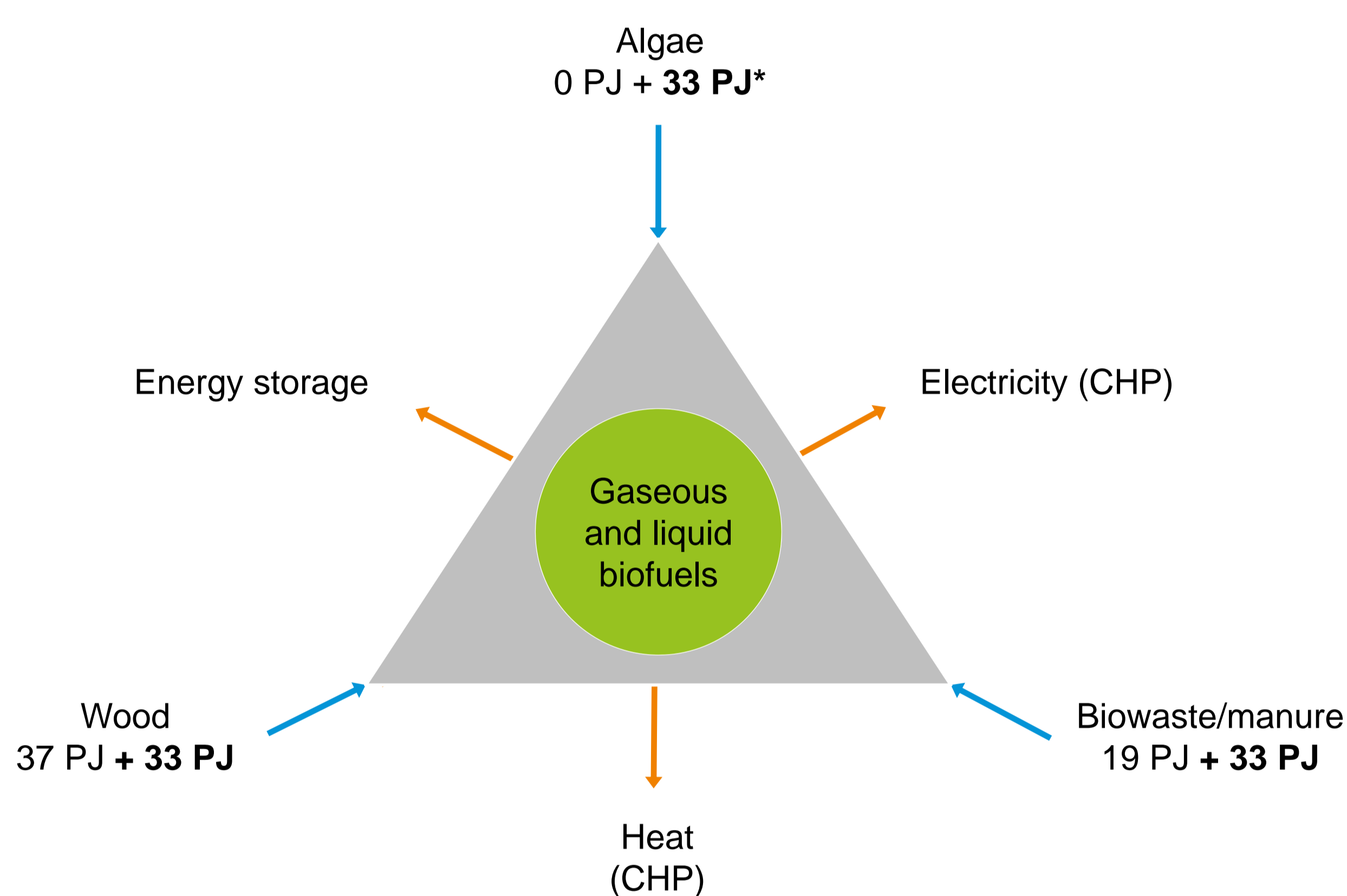


Biomass for Swiss Energy Future

The Swiss Competence Center for Energy Research: Biomass for Swiss Energy Future (SCCER BIOSWEET) is a national network of 15 Academic Research Partners and more than 50 Cooperation Partners from public and private sector organizations. We focus on the engineering and implementation of biochemical and thermochemical biomass conversion processes with a high level of technological readiness and sustainability.

