

We aim to support your work at its best. Therefore we combine scientifically acknowledged methods for techno-economic and environmental analysis. Analysis methods may include:

- **Life Cycle Assessment** based on ISO 14040/14044
- **Carbon Footprint** based on ISO 14067
- **Cost Benefit Analysis**
- **Eco-efficiency assessment** based on ISO 14045
- **Material & energy flow analysis**
- **Site planning** (infrastructure analysis, feedstock availability, screening of regional markets)
- **Renewable resource availability analysis**
- **Techno-economical evaluation of technologies and products**
- **Economic and environmental differences between production chain options**

For providing holistic process analysis, we are applying well-established tools:

- **GaBi Professional Software & Database** (thinkstep)
- **GEMIS database** (Institute for Applied Ecology)
- **Ecoinvent database** (Swiss Centre for Life Cycle Inventories)
- **SuperPro Designer®** process simulation (INTELLIGEN)
- **Portfolio of economic & energetic performance data of conversion processes & products**

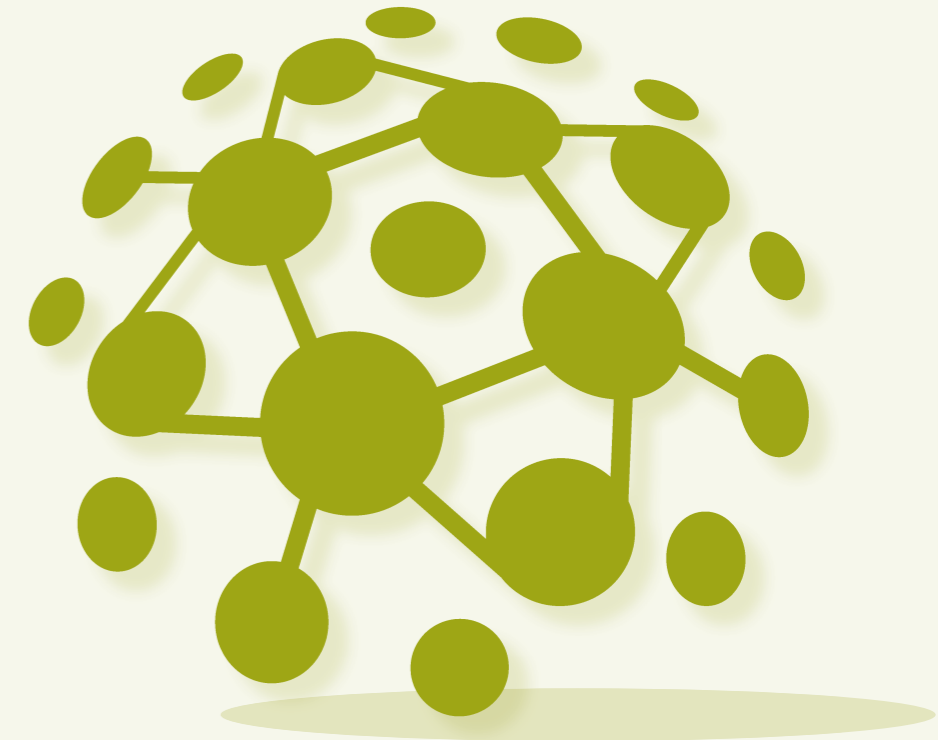
The applied portfolio of methods and tools will be designed specifically for your optimization problem

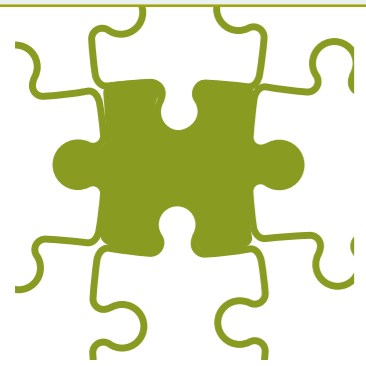
**For information about process assessments please contact:**

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**Your partner**  
for multidisciplinary **PROCESS ASSESSMENT**





The Energy Institute at the Johannes Kepler University Linz is a highly distinguished project partner, whenever multidisciplinary knowledge of more than one scientific field is demanded in research. The Energy Institute's three departments are: Energy Economics, Energy Law and Energy Technologies. The combination of these three core disciplines allows comprehensive analyses and accounts for all aspects of future-oriented energy topics.

Performing an accurate and robust process assessment to quantify the environmental and economic impacts associated with proposed products and services parallel to technology development and product innovation is becoming obligatory to meet the requirements of market and society on research & development. In many cases the research focus is technology driven, focusing expertise and results on producing favorable financial returns at the end of the day. The Energy Institute experts with academic background can assist your organization by preparing process assessment studies surrounding your innovation or established products enabling your staff to focus on developing feasible technology.

The academic staff of the Energy Institute at the Johannes Kepler University is equipped with process analysis and life cycle assessment skills based on the highest level of knowledge. We assist our partners to

- Improve energy efficiency
- Reduce environmental bottlenecking
- Comply with legal framework and specific regulations
- Identify green carbon credit opportunities
- Decrease raw material usages and wastes
- Identify process adjustments yielding the largest environmental impact
- Identify renewable feedstock availability

The technical department provides a strong know-how in holistic process assessments especially in the following areas:

- Renewable energy technologies
- Biotechnological processes
- Fossil energy technologies
- Smart grids
- Energy storage
- Energy efficiency measures

This acquired expertise is readily transferable to versatile topics, processes and products.

