

Data	Description
PV Plants & H2 Plant	
Lloseta PV Park- Installed peak power	Installed peak power of the Petra PV Park
Lloseta PV Park- PV production	Hourly PV production data series for the Petra PV Park
Lloseta PV Park- Performance ratio	Ratio of actual to theoretical energy output of the Petra PV Plant
Lloseta PV Park- CAPEX	Initial capital investment for the PV plant (EUR/MW)
Lloseta PV Park- OPEX	Operation and maintenance (O&M) costs: solar panel maintenance and personnel costs (EUR/MW)
Lloseta PV Park-Average energy price	Electricity export price (EUR/MW)
Petra PV Park – Installed peak power	Installed peak power of the Petra PV Park
Petra PV Park – PV production	Hourly PV production data series for the Petra PV Park
Petra PV Park – Performance ratio	Ratio of actual to theoretical energy output of the Petra PV Plant
Petra PV Park – CAPEX	Initial capital investment for the PV plant (EUR/MW)
Petra PV Park – OPEX	Operation and maintenance (O&M) costs: solar panel maintenance and personnel costs (EUR/MW)
Petra PV Park – Embedded CO2 emissions	CO ₂ emissions associated with PV plant activities, including the construction and installation of PV panels and the loss of carbon sequestration from displaced vegetation
Petra PV Park – Average energy price	Electricity export price (EUR/MW)
H2 plant – Installed power	Total system nominal power, including Balance of Plant (BoP)
H2 plant – CAPEX	Initial capital investment for the H2 plant (EUR/MW)
H2 plant -OPEX of the H2 plant	Electrolyser operation and maintenance (O&M) costs
H2 plant – Lifetime	Electrolyser lifetime in years
H2 plant – Technology	Kind of electrolyser technology
H2 plant – Electrolyser manufacturer	Company manufacturer of the electrolyser
H2 plant – Stack manufacturer	Company manufacturer of the stack
H2 plant – Stack nominal capacity	Rated capacity of an individual stack, as specified by the manufacturer (kWDC)
H2 plant – Number of stacks	Number of stacks used in the electrolyser system
H2 plant – H2 production	Hydrogen production flow rate (kg/h)
H2 plant – H2 out pressure	Electrolyser hydrogen outlet pressure (bar)
H2 plant – Ambient temperature	Ambient temperature (°C)
H2 plant – Operating temperature	Electrolyser stack operating temperature
H2 plant – System Efficiency	System efficiency
H2 plant – Functioning percentage	Electrolyser performance factor, accounting for ageing and operating conditions
H2 plant – System availability	Percent amount of time that the electrolyser was able to operate vs the overall time that it was intended to operate over the timeframe of a data collection exercise
H2 plant – Operating hours	Annual operating hours of the electrolyser
H2 plant – Energy consumption	System specific consumption
H2 plant – Stand by energy consumption	Energy consumed when the electrolyser does not produce H2
H2 plant – Water consumption	Water consumption during electrolyser standby operation, maintaining a minimum tank level of one-third capacity for fire safety purposes.
H2 plant – Fraction of renewable energy input	Timeframe covered by this data collection exercise, based on available Guarantees of Origin (GoOs), other relevant certificates, or a direct connection to renewable energy sources (RES).
H2 plant – GN Grid injection H2 ton demand	GN Grid injection H2 ton demand
H2 plant – End-user H2 ton demand	End-user H2 ton demand

Tube Trailers	
Tube Trailers – OPEX	Tube trailers maintenance and operation costs
Tube Trailers – Operation frequency	Departure frequency (month)
Tube Trailers – Road distance	KMs Lloseta – Palma de Mallorca
Tube Trailers – Total storage capacity	Kgs H2 storage capacity in tube trailers
Tube Trailers – Storage pressure	Hydrogen pressure (bars) inside the tube trailers
Tube Trailers – Type of fuel	Fuel type used by the tube trailers
Tube Trailers – Average fuel consumption	L/100km
Tube Trailers – State of H2 in storage tank	Physical state of hydrogen in the storage tank
Tube Trailers – Tank type	Type of storage tank under development
Tube Trailers – Storage tank material	Storage tank construction material(s)
Tube Trailers – Internal lining material	Liner material
Tube Trailers – Internal tank volume	Internal volume of the hydrogen storage tank (m ³)
Tube Trailers – External tank volume	External volume of the hydrogen storage tank, including the tank walls, bosses, plug, and internal hydrogen storage volume (m ³).
Tube Trailers – Maximum working pressure	Maximum working pressure of the tank, as specified by the manufacturer
Tube Trailers – Minimum temperature – rated	Minimum ambient and internal temperature to which the storage tank is exposed during normal operation
Tube Trailers – Maximum temperature – rated	Maximum ambient and internal temperature to which the storage tank is exposed during normal operation
Tube Trailers – Gravimetric capacity	Percent weight of hydrogen that can be stored over the total tank weight, including in-tank valve injector assembly, tank walls, bosses, plug and the weight of the maximum amount of hydrogen
Tube Trailers – Est. lifetime of storage tank	Estimated service life of the storage tank
Tube Trailers – Number of cycles	Number of charging/discharging cycles completed to date
Tube Trailers – Type of cycle applied	Types of charging/discharging cycles used for qualification testing
Tube Trailers – Peak hydrogen charging rate	Maximum hydrogen charging rate achieved during the reporting period, including the corresponding hydrogen temperature
H2 Injection into NG network	
Pipeline – CAPEX	Initial capital investment (EUR/MW)
Pipeline – OPEX	Operation and maintenance of the injection point
Pipeline – H2 flow rate in hydroduct	H2 delivered flow rate
Pipeline – Length	Pipeline length
Pipeline – Diameter	Pipeline diameter
Pipeline – Material	Pipeline material
Pipeline – Pressure	Hydrogen pressure after pressure regulation and before the mass flow meter and injection point
Pipeline – Pressure drop	Hydrogen pressure at the first pressure transmitter downstream of the measurement system
Pipeline – Embedded CO2 emissions	CO ₂ emissions associated with pipeline manufacturing and installation
Pipeline – NG max flow rate	Maximum natural gas flow rate (Nm ³ /h)
Pipeline – NG operation flow rate	Natural gas operating flow rate (Nm ³ /h)
Pipeline – NG inlet max operation pressure	Maximum natural gas inlet operating pressure (bar)
Pipeline – NG inlet operation pressure	Natural gas inlet operating pressure (bar)
Pipeline – H2 max flow rate	Maximum hydrogen flow rate (Nm ³ /h)
Pipeline – H2 operation flow rate	Hydrogen operating flow rate (kg/h)

