

# Social Sciences and Humanities (SSH) at BEST

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AREA 3 - Sustainable Supply and Value Cycles

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## Introduction

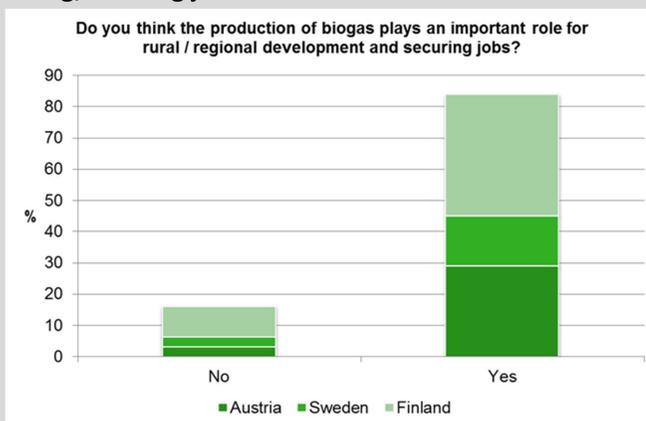
Considering people and society when doing research has become increasingly important. If people do not use and society does not accept and see the benefit of (new) technologies, research and development are obsolete. Therefore, BEST addresses these topics at individual level, i.e. end-users and at societal level. Here, we present selected results from 4 projects in which BEST covered societal aspects.

### BIOFEGG<sup>1</sup> – Social Acceptance

**Objective:** Investigate socio-economic impact and social acceptance of biogas production and upgrade

**Methods:** Literature search; stakeholder survey in AT, FI and SE

**Selected Results:** Almost 85 % of survey participants think that the production of biogas plays an important role for rural and regional development as well as for securing/creating jobs.



Stakeholders in Austria, Finland and Sweden were quite optimistic that the social acceptance of biogas can be increased by improving technical systems such as upgrading methods and by intensifying communication and dissemination.

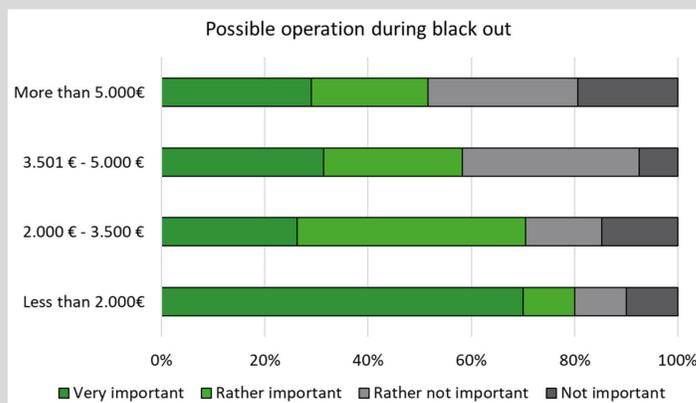
<sup>1</sup>Biogas For Future Electric and Gas Grids

### MotivA<sup>3</sup> – End-Users' view

**Objective:** Investigate motives of end-user decisions for a specific RESS (Residential Energy Supply System)

**Methods:** Stakeholder interviews; quantitative end-user survey in AT

**Selected Results:** A low monthly net household income significantly increases the importance of little space requirement, but also of enabling an autonomous life and the possibility of operating the RESS during a black out.



Regarding clustered motives, environmental aspects were considered most important by the respondents, even more by women. A paper on that study has been published in June 2023 - follow the QR Code.



<sup>3</sup>Motive Analysis Regarding the Choice of Residential Energy Supply Systems with a Focus on Gender and Intersecting Aspects

### CLARA<sup>2</sup> – Risks Related to Society

**Objective:** Analyse risks related to society when big plants like in the CLARA approach are operated

**Methods:** Literature search; stakeholder interviews; online stakeholder workshops

**Selected Results:** 15 risk clusters related to society could be identified. These were related to the areas (I) socio-economic factors, (II) political and legal framework and (III) social acceptance (including market acceptance).

#### Risks identified and grouped in 15 clusters

1. Dependencies in supply chains	9. Social standing and political influence
2. Social sustainability risks	10. Changes in regional/local structures
3. Socially undesirable distribution	11. Lack of participation in the decision process
4. Uncertainties (political, legal)	12. NIMBY (Not in my backyard)
5. Economic profitability without subsidies	13. End Users acceptance
6. Plant approval procedures	14. Constant Feedstock Supply
7. Concerns about negative impacts on environment	15. Bottlenecks in plant operation (e.g. pelletization process)
8. Knowledge gap in society	

In particular, the different aspects of social acceptance pose risks with high likelihood of occurrence and severity. The so-called NIMBY (not in my backyard) effect was also observed.

<sup>2</sup>Chemical Looping Gasification for Sustainable Production of Biofuels

### ETIP Bioenergy<sup>4</sup> – “Bioenergierat”

**Objective:** Maximizing the societal benefits of successful R&I activities in the field of renewable fuels and bioenergy, in addressing key issues related to the Water-Energy-Food (WEF) nexus, just transition, and social innovation.

**Methods:** Citizen Panels in AT, BG, IT and SE. 20 - 30 citizens per country elaborate 10 common visions on bioenergy with a time horizon of 2055. Referring to the Austrian “Klimarat” the citizen panel was named “Bioenergierat” for Austria as both involve citizens to create a climate friendlier future.

The citizen panel will be held in July 2023.



<sup>4</sup>European Technology and Innovation Platform Bioenergy