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DeCarbCH

Renewable Metal Fuels - ReMeF

Innovative approach for the long-term storage of heat and electricity

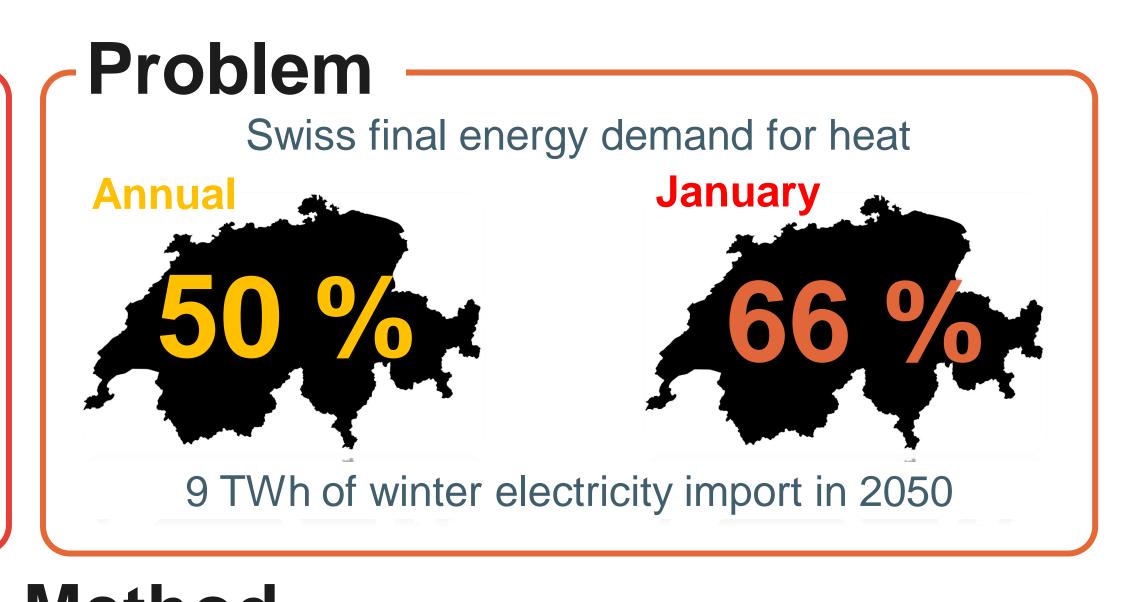
OST, Yvonne Bäuerle, Solar Technology Institut (SPF), yvonne.baeuerle@ost.ch

-Goals

1.What role could ReMeF play in covering winter peaks (heat & electricity) in the Swiss building stock for the security of supply?

Swiss energy research for the energy transition

2.Can ReMeF eliminate the need for other peak power options like fossil fuels or hydrogen?