Vision

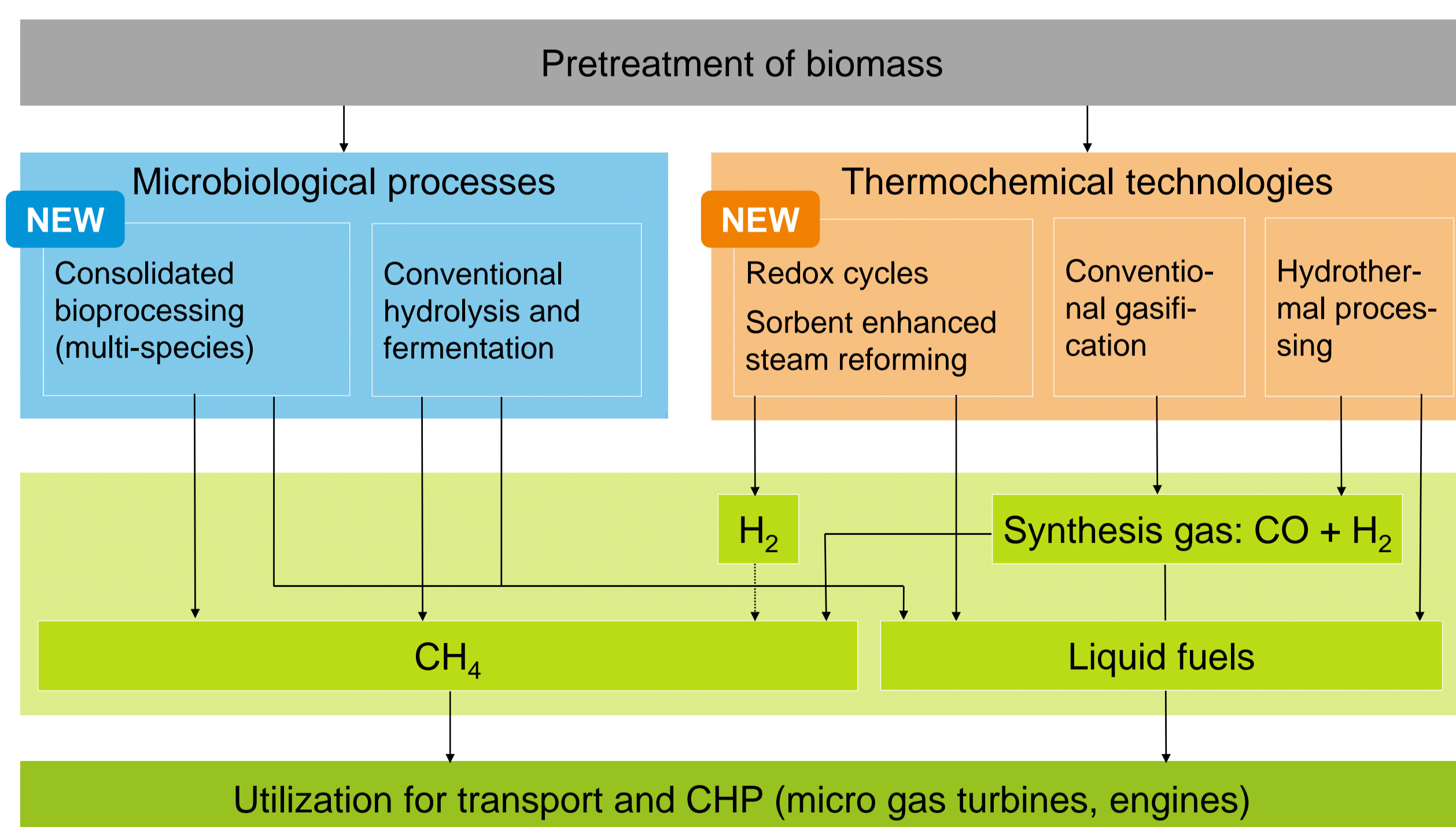
We postulate the “+100 PJ” bioenergy vision for the Swiss Energy Strategy 2050: woody biomass, biowastes and manure, as well as the emerging huge potential of algae are seen to contribute additional 33 PJ each. This is roughly a doubling of the current energy supply from biomass.



