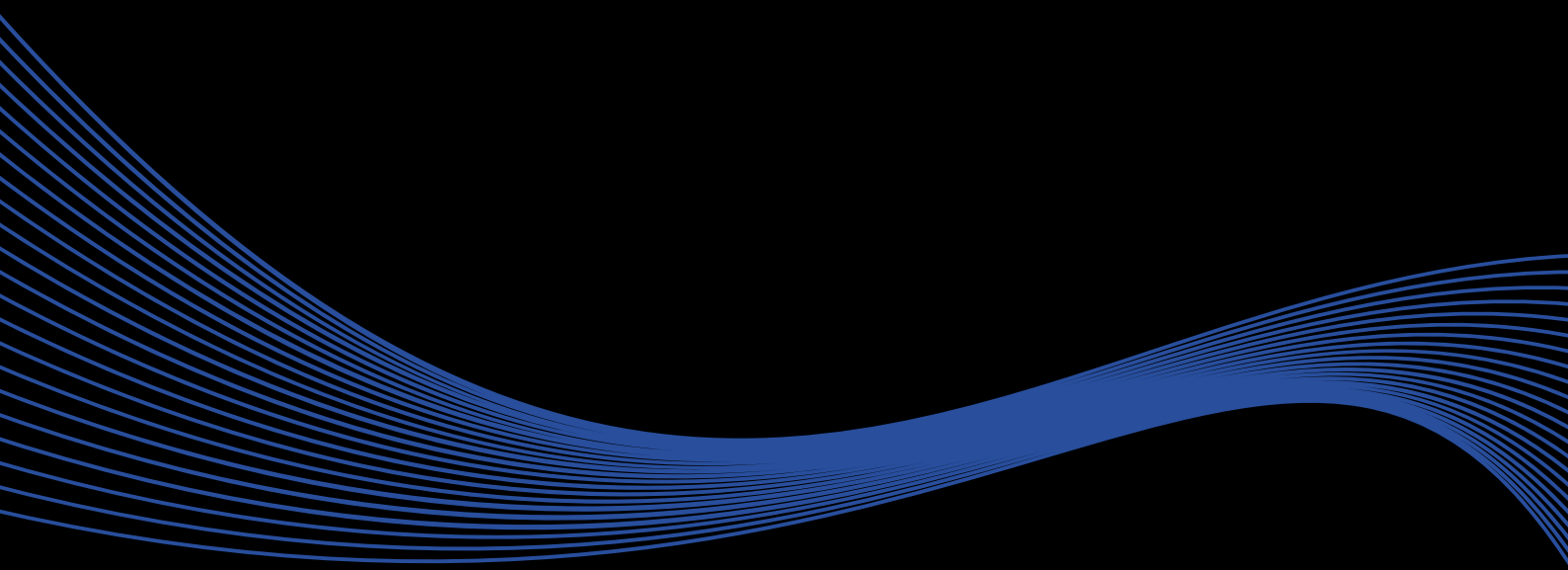
EASY ENERGY

CONSULTING & TECHNOLOGY




THE SWISS EXPERT FOR INDUSTRIAL SOLUTION MANAGEMENT

# THE COMPANY

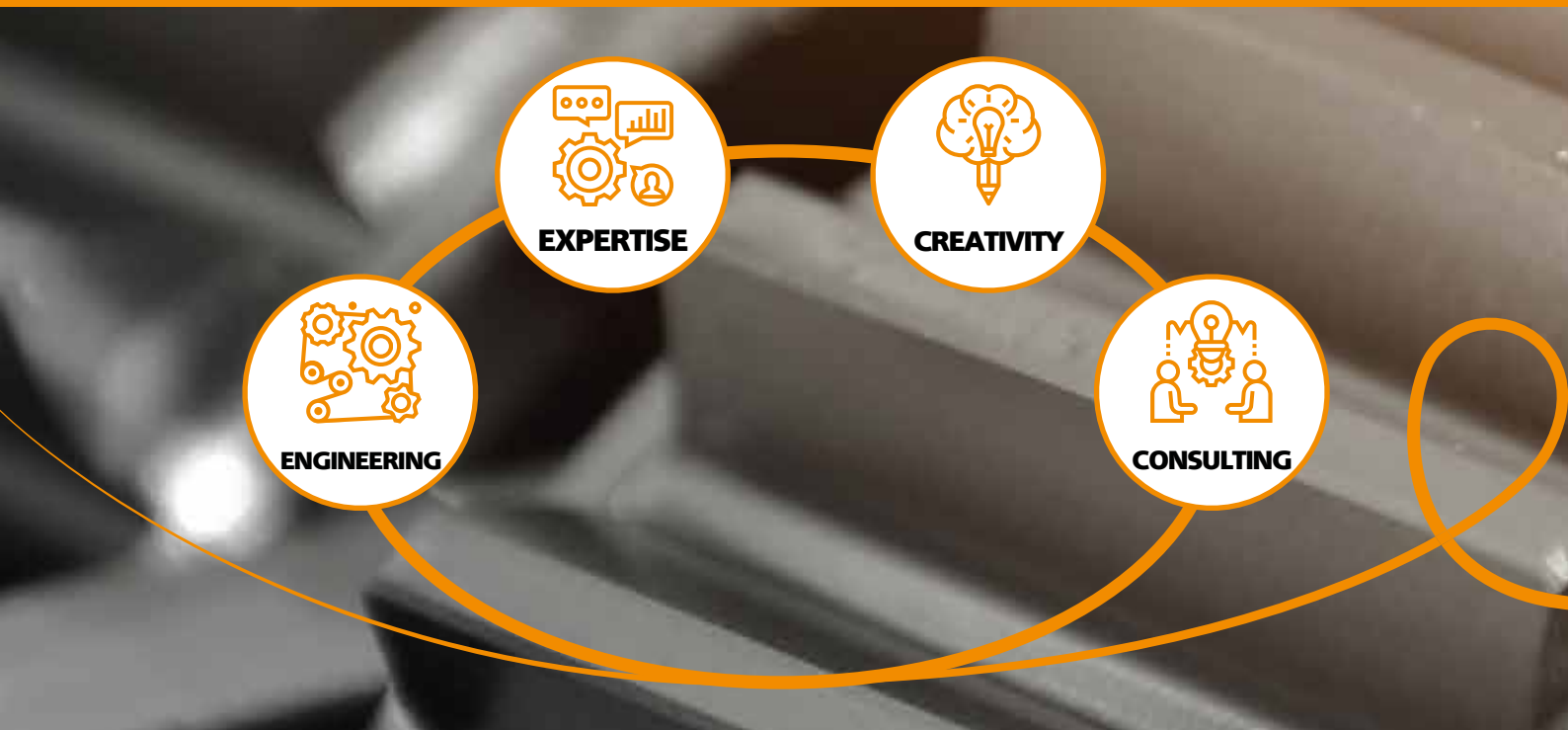
Since its incorporation in 1977, EasyEnergy's philosophy of providing OEM independent high quality services resulted in a differentiated portfolio of products and services, offering lifetime customer support.

Thanks to our multidisciplinary approach we are able to offer dedicated high quality solutions, while the multiculturalism of our staff allows us to relate to customers from all over the world.

Our network of partnerships with globally active manufacturing, consulting and construction companies, as well as reseller agreements with leading equipment manufacturers ensure EasyEnergy's capability to provide added value and long lasting relationships with our customers. Our expertise in various and complex industrial sectors allows us to offer sound project management in an agile and reactive fashion.

Attending to the Swiss tradition in the art of diplomacy, and with our multilingual and multicultural skills, we work collaboratively all over the world to estabilish close relationships with all parties involved in the projects.

