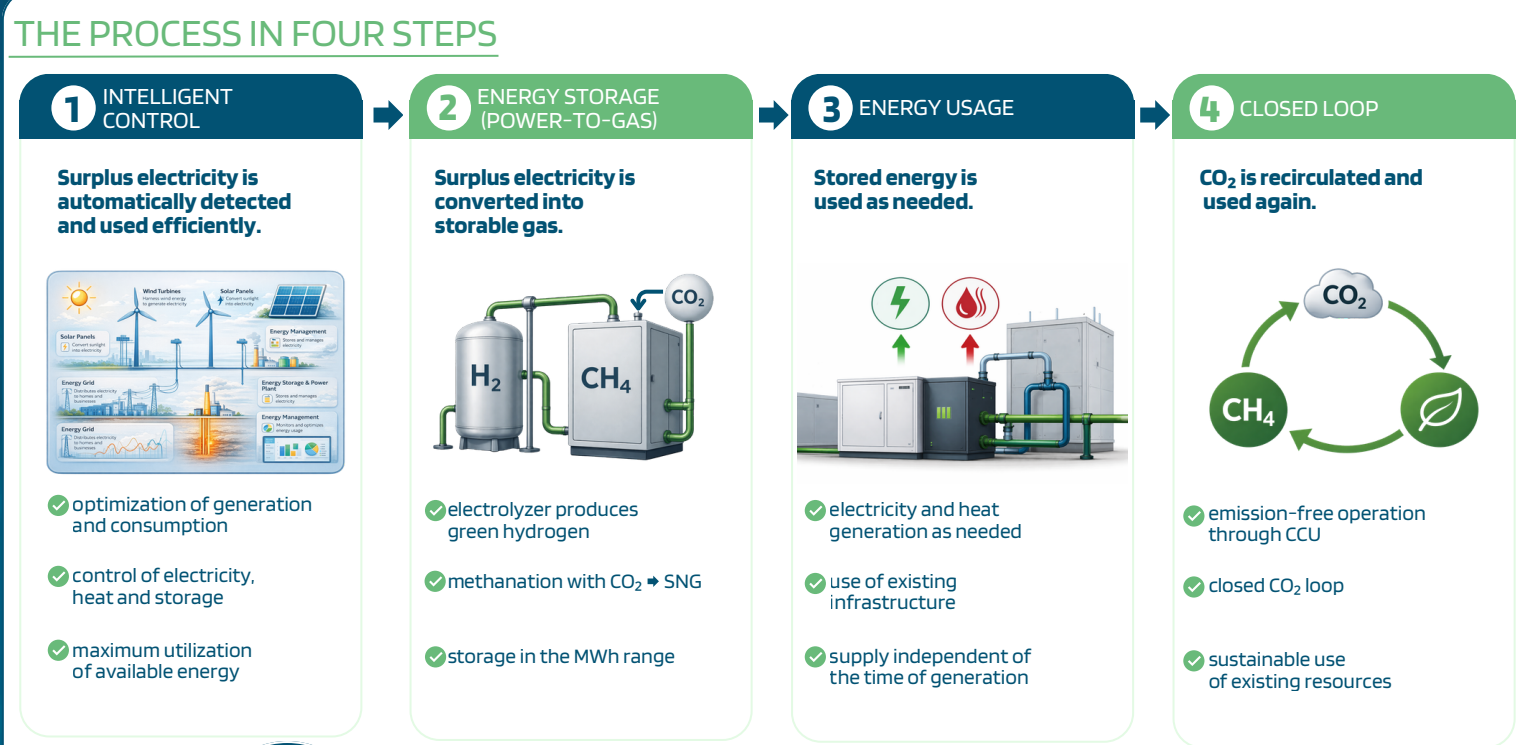


This is how your energy supply works with power-to-gas



You use your energy when you need it, not only when it is generated.



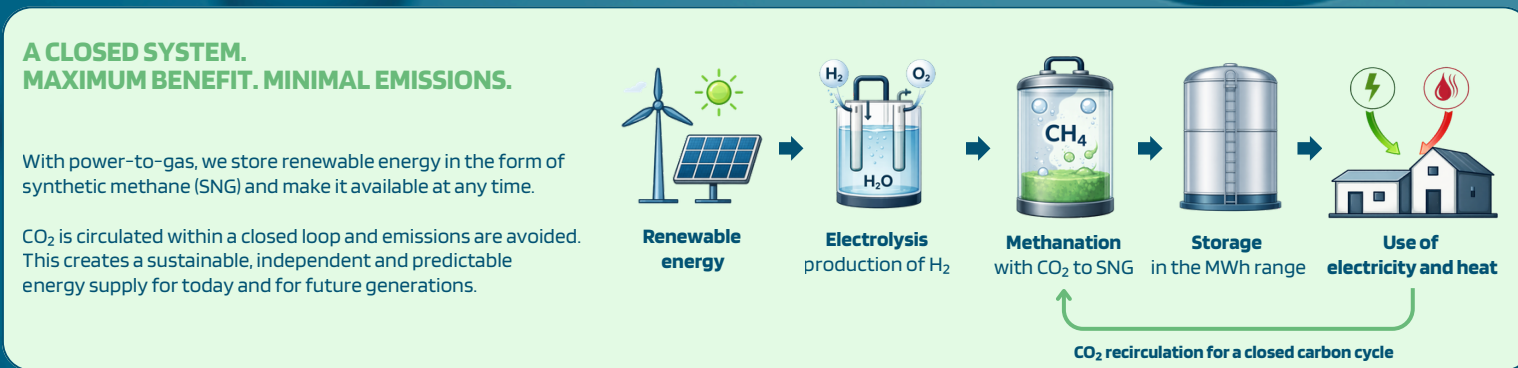
UP TO 85% OVERALL EFFICIENCY Through the combined use of electricity and heat.

