

CORRIGENDUM
to the ANNUAL WORK PLAN
and
CALL FOR PROPOSALS 2022
of the
CLEAN HYDROGEN
JOINT UNDERTAKING



Subject: This document is a corrigendum to the Annual Work Plan 2022 of the Clean Hydrogen Joint Undertaking.

The current document complements the Annual Work Plan (AWP) and Call for proposals 2022, as detailed below.

The current document takes precedence over the original documentation, where different.

- (1) On page 270 of the AWP, section “**Annexes**”, in the first row of the table on “*Hydrogen Storage and distribution. Compression, Purification, and Metering Solutions*”, under column 2 – “Type of action” where it reads ‘RIA’:

Hydrogen storage and distribution Compression, Purification and Metering Solutions	<i>Type of Action</i>	To develop more efficient compressor and purification technologies	To reduce the total cost of ownership of compression and purification technologies	To reduce the energy and consumption and increase the recovery factor of purification technologies	To increase the reliability and lifetime of compression and purification technologies	To improve metering technologies and standards, especially in terms of accuracy and protocols.
HORIZON-JTI-CLEANH2-2022-02-08: Development of novel or hybrid concepts for reliable, high capacity and energy-efficient H2 compression systems at real-world scale	RIA	X	X		X	
HORIZON-JTI-CLEANH2-2022-02-09: Sampling methodology and quality assessment of HRS	RIA					O

shall read ‘IA’, as follows:

Hydrogen storage and distribution Compression, Purification and Metering Solutions	<i>Type of Action</i>	To develop more efficient compressor and purification technologies	To reduce the total cost of ownership of compression and purification technologies	To reduce the energy and consumption and increase the recovery factor of purification technologies	To increase the reliability and lifetime of compression and purification technologies	To improve metering technologies and standards, especially in terms of accuracy and protocols.
HORIZON-JTI-CLEANH2-2022-02-08: Development of novel or hybrid concepts for reliable, high capacity and energy-efficient H2 compression systems at real-world scale	IA	X	X		X	
HORIZON-JTI-CLEANH2-2022-02-09: Sampling methodology and quality assessment of HRS	RIA					O

- (2) In the AWP and respectively in the call for proposals, in topic ‘**HORIZON-JTI-CLEANH2-2022-04-04: Dry Low NOx combustion of hydrogen-enriched fuels at high-pressure conditions for gas turbine applications**’, page 162, under section ‘Expected Outcomes’, the text:

‘Target for maximum efficiency reduction in H2 operation of 10% points @70% Volume of H2 for 2024 with a view to reach 10% points @100% H2 in 2030’

shall read:

‘Target for maximum efficiency reduction in H2 operation of 0.5-2% points @70% Volume of H2 for 2024 with a view to reach 2% points @100% H2 in 2030’

- (3) in the AWP, in topic '**HORIZON-JTI-CLEANH2-2022-01-08: Integration of multi-MW electrolysers in industrial applications**', on page 68, section 'Expected Outcomes', the text :

"SRIA KPIs for 2024 for the relevant technology should be met.

[...]

Project results are expected to contribute to all of the following objectives of the JU as reflected in the SRIA:

- AEL, Electricity consumption @ nominal capacity (kWh/kg) 49, Capital cost €/kg/d) 1,000, O&M cost €/kg/d/y) 43, Degradation (%/1,000h) 0.11, Current density (A/cm²) 0.7, Use of critical raw materials as catalysts (mg/W) 0.3;
- PEMEL, Electricity consumption @ nominal capacity (kWh/kg) 52, Capital cost €/kg/d) 1,550, O&M cost €/kg/d/y) 30, Degradation (%/1,000h) 0.15, Current density (A/cm²) 2.4, Use of critical raw materials as catalysts (mg/W) 1.25."

shall read:

"SRIA KPIs for 2024 for the relevant technology should be met.

[...]

Project results are expected to contribute to all of the following objectives of the JU as reflected in the SRIA:

- AEL, Electricity consumption @ nominal capacity (kWh/kg) 49, Capital cost €/kg/d) 1,000, O&M cost €/kg/d/y) 43, Degradation (%/1,000h) 0.11, Current density (A/cm²) 0.7, Use of critical raw materials as catalysts (mg/W) 0.3;
- PEMEL, Electricity consumption @ nominal capacity (kWh/kg) 52, Capital cost €/kg/d) 1,550, O&M cost €/kg/d/y) 30, Degradation (%/1,000h) 0.15, Current density (A/cm²) 2.4, Use of critical raw materials as catalysts (mg/W) 1.25.
- **SOEL, Electricity consumption @ nominal capacity (kWh/kg) 39, Heat demand @ nominal capacity (kWh/kg) 9, Capital cost €/kg/d) 2,000, O&M cost €/kg/d/y) 130, Degradation (%/1,000h) 1, Current density (A/cm²) 0.85 ."**