

PRODUCT DESCRIPTION / ENGLISH

Power, heat and storage. Plan for greater independence.

LCG EnergyCELL is the development concept for a modular energy centre. Suitable biogenic fuels, optional solar PV and storage are intended to support a high share of on-site power and heat supply, tailored to local demand.



Symbolic illustration: LCG EnergyCELL in an agricultural setting.
Right: symbolic illustration.

01 Understand demand

Power and heat demand, operating hours and existing equipment guide the design. Potential uses include farms, hotels, businesses and neighbourhoods.

02 Combine modules

Solar PV, batteries and thermal storage may be included according to the project. Cooling and BlueVANTAGE water generation are further options under consideration.

03 Plan self-sufficiency

A possible off-grid mode depends on the load profile, generation, storage and a reliable fuel supply. Suitable controls and protection must be designed and tested.

How independent could your site become?

We seek suitable pilot sites and implementation partners. Please share annual consumption, existing systems and your goal: increased self-supply, backup for selected loads, or assessment of possible off-grid operation.

Under development. Self-sufficiency is a project-specific planning objective, not a blanket guarantee. Output, fuels, emissions, approvals and economics must be assessed; backup and off-grid operation require a specifically designed and tested system.