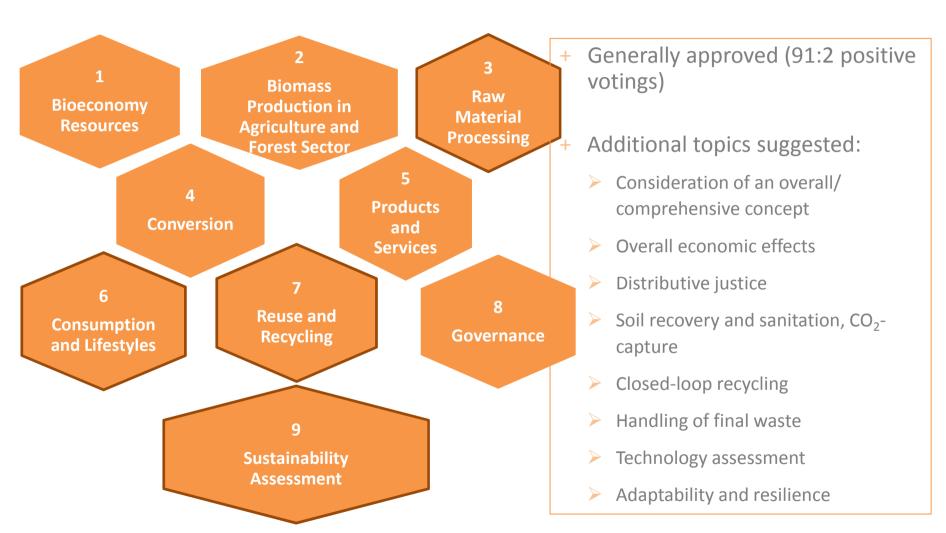
Suggested Research Areas





Suggested Research Areas





Consultation: Policy Recommendations



- (1) Bioeconomy-specific research programme
- (2) Thematic research-calls
- (3) Stress social scientific and cross-cutting research in bioeconomy research programmes

(4) Additional measures

- Include bioeconomy relevant topics in education and training
- > Broad cross-discipline debate on bioeconomy
- Awareness raising

Next Steps



 Evaluation of international feedback on presented consultation results → round table discussion

- Stakeholder dialogues considering specific topics
- Formulation of RTI-Strategy for Bioeconomy
- Vision: Development of a National Bioeconomy Strategy
 - Establishment of a national Bioeconomy Panel
 - Establishment of a national Bioeconomy Observatory / Focal Point for international exchange



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