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Unifying policies to support the uptake of green hydrogen to decarbonize Europe.

Good practice summary:

Low-cost Public H₂ Refuelling Station



"Why Hydrogen? Why in MSR? Who is Behind it?"

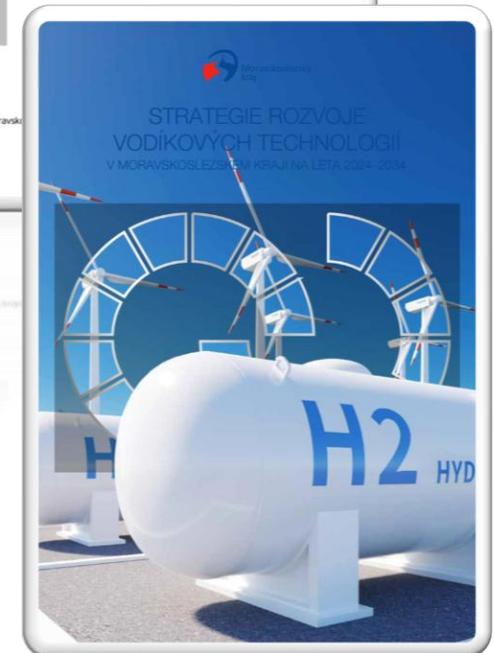


... the reasons

- strong political support and will to adopt hydrogen technologies to regional energy mix
- **Hydrogen Technology Development Strategy of the Moravian-Silesian Region ®2024**
- rising demand for alternative fuels in CZ
- commitment to reducing greenhouse gas emissions under the European Green Deal
- no existing public infrastructure for hydrogen mobility

... the local players

- owner/investor GP: **Vítkovice, a.s.**
- regional support: Moravian-Silesian Region
- & other close cooperation with local technological stakeholders and technical university
- **GOAL OF REALISATION:** acceleration of all regional developing hydrogen activities



"How It Works? How Quickly It Was Ready to Use ?"



... the key parameters

- „SESA“ = simply, efficient, scalable, accessible
- technology: 7.26 m³ HP storage tank 1000bar, compressor, dispenser (700 bar) PERSONAL HEV ONLY
- capacity: 8-10 vehicles/day, expandable to 40 vehicles/day
- energy efficiency: 70% lower energy consumption than larger stations – without hydrogen active cooling

... the timeline from idea to reality

- start: January 2021
- commissioning: May 2022
- in operation: June 2022
- realisation: 18 months



"How Much? Impacts?"



... affordable price

- total investment: € 600.000 / CZK 15 mil.
- lower operating costs: up to 50% lower than large-scale fully equipped stations
- funding: privately financed, no public support

... real outcomes, measurable impact

- first public hydrogen station in the Czech Republic
- supports regional & national decarbonization goals
- establishes criteria for eligible costs in future programs



"Ambition! Recommendations!"



... moving towards tomorrow

- replicate the solution in CZ/EU
- set up low-cost model to maximize number of filling points with minimal public sources

... real outcomes, measurable impact, lesson learned

- the opportunity to work closely with a local „technological“ stakeholder
- local reference available for setting up regional financial support for similar low-cost infrastructure (in MSR using resources from Just Transition Fund: so-called MSR H2 Valley „Mesh Solution“)
- due to the low-cost solution, the necessary allocation of the support programme is expected to be minimized to create the required/planned number of filling points in the region
- clarification of the criteria for eligible costs for potential beneficiaries
- the result of existing regional innovation strategies



NEED YOU KNOW MORE?

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