# OVER 40 YEARS OF EXPERIENCE IN ENGINEERING SERVICES



# VISION


GAS
HEAT
EFFICIENCY
H2
HYDROGEN
01001100
IoT
OIL
WATER
POWER

# SERVICES

## ENGINEERING & CONSULTING

CONSULTING AND ENGINEERING SERVICES, FROM FEASIBILITY STUDY TO DETAIL DESIGN

## PROCESS SIMULATION

THERMODYNAMIC SIMULATION THANKS TO DEDICATED TOOLS AND EXPERTISE

## EQUIPMENT DESIGN

TECHNICAL SPECIFICATION FOR COMPONENTS AND SYSTEMS

## SYSTEM INTEGRATION

CUSTOMIZED SOLUTIONS USING LEADING OEM COMPONENTS

## MAINTENANCE MANAGEMENT

SKILLED OEM-CERTIFIED STAFF PROVIDE ON-SITE AND OFF-SITE MAINTENANCE

## PARTNERSHIP

COOPERATION WITH LEADING PARTNERS ADOPTING STAT-OF-THE-ART TECHNOLOGY

# ENGINEERING PROCUREMENT CONSTRUCTION

## PRODUCTION

Use electricity to separate water into hydrogen and oxygen. There are different types of electrolyzers: AEM, PEM, Alkaline, HTE with efficiencies in the region of 60 to 80%. Depending on hydrogen application, it may be necessary to install a dryer to ensure a higher degree of purity.

## COMPRESSOR AND LOW PRESSURE STORAGE

The hydrogen produced, if not directly used, is stored in low pressure tanks (20-35bar).
A compressor, usually piston or diaphragm type, raises the pressure either to reach the higher pressure storage levels (300 - 700 - 1000 bar) or to distribute the hydrogen to users.

## STORAGE (HIGH PRESSURE / LIQUIFIED / SOLID)

Being Hydrogen a very light gas, in order to reduce its storage tank size it is necessary to increase its pressure, up to 1000 bar. Alternatives to high-pressure storage are liquefaction (temperature is lowered by additional energy so that the hydrogen gas becomes liquid) or solid storage (hydrogen is absorbed or adsorbed by appropriate metals and is released with an input of heat).

Enapter

EMERSON

InterApp

SWISS ENGINEERING
STV UTS ATS

SVGW SSIGE

# COMPLETE H2 SOLUTION

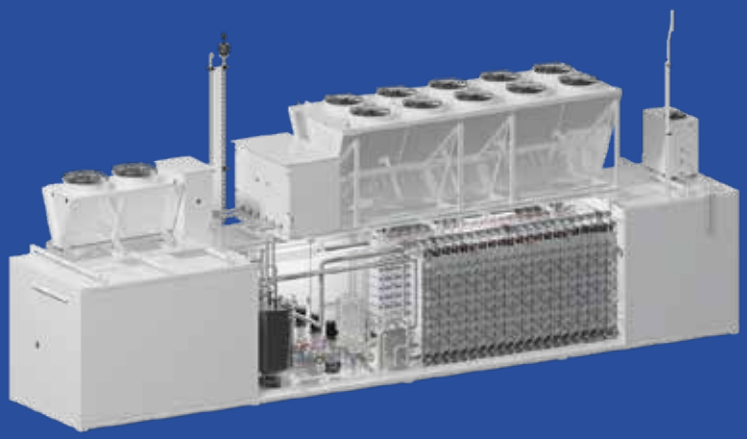
## HYDROGEN BACKUP POWER & STORAGE

Hydrogen backup power system is the cleanest way to provide uninterrupted and decentralized supply of electricity.
A fuel cell system combines hydrogen and oxygen from the air to produce electricity with no noise and no CO2 emission.
Thanks to high energy density, long lifetime, fast response time for stat-up and power modulation, fuel cell system can offer reliable and efficient source of electricity for critical loads such data center, antenna's, hospitals, banks, and other critical infrastructure.
These systems are modular and scalable according to different project requirements and desired power needs. Hydrogen generator can be used as primary power for off-grid and poor-grid sites as well as for rural electrification.

## HYDROGEN MOBILITY & INDUSTRY

Hydrogen is one of the best solutions for achieving carbon neutrality in the heavy mobility sector.
Hydrogen trucks have the same benefits of electrical vehicles without the constraints of battery weight or recharging time. Hydrogen enables energy storage from renewable sources to produce no emission fuel for transportation and logistics sectors. Hydrogen refueling station are equipped as minimum with H2 storage, gas compressor and dispenser; hydrogen can be generated on site with electrolysis or supply by trailer or pipeline.
The development of proper hydrogen refueling system requires knowledge in different field like project development, planning, construction and operation.

# CUSTOMIZED SOLUTION : H2 PRODUCTION



## MULTICORE 1MW

## FRAME 150 kW

## CUSTOMIZED SKID 2.5KW ... 150 KW

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