Energy that you control - not the market

Stable costs. Secure supply. Emission-free operation.

We convert renewable surpluses into **storable gas**.

For your long-term predictable energy supply.



- Future-ready energy supply for:**
- residential districts and housing complexes
 - commercial properties and industry
 - municipalities and public buildings
- sustainable
 - predictable
 - crisis-resistant

Now find out how independent your site can become:

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 Kurt-Dunkelmann-Str. 2
 18057 Rostock (Germany)

<https://cytok.de/en>

[/company/cytok](https://www.linkedin.com/company/cytok)



System solutions for predictable energy supply



We implement decentralized energy systems for residential districts, commercial applications and energy-intensive sites.

CYTOK stands for an energy supply that combines economic efficiency, security of supply and climate protection.

Our systems integrate electricity, heat and storage into one unit and make surplus energy usable in the long term.

"The coming generations have a right to a livable planet! That is why we are passionately committed to clean and sustainable energy for everyone!"



CYTOK hydrogen pirates

"This project proves that such innovations can work without government regulation. With a pioneering spirit, a path has been voluntarily taken here that shows: it is possible. You just have to have the courage - and that is exactly what this project stands for."
Frank Doods
 State Secretary of Lower Saxony

<p>use of your own energy instead of purchasing</p> <p>reduce costs, strengthen independence</p>	<p>integration into existing infrastructure</p> <p>proven technology, ready for rapid deployment</p>	<p>year-round availability of electricity and heat</p> <p>reliable through every season</p>	<p>reduced dependence on the energy market</p> <p>stability in volatile times</p>
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PROJECT DEVELOPMENT AND PLANNING

From the initial idea to a validated decision

Do you want to make your energy supply predictable, instead of constantly having to react to market prices?

<p>CONCEPTS AND FEASIBILITY</p> <ul style="list-style-type: none"> Assess: what is economically viable at your site Clarify: investment, operating costs, and funding opportunities at a glance Evaluate: reliably assess technical and regulatory requirements Decide: a clear basis for investors, operators and planning 	<p>SIMULATION AND ECONOMIC VIABILITY</p> <ul style="list-style-type: none"> Understand: how your energy system operates in practice Compare: scenarios for costs, autonomy, and security of supply Calculate: payback period and long-term savings potential Secure: make decisions based on real data
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You make your energy decisions based on reliable data.

"As a leading technology group, ABB is always looking for partnerships. The CYTOK concept, which combines both technical and financial aspects, has convinced us - which is why we want to collaborate."
Dr. Ricard Petranovic
 Business Development | ABB AG

You turn energy into a predictable factor instead of a risk

Our Power-to-Gas systems make renewable energy surpluses storable and available at any time - for maximum independence and predictable costs.

Residential Complexes and Districts



Stable energy supply for entire districts, independent of price fluctuations.

- use your own energy instead of buying it at high cost
- ensure year-round energy supply
- keep operating costs stable in the long term
- reliably meet climate protection requirements

CYTOK Power-to-Gas Plant



From a dependent energy consumer to a self-sufficient supplier

Site with high energy demand and existing PV surpluses.
 Solution: Storage and use of your own energy directly on site.

Result

- replacement of fossil energy fuels
- significantly reduced energy costs
- maximum utilization of your own energy
- long-term stable supply

"Our hotel buildings, rooms, gastronomy including the kitchen and the water ski facility are fully supplied with renewable electricity. The apartments at the riding stable and our administration are also connected to the power plant."
Holger Junk
 Owner | Bernsteinsee Hotel

Commercial and Industry



Energy as a predictable variable, not a source of uncertainty.

- make energy costs predictable and manageable
- increase independence from volatile markets
- continue to use existing infrastructure efficiently
- ensure supply even as demands increase

Transformation of the Energy Supply



Climate neutrality made predictable for energy-intensive sites

Energy-intensive site with complex requirements for security of supply and decarbonization.

- Our services**
- feasibility analysis for a climate-neutral energy supply
 - simulation of real load profiles and supply scenarios
 - development of an implementable transformation concept
- Further implementation**
- integration of the CYTOK container solution as the first implementation step
 - basis for scalable deployment in comparable energy-intensive applications

"After one and a half years of joint evaluation and simulation, we have proven that our project works. We see the potential of this technology as suitable."
Marion Oelke
 TGA Project Manager | HZDR