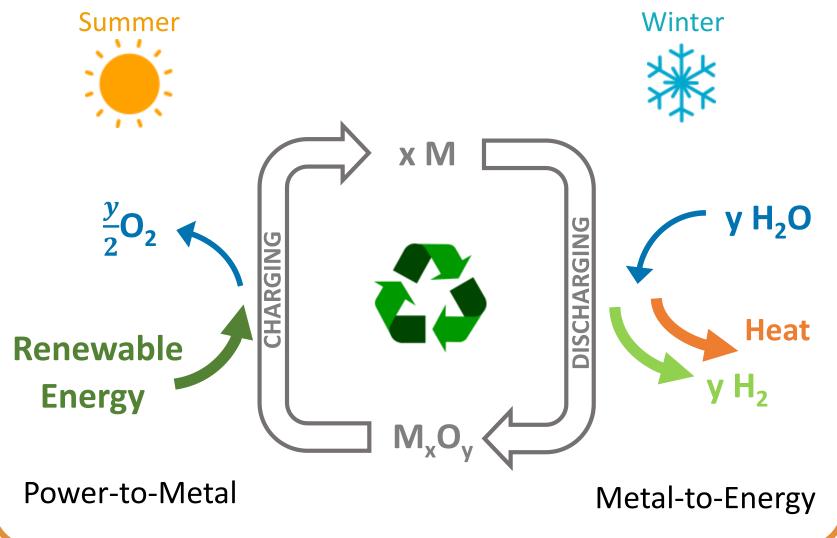
Introduction

Results

Costs

Abundancy

Renewable Metal Fuels as seasonal energy storage concept



- Al

--- Fe

--- Mg

World

reserves

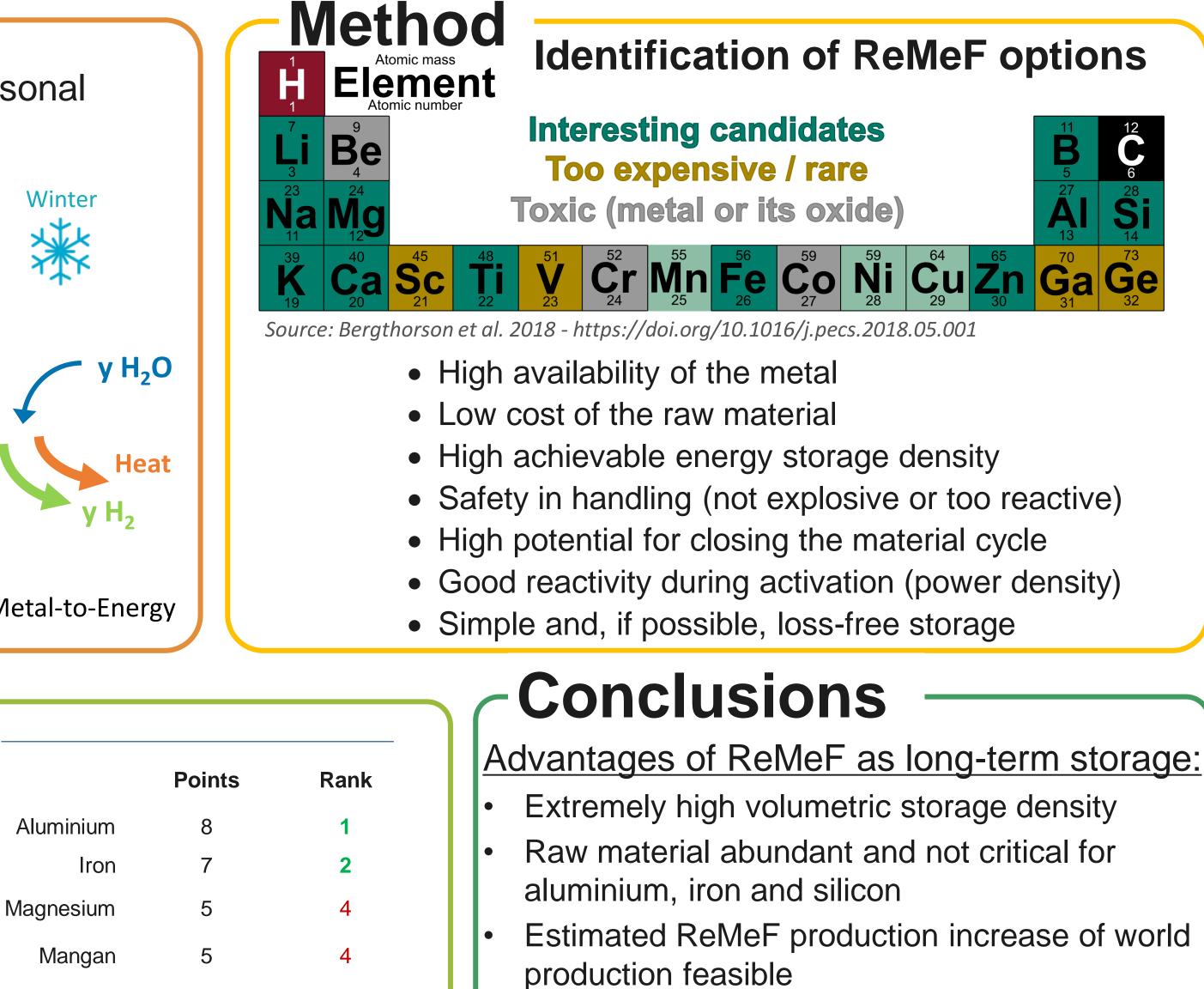
- Mn

- Si

- Zn

Silicon

7



 No storage losses and simple and safe transport / storage



2