

OHS Introduction

Schweitenkirchen, 13th of September 2020
Dr. Markus Ostermeier, Peter Ostermeier

Executive Summary

VISION



We enable multi-family houses, residential quarters and medium-sized companies to achieve sustainable and renewable energy autonomy.

MISSION



We offer our customers a solution to store energy based on hydrogen (H₂- battery)

STRATEGY



We integrate existing components intelligently into a cost-effective overall solution.

PROBLEM & SOLUTION



Volatile and seasonally fluctuating renewable power generation needs the possibility of seasonal storage.



Our H₂-battery enables the long-term storage of electricity in the form of hydrogen.

TEAM



Peter Ostermeier

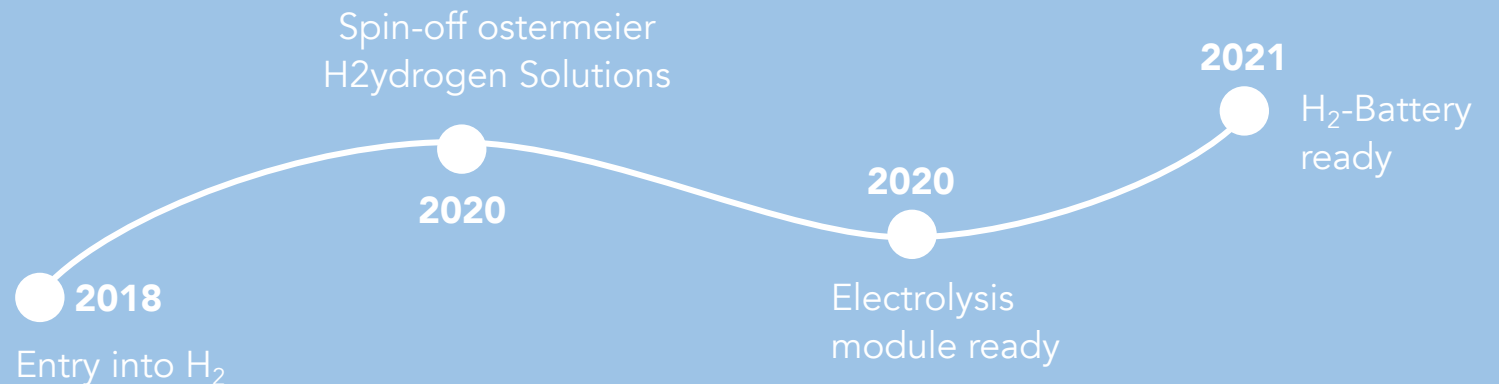
- Managing Director Ostermeier GmbH
- Manufacturing expert