Pipeline – H2 inlet max operation pressure	Maximum hydrogen inlet operating pressure (bar)
Pipeline – H2 inlet operation pressure	Hydrogen pressure at the pressure transmitter upstream of the control valve
Pipeline – H2 % in NG (vol.)	Hydrogen % blending in Natural Gas (vol.)
Fuel Cell – Ports Balears	
Ports Balears – CAPEX	Initial capital investment
Ports Balears – OPEX	Operation & maintenance costs of the Fuel Cell
Ports Balears – Ambient temperature	Ambient temperature (°C)
Ports Balears – System temperature	System temperature (°C)
Ports Balears – Operational profile	Fuel cell operating profile
Ports Balears – Accumulated operating hours	Total hours of operation since start
Ports Balears – Number of starts and stops	Number of start-up and shutdown cycles
Ports Balears – Hydrogen consumption	Hydrogen flow rate measured by the flow meter (kg/h)
Ports Balears – Output voltage and current	Output voltage and current (V)
Ports Balears – CO2 savings	CO ₂ emissions avoided through electricity generation
Fuel Cell – Hotel Iberostar	
Hotel Iberostar – CAPEX	Initial capital investment
Hotel Iberostar – OPEX	Operation and maintenance costs of the Fuel Cell
Hotel Iberostar – Ambient temperature	Ambient temperature (°C)
Hotel Iberostar – System temperature	Hydrogen inlet temperature to the fuel cell
Hotel Iberostar – Output voltage and current	Output voltage and current (V)
Hotel Iberostar – Onsite buffer H2 tank pressures	Onsite buffer H2 tank pressures (bar)
HRS Provisional	
HRS Provisional – H2 pressure	Tube trailer pressure (bar)
HRS Provisional – Type	Type of provisional HRS
HRS Provisional – Units	Units of HRS
HRS Provisional – Affected bus lines	Bus lines served by vehicles refuelled at the provisional HRS
HRS Provisional – Circulation frequency	Monthly circulation frequency
HRS Provisional – Daily driven distance	Daily driven distance (km)
HRS Provisional – H2 consumption	H2 consumption in Kg/100km
HRS Provisional – On-site tank pressure	On-site tank pressure
HRS Provisional – H2 consumption based on vehicle registration number	H2 consumption based on vehicle registration number
HRS Provisional – Refueling frequency	Refueling times a day
HRS Provisional – Refueling time	Time for one bus to refuel
HRS Provisional – H2 lower SOC	Minimum hydrogen State of Charge (SOC) required before initiating refuelling.
HRS Provisional – Bus H2 capacity	Bus H2 capacity (kg)
HRS Provisional – Bus H2 usable capacity	Bus H2 usable capacity (kg)
HRS Provisional – Bus H2 pressure	Bus H2 pressure (bar)
HRS Provisional – Operator	Company operating the HRS

HRS Provisional – Station setting	Whether the hydrogen refuelling station is located within a petrol station forecourt or operates as a stand-alone facility.
HRS Provisional – Hydrogen supply logistics	Hydrogen supply method to the HRS
HRS Provisional – Dispensing pressure	Hydrogen dispensing pressure
HRS Provisional – Number of dispensers	Number of hydrogen dispensers at the station
HRS Provisional – Number of nozzles	Number of hydrogen nozzles at the station
HRS Provisional – Price of hydrogen	Average hydrogen price at the dispenser during the reporting period
HRS Provisional – Number of buses	Number of hydrogen buses operational
HRS Provisional – Bus H2 pressure (initial)	Initial bus H2 pressure in relation to “Bus H2 pressure”