

Czech Hydrogen Strategy

Czech Hydrogen Backbone Dialogue

November 5th, 2024

Petr Mervart

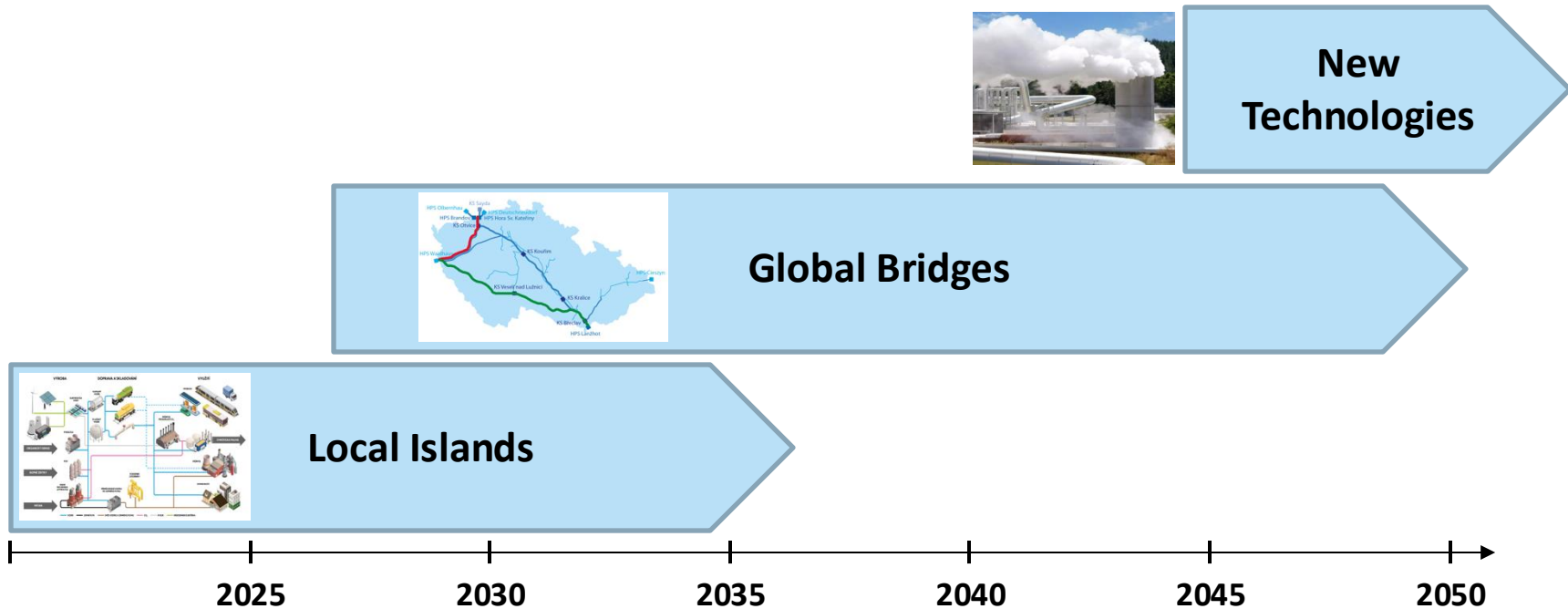


MINISTERSTVO
PRŮMYSLU A OBCHODU

Ministry of Industry and Trade



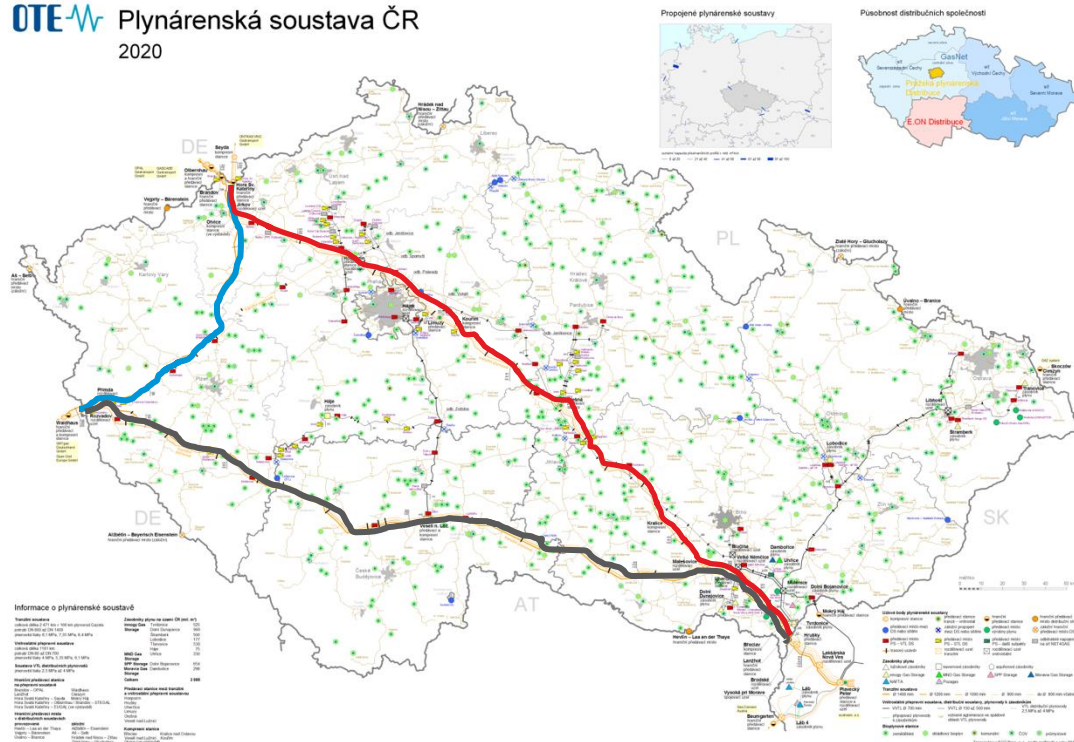
Czech Hydrogen Strategy – Three Stages



Czech Hydrogen Backbone – Advantage 1

OTE Plynárenská soustava ČR
2020

- ➔ Three parallel lines
- ➔ Fast repurposing
- ➔ Cheap repurposing
- ➔ Big capacity
- ➔ Secure NG supply



Czech Hydrogen Backbone – Advantage 2

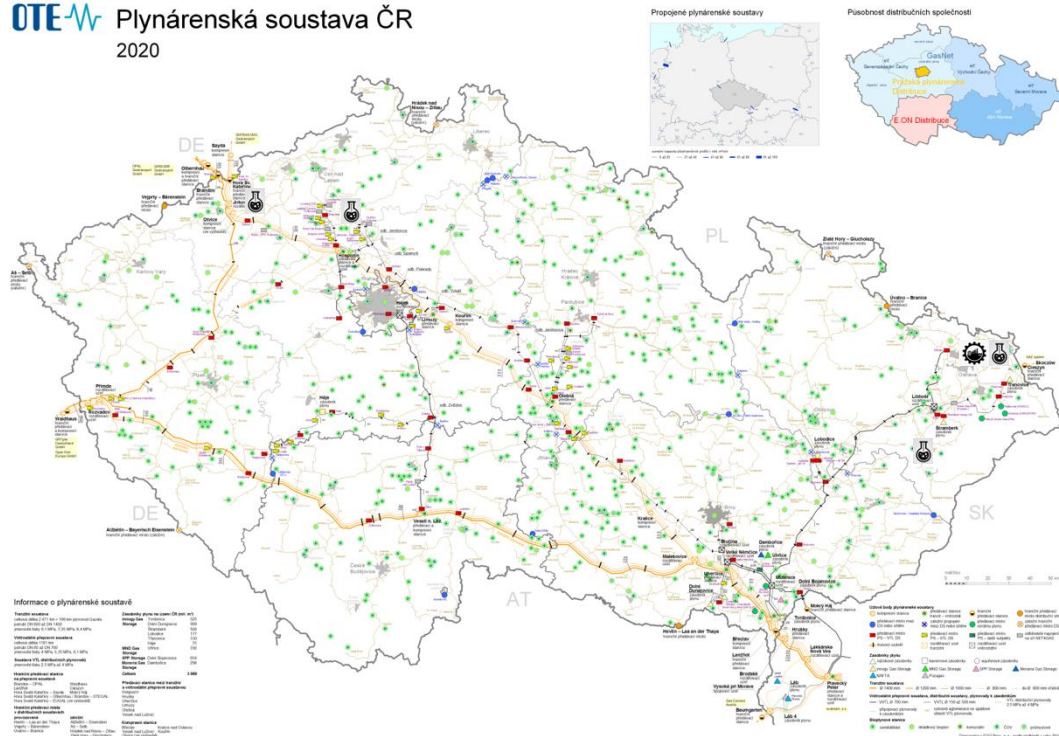


Czech Hydrogen Backbone – Advantage 3

	Hydrogen import	Local production
Price of renewable hydrogen	3 - 5 EUR/kg	>8 EUR/kg – with good mix of RES >14 EUR/kg with 2018 RFNBO rules
Quantity	1,5 M t/y at each entry point	max. 20 000 t/y in 2030
Capital costs	cca 6 750 M CZK (270 M EUR)	cca 800 M CZK for 1 000 t/y (32 M EUR)
Start of delivery	after 2030	already started
Production chain	outside the Czech Republic	in the Czech Republic

Main Centers of Hydrogen Consumption

OTE Plynárenská soustava ČR
2020



Conclusions

- ➔ The Czech Hydrogen Backbone is a cost-effective solution to bring renewable hydrogen to Czech industries and mobility
- ➔ Producing and transporting hydrogen requires extensive international cooperation
- ➔ We need to begin as soon as possible

Petr Mervart

Plenipotentiary of the Minister of Industry and Trade for Hydrogen Technologies

petr.mervart@mpo.gov.cz

Ministry of Industry and Trade
Czech Republic



MINISTERSTVO
PRŮMYSLU A OBCHODU

Ministry of Industry and Trade