Dr. Markus Ostermeier

- Expert Power-to-Gas
- Product developer

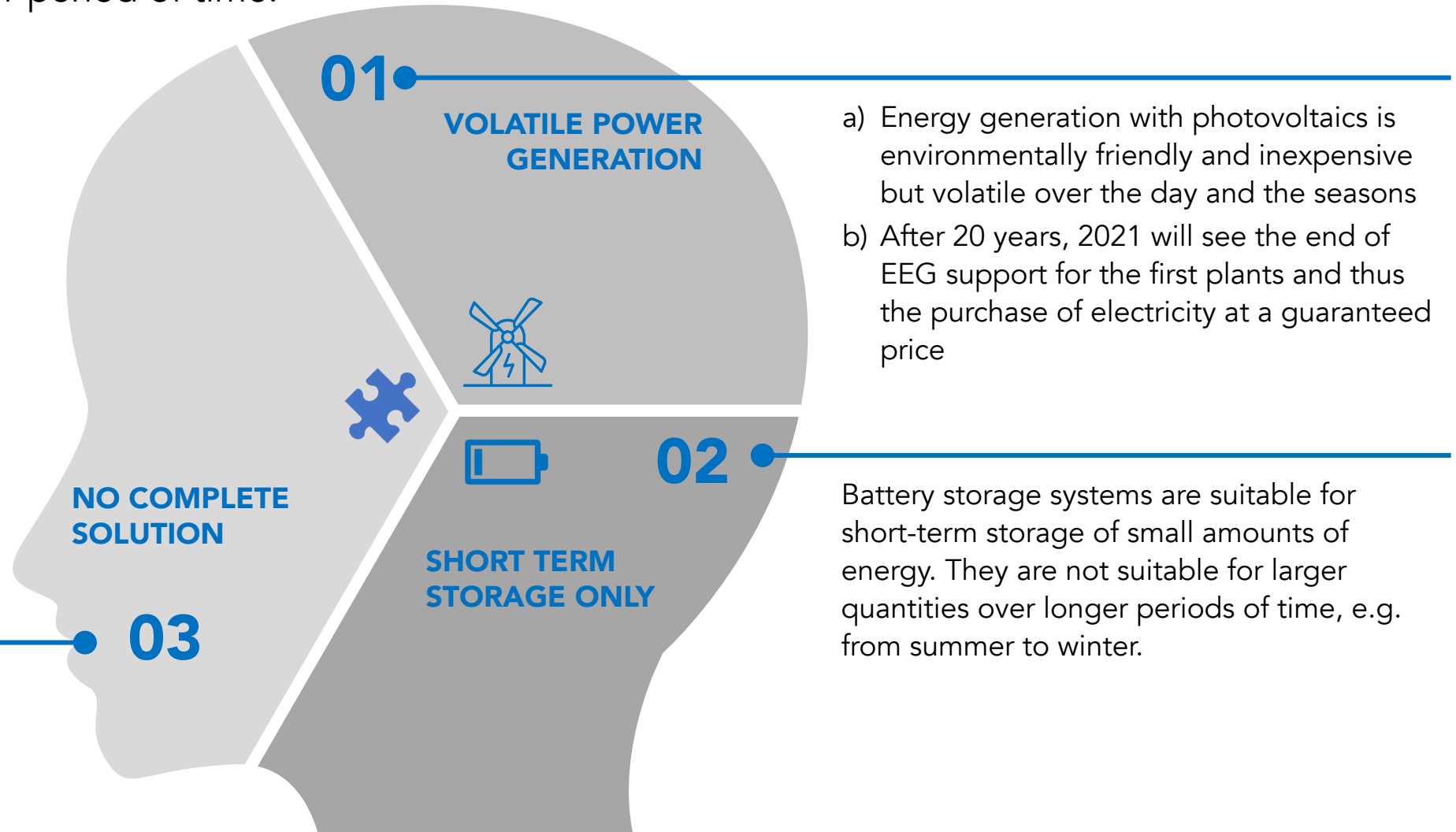
MILESTONES



Problem

There is no economic solution for residential and commercial units to be able to store seasonally generated electricity over a longer period of time.

