

Green Hydrogen @ Blue Danube

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The Concept

Hydrogen
for Climate Action



Produce **green hydrogen on a large scale off-grid in South-East Europe** using wind and solar energy



Transport hydrogen via the River Danube to hydrogen users in countries of the **Interreg Danube Transnational region**



Set up the necessary hydrogen infrastructure in the participating member states along TEN-T core corridors





The Benefits

- ✓ Contribute to achieve **climate objectives of Member States**
- ✓ Reduce dependence on fossil energy imports: **renewables made in Europe**
- ✓ Increase **security of energy supply**: increased flexibility and resilience
- ✓ **Strengthen key European industry sectors, create jobs and spill-over effects**

The Players

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The Region

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It is foreseen that the initiative will be supported by the Danube Commission

Participating countries in the Interreg Danube Transnational Programme

The Facts

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2,000 MW off-grid wind and solar **energy production**



1,800 MW electrolysis for **hydrogen production**



40 hydrogen **transport barges**



80,000 tonnes of hydrogen for **industry, power + mobility hubs (500 trucks / 100 HRS) along the Danube**



The Impact



5.85 billion euros in **total investment**



5,000 **new jobs** and 50,000 EU jobs **secured**



1 billion euros in **annual revenue** for **European companies**



3.2 million tonnes of **CO2 reduction** each year

In a Nutshell

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- Use the **Danube waterway** for cost-efficient and sustainable transport of hydrogen in the Danube region
- Utilise the **Danube sea ports and inland ports** for storage and intermodal transport of green hydrogen
- Bring green hydrogen to early movers in the **industry and mobility sectors** and roll out the hydrogen economy along **TEN-T core corridors**
- **Strengthen and decarbonise** both traditional and new industry sectors in Europe all along the hydrogen value chain

The Vision

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Spill-over effects: Connect the Danube value chain to the **River Rhine**, to the **Black Sea**, to **pipeline networks** across Europe and to maritime ports



Partnering has just begun

Hydrogen
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Verbund

DB SCHENKER



SIEMENS
Ingenuity for life



hydrogenious
LOHC TECHNOLOGIES



Supported by the
Secretariat of the
Danube Commission



Next steps: complete partnering and start detailed project planning



Thank you for your attention!

For more information on the IPCEI on hydrogen,
please visit www.hydrogen4climateaction.eu.

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