*production mainly outside Switzerland

Biomass Conversion Routes

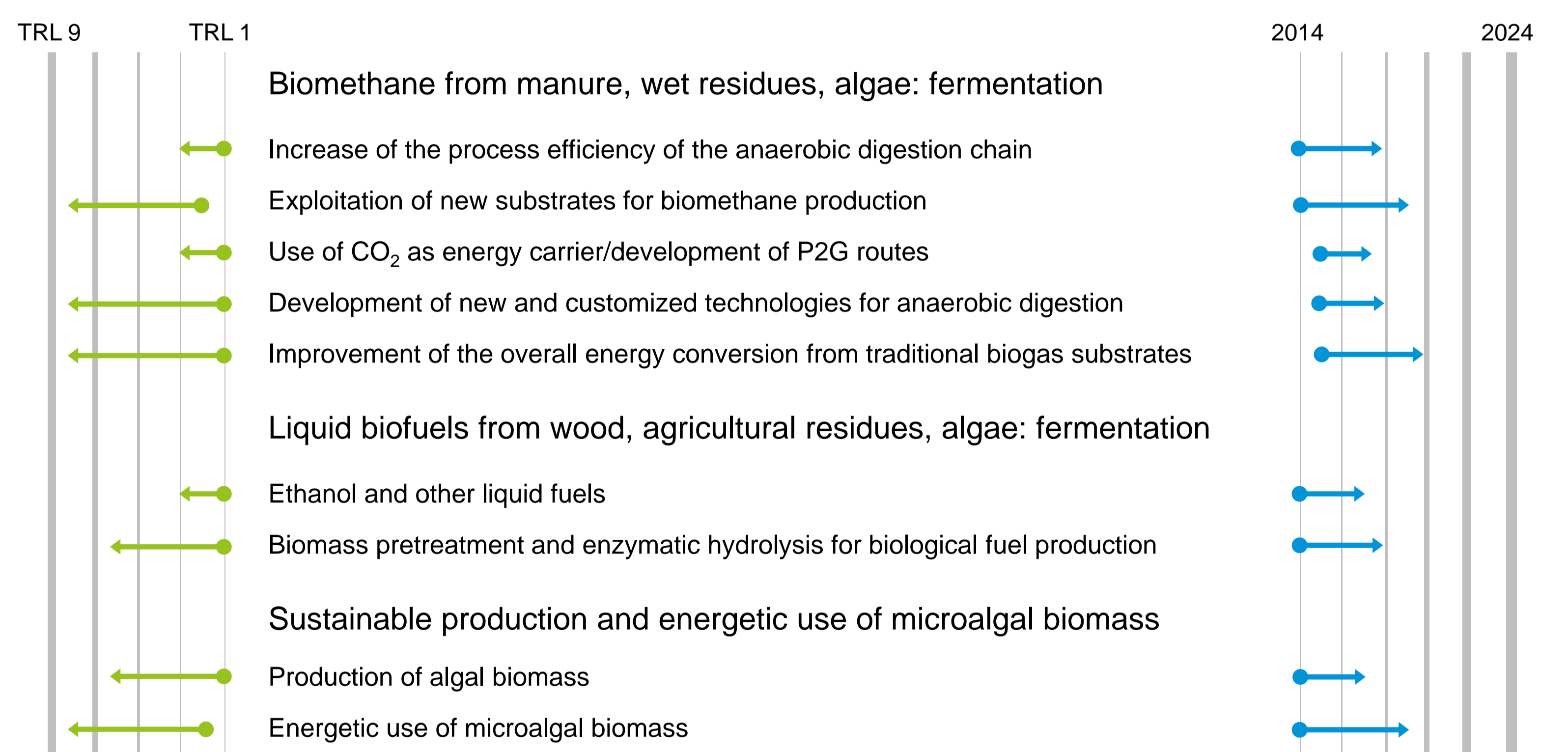
We will reach our vision by promoting new and conventional biochemical and thermochemical conversion routes. The technological goal is to push the current conversion and efficiency limits significantly to exploit Swiss biomass resources to the highest sustainable extent.