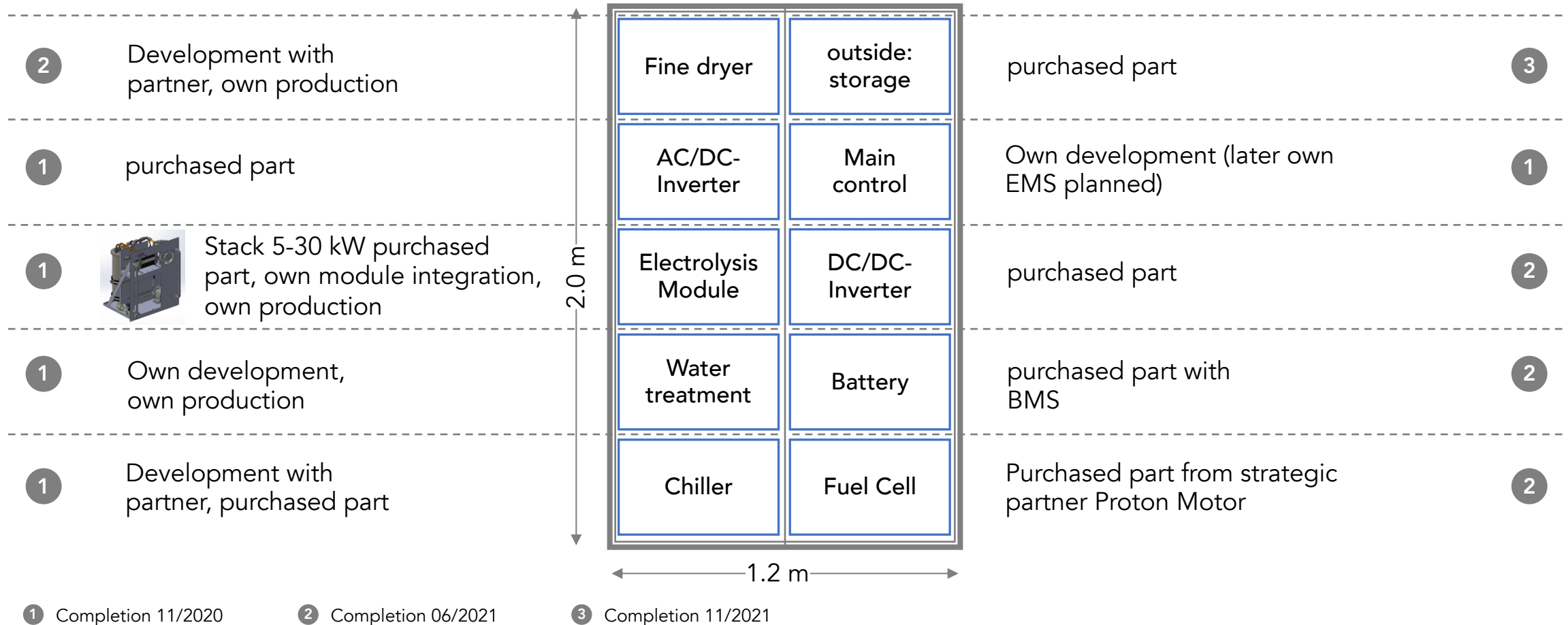
Hydrogen can only be produced on site with electricity and water, has a high energy density and is therefore the ideal material for long-term energy storage. But there is no economical complete solution for medium-sized residential and commercial units.



Solution & Technology

Our solution is modular, relies on proven components where available and in-house development where strategically sensible and necessary.

As a service we offer the plant design for the entire building via a building services planning company.



Customers

Our customers either want to use the hydrogen directly on site or store renewable electricity seasonally on a hydrogen basis from summer to winter.

 Our customer focus

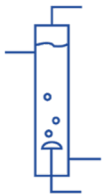
Direct use of H₂

On-site production of H₂ as required



Laboratories : 

On-site H₂ production to replace gas cylinders



Power-to-X:

H₂ as starting material for other hydrocarbons
e.g. methane, methanol



H₂-fueling station:

H₂ production on site and use as fuel

Energy storage based on H₂

Supplementing renewable energy production with a seasonal storage facility



Single family houses:

Autonomous energy supply all year round



Residential Quarters: 

Autonomous energy supply all year round



Medium-sized business: 

Autonomous energy supply all year round

Founders

Together we have the competence and experience in theory and practice to turn the idea of a hydrogen storage solution into a series product.



Dipl.-Ing.
Peter Ostermeier

- Apprenticeship as industrial mechanic with subsequent studies of mechanical engineering at the THI
- Since 2008 managing partner of Ostermeier GmbH
- Since 2013 additionally managing partner of Phoenix Thermal Solutions (PTS) GmbH



Dr.-Ing.
Markus Ostermeier

- Study and doctorate at the TUM in the field of mechanical engineering
- Various positions in the Energy Division of MAN Diesel & Turbo
- Business area and product developer at a start-up for power-to-gas
- Teacher for product development at various universities

Go to Market

With the presentation of the demonstration plant at our in-house exhibition in November, our business field hydrogen storage solutions will be presented to the public for the first time.



Start

In November 2020 we present our electrolysis to the public for the first time at our in-house exhibition



Virtual presence

Parallel to the in-house exhibition we present ourselves to the public via a website



Sales launch

Then we start active sales by participating in trade fairs, e.g. ESE, introducing a CRM system and mapping our electrolysis in special software for designing residential buildings



Partner

We actively approach PV installers, architects and building technicians because they are ideal sales partners

Summary

- H₁** Hydrogen is becoming increasingly important in our energy system and is now also perceived by politicians as important
- H₂** Many operators of photovoltaic and wind plants are looking for a practicable storage solution (after the end of EEG support)
- H₃** With our product we offer a solution that will be ready shortly
- H₄** We have the experience and the production infrastructure to start
- H₅** We offer you an attractive investment option with moderate risk

Contact

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