

GREEN HYDROGEN HUBS

**PRODUCTION, STORAGE AND DISTRIBUTION OF GREEN
HYDROGEN AND RENEWABLE ENERGY**



**EUROPEAN CONSORTIUM
H2R HYDROGEN RENEWABLE**

TARGET INSTALLATION PARAMETERS

| | |
|--|------------------|
| Photovoltaic power plant: | 300 MWp |
| Maximum hourly electricity production: | 284 MWh |
| Annual electricity production: | 360 GWh |
| Power of electrolyzers for the production of green hydrogen: | 95 MW |
| Daily average production of green hydrogen: | 16 tonnes |
| Annual production of green hydrogen: | 5 820 tonnes |
| Daily average production of liquid oxygen: | 99 tonnes |
| Annual production of liquid oxygen: | 36 160 tonnes |
| Financing scale: | 600 MM EUR |
| Employment: | 100 |
| Reduction of CO2 emissions per day: | 600 tonnes |
| Reduction of CO2 emissions per year: | 2 300 000 tonnes |
| Planted trees equivalent: | 8 000 000 |



OUR ABILITY TO FUEL PUBLIC TRANSPORT



Alstom Coradia iLint

VEHICLE SPECIFICATIONS

Compressed H2 storage tanks: 350 MPa
Storage tank capacity: 180 kg
H2 consumption: 25 kg/100 km
Travel range at single fuelling: 720 km

OUR READINESS TO PRODUCE GREEN H2

2024: 1 500 kg/day → 8 trains*
2026: 6 500 kg/day → 36
2027: 13 500 kg/day → 75
2028: 16 000 kg/day → 89

**Assuming daily travel range of 720 km per train*

VEHICLE SPECIFICATIONS

Compressed H2 storage tanks: 350 MPa
Storage tank capacity: 38,5 kg
H2 consumption: approx. 10 kg/100 km
Travel range at single fuelling: 385 km

OUR READINESS TO PRODUCE GREEN H2

2024: 1 500 kg/day → 39 buses*
2026: 6 500 kg/day → 169
2027: 13 500 kg/day → 351
2028: 16 000 kg/day → 416

**Assuming daily travel range of 385 km per bus*



Solaris Urbino 12 Hydrogen

HELP US BETTER UNDERSTAND **YOUR NEEDS**

- How many hydrogen buses / trains do you currently operate? Which models? In which locations?
- How do you currently store and fuel hydrogen? Compressed vs. liquid? At what pressures?
- Are you currently using green hydrogen? If so, do you source green hydrogen locally?
- What are your requirements re hydrogen purity & quality?
- What is your target hydrogen buses / trains number? Do you expect to use only green hydrogen to power your fleet?
- What is the target price that you are willing to pay for 1 kg of green hydrogen?
- Why are you interested in green hydrogen? Are there any incentives in Germany to use green hydrogen or engage in hydrogen-related R&D initiatives?
- Are you currently a member of any hydrogen consortium? If not, would you be interested in joining one in order to establish cooperation between our companies to foster adoption and development of hydrogen technology?



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