

Confederaziun svizra

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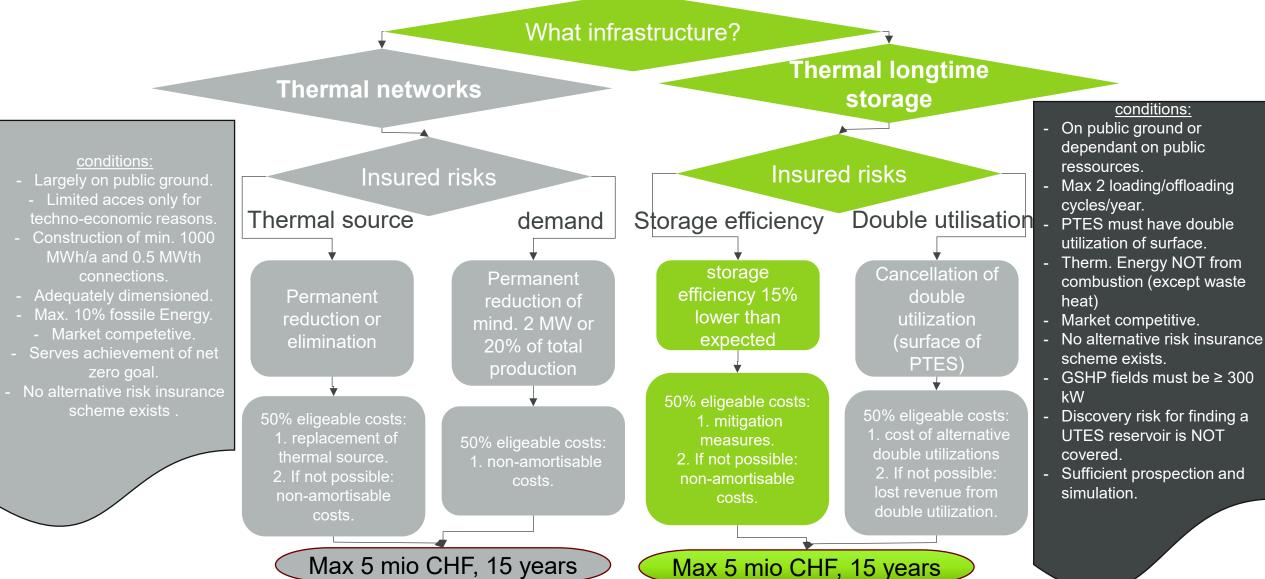
Uffizi federal d'energia UFE



# UTES STRATEGIES, POLICIES & REGULATION IN SWITZERLAND



# **POLICY - RISK GUARANTEE KLG ART 7**





# **POLICY - RISK GUARANTEE UTES**

#### Insured risks:

storage efficiency 15% lower than expected

#### Insured costs:

#### **50%** of:

- 1. mitigation measures.
- 2. If not possible: non-amortisable costs.

#### **Limitations:**

Max 5 mio CHF, Max duration 15 years

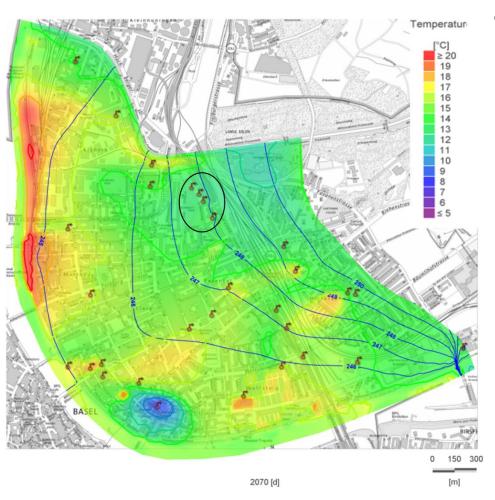
#### conditions:

- On public ground or dependant on public ressources.
- Max 2 loading/offloading cycles/year.
- PTES must have double utilization of surface.
- Therm. Energy NOT from combustion (except waste heat)

- Market competitive.
- No alternative risk insurance scheme exists.
- GSHP fields must be ≥ 300 kW
- Discovery risk for finding a UTES reservoir is NOT covered.
- Sufficient prospection and simulation.



## **REGULATION – GROUND WATER PROTECTION**



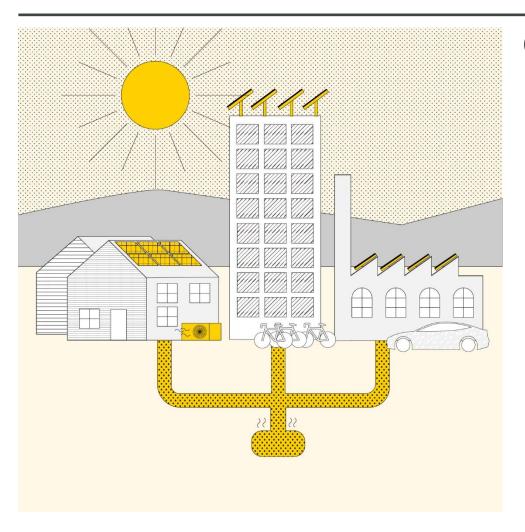
Todays regulation (3°C) is too prescriptive rigid and limiting.

Revised national groundwater regulation in preparation (administrative consultation)

- GW > 20°C: excempt from fix numeric limit → case per case (risk based regulation)
- GW < 20°C: higher delta T for GW temp reduction; possibility to grant exceptions (risk based regulation)



# **ENERGY AND CLIMATE STRATEGY...**



#### **GOALS**

- Secure and economic supply with renewable energy
- Net zero emissions by 2050

→ What are the roles of energy storage?



## **ENERGY STORAGE ENTERS POLITICAL ARENA**

Numerous postulates in national parliament (power, heat, power-to-X)

- showed need for holistic approach
- power, heat, molecules
- stability, resilience, seasonal balancing, self-sufficience

### → Energy storage round tables & action plan

- Power, heat and molecule storage
- Involving industry, administration, academia, NGO
- goal: joint action plan
- Nov. 25 Dez. 26



# **TOPICS OF ROUNDTABLE AND ACTION PLAN**

### Technical & regulatory

- Technical needs
- Necessary regulatory adaptions

# Energy & spatial planning

- Geografic distribution of potential
- Clarification of responsibilities

# Socio-economic & institutional

- Business models
- Storage demand

...moving from from early trail blazer projects and opportunistic regulatory adoptions and policy measures....

... towards a new regulatory and policy framework embedded in a holistic storage strategy!



# Thank you for your interest!



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