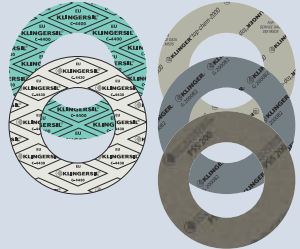
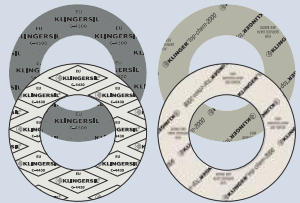
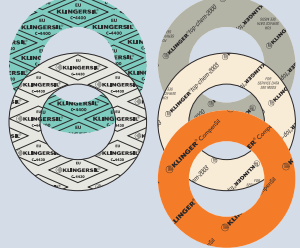
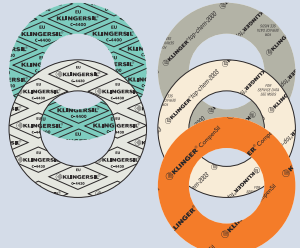
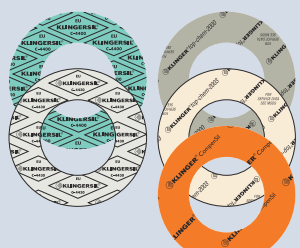


POWER-TO-X PROCESSES

Fields of application and suitable KLINGER products

Electricity generation through renewable energy Gaskets for steam and water turbines with supply and discharge lines and as corrosion protection between tower segments of wind turbines.	Gaskets KLINGERSIL® C-4400 KLINGERSIL® C-4430 KLINGER® top-chem 2000 KLINGER® graphit KLINGER® milam	
Hydrogen production through electrolysis Standard gaskets and housing gaskets in electrolysis systems for alkaline and acidic electrolysis processes as well as in PEM-electrolysers.	Gaskets KLINGERSIL® C-4500 KLINGER® top-chem 2000 KLINGER® top-chem 2006 KLINGERSIL® C-4430	
Distribution and storage Gaskets for tanks, pipeline networks and systems for gas storage in caverns. TA-Luft compliant. Gaseous and liquid physical state of the media.	Gaskets KLINGERSIL® C-4400 KLINGERSIL® C-4430 KLINGER® top-chem 2000 KLINGER® top-chem 2003 KLINGER® CompenSil	
Generation of methane Generation of methane and longer hydrocarbon chains from hydrogen and landfill and biogas. Here, processes supported by catalysis are used for chemical conversion in reactors, but also gas cleaning processes. Gaskets adapted to process and temperature.	Gaskets KLINGERSIL® C-4400 KLINGERSIL® C-4430 KLINGER® top-chem 2000 KLINGER® top-chem 2003 KLINGER® CompenSil KLINGER® milam	
Manufacture of e-fuels There are various processes for producing e-fuels (Fischer-Tropsch, Amonia-Synthesis, SNG-Synthesis, Sasol etc.) that support catalysis and are operated in the medium to high temperature range. Therefore, different types of gaskets can also be used here.	Gaskets KLINGERSIL® C-4400 KLINGERSIL® C-4430 KLINGER® top-chem 2000 KLINGER® top-chem 2003 KLINGER® CompenSil KLINGER® graphit KLINGER® milam	