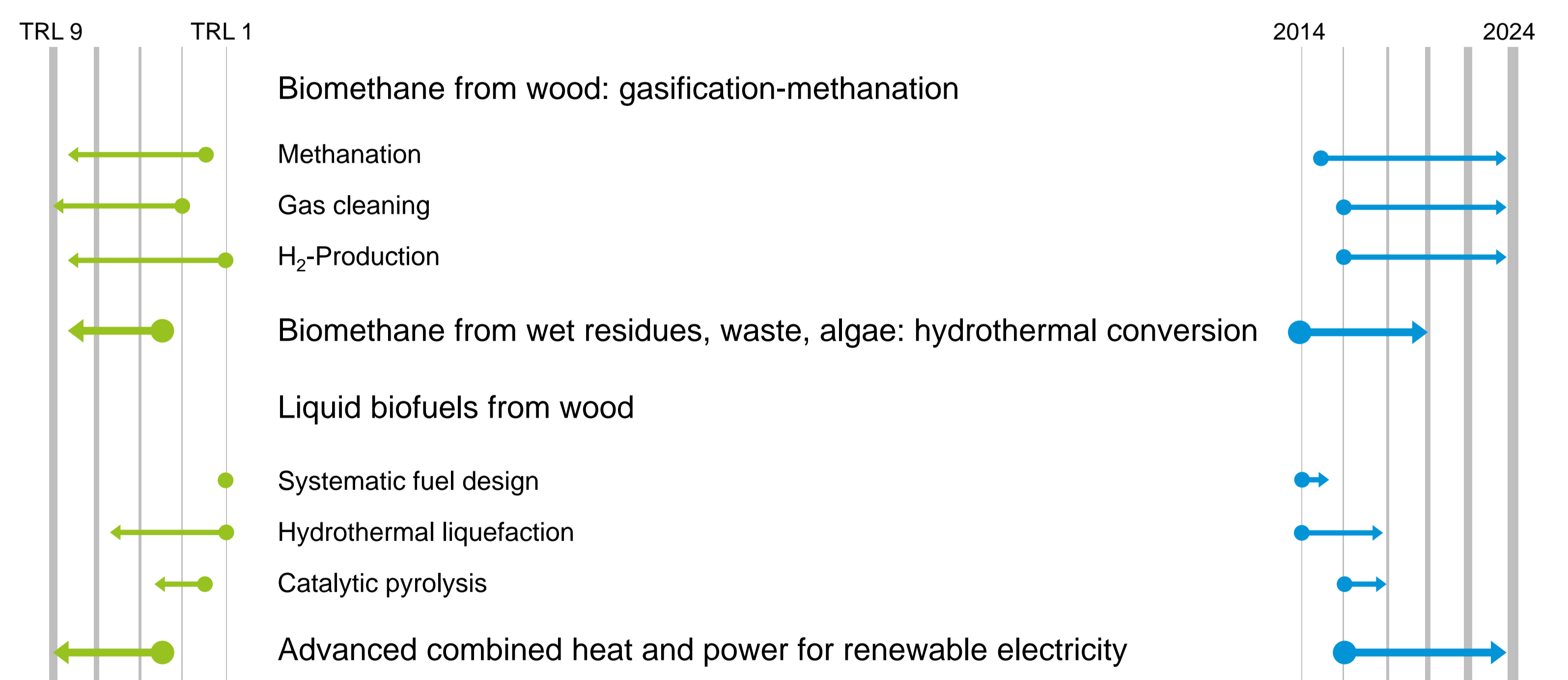
Innovation Roadmap

The main research areas covered by the SCCER BIOSWEET are: gas and liquid energy sources from biomass, use of biogas to generate electricity and heat, and availability of biomass. The activities are structured in three work packages.

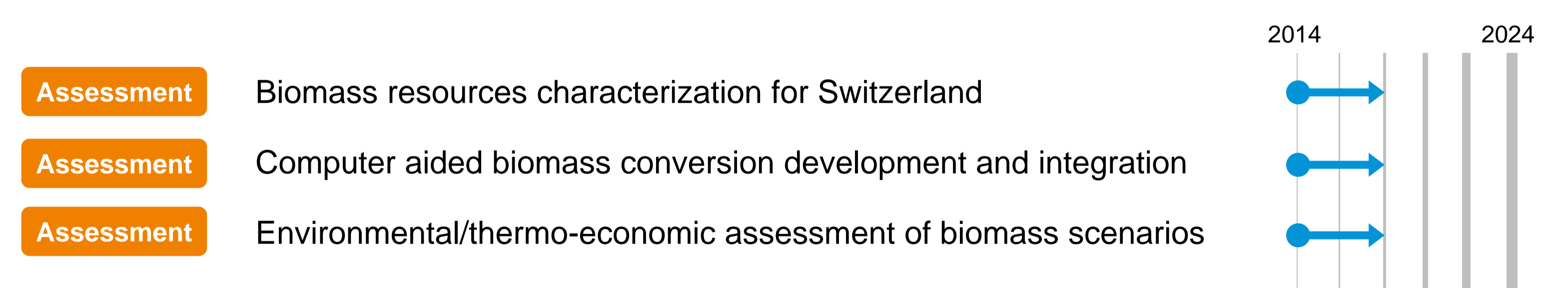
Biochemical fuels and power



Thermochemical fuels and power



Assessment and biomass availability



Technology Readiness Level (TRL)

1 = Basic research, 3 = Proof of concept, 5 = Laboratory test, 7 = Pilot plant, 9 = Commercial plant

Academic Research Partners