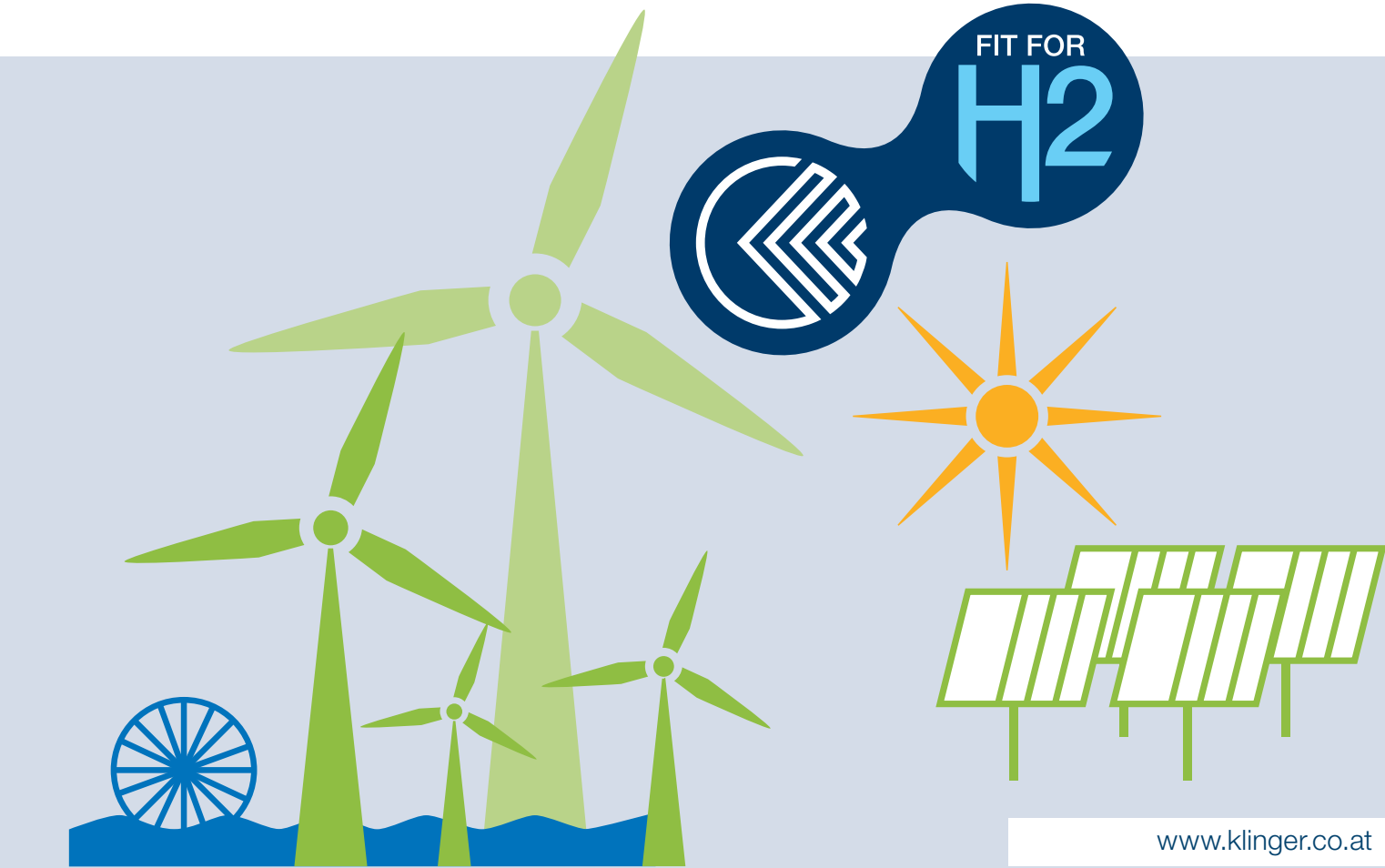
All information is based on years of experience in production and operation of sealing elements. However, in view of the wide variety of possible installation and operating conditions one cannot draw final conclusions in all application cases regarding the behaviour in gasket joint. The data may not, therefore, be used to support any warranty claims. This edition cancels all previous issues. Subject to change without notice.

Certified acc. to DIN EN ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018. Subject to technical alterations. Status: August 2023
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POWER-TO-X

Sealing materials
for all process stages



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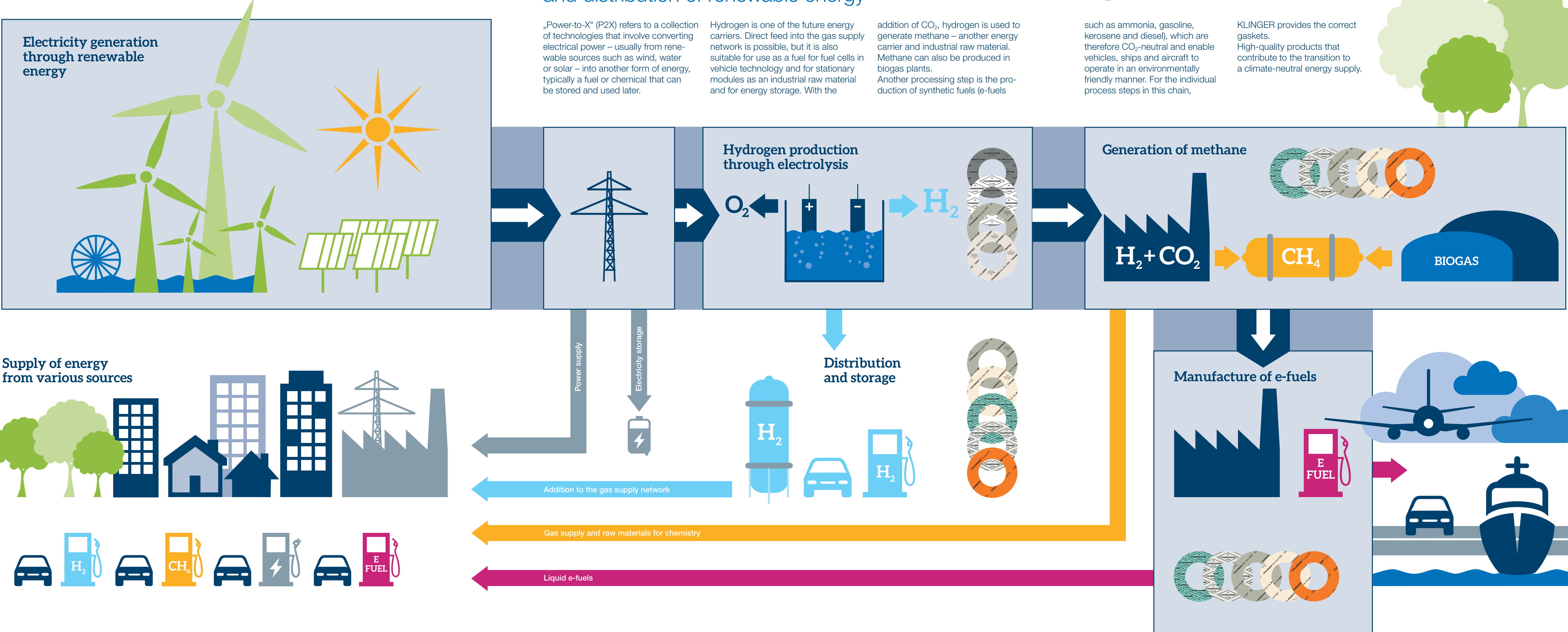
08/2023

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PROCESS STEPS POWER-TO-X

KLINGER – the best gasket for every step

KLINGER accompanies you in the production and distribution of renewable energy



„Power-to-X“ (P2X) refers to a collection of technologies that involve converting electrical power – usually from renewable sources such as wind, water or solar – into another form of energy, typically a fuel or chemical that can be stored and used later.

Hydrogen is one of the future energy carriers. Direct feed into the gas supply network is possible, but it is also suitable for use as a fuel for fuel cells in vehicle technology and for stationary modules as an industrial raw material and for energy storage. With the

addition of CO₂, hydrogen is used to generate methane – another energy carrier and industrial raw material. Methane can also be produced in biogas plants. Another processing step is the production of synthetic fuels (e-fuels)

such as ammonia, gasoline, kerosene and diesel), which are therefore CO₂-neutral and enable vehicles, ships and aircraft to operate in an environmentally friendly manner. For the individual process steps in this chain,

KLINGER provides the correct gaskets. High-quality products that contribute to the transition to a climate-neutral energy supply.

