Table of criteria grouped per macro-criteria

Note: when the unit of measure is indicated as "-" it means that the input requested to the analysis is qualitative, e.g. far less, less, more, far more or very low, low, fair, high.

Detailed criterion	Unit of measure
ENVIRONMENTAL ASPECTS	
EMISSIONS OF GASES AND VAPOURS INTO THE ATMOSPHERE	
Quantity of climate-altering gas and vapour emissions released into the atmosphere annually compared to pre-conversion conditions	-
Quantity of pollutant gas and vapour emissions released into the atmosphere annually compared to pre-conversion conditions	-
Expected annual exposure time of flora and fauna compared to pre-conversion conditions	-
Potential impact on specific species sensitive to the released pollutant compared to pre-conversion conditions	-
DISCHARGE OF LIQUIDS INTO THE SEA	
Quantity of polluting liquids discharged into the sea annually compared to pre-conversion conditions	-
Expected annual exposure time of flora and fauna compared to pre-conversion conditions	-
Potential impact on specific species sensitive to the released pollutant compared to pre-conversion conditions	-
Absolute difference in pH value compared to pre-conversion conditions	-
Percentage increase in seawater salinity within a 50 m radius from the discharge point	%
NOISE AND VIBRATION GENERATION	
Amount of noise and vibrations produced compared to pre-conversion conditions	-
Expected annual exposure time of flora and fauna compared to pre-conversion conditions	-
Potential impact on specific species sensitive to the generated noise and vibrations compared to pre-conversion conditions	-
HEAT GENERATION	
Quantity of hot fluids discharged into the sea annually compared to pre-conversion conditions	-
Quantity of cold fluids discharged into the sea annually compared to pre-conversion conditions	-

Expected annual exposure time of flora and fauna compared to pre-conversion conditions	-
Potential impact on specific species sensitive to hot-cold fluids compared to pre-conversion conditions	-
LIGHT POLLUTION	
Quantity of artificial light produced annually compared to pre-conversion conditions	-
Expected annual exposure time of flora and fauna compared to pre-conversion conditions	-
Potential impact on specific species sensitive to the produced artificial light compared to pre-conversion conditions	-
ENERGY AND RESOURCE CONSUMPTION	
Quantity of primary energy consumed annually compared to pre-conversion conditions	-
SAFETY	
Quantity of flammable substances in liquid phase present on board the platform	kg
Quantity of flammable substances in gaseous phase present on board the platform	kg
Quantity of explosive substances in liquid phase present on board the platform	kg
Quantity of explosive substances in gaseous phase present on board the platform	kg
Quantity of toxic substances in liquid phase present on board the platform	kg
Quantity of toxic substances in gaseous phase present on board the platform	kg
Quantity of corrosive substances in liquid phase present on board the platform	kg
Quantity of corrosive substances in gaseous phase present on board the platform	kg
Quantity of environmentally hazardous substances in liquid phase present on board the platform	kg
Quantity of environmentally hazardous substances in gaseous phase present on board the platform	kg
Likelihood that damage areas generated by flammable substances on the platform under assessment may impact nearby manned platforms	-
Likelihood that damage areas generated by explosive substances on the platform under assessment may impact nearby manned platforms	-
Likelihood that damage areas generated by toxic substances on the platform under assessment may impact nearby manned platforms	-

Post-conversion safety zone in which access by unauthorized ships and aircraft is prohibited compared to the pre-conversion configuration	-
OPTION UTILITY	
Quantità di CO2 emessa annualmente rispetto alle condizioni di pre-riconversione	%
Annual CO_2 disposed of	kt/year
TECHNOLOGIES AND DESIGN	
Presence of an operational electric cable	-
Equivalent injection-withdrawal period during which the working gas is moved, considering the maximum flow rate of the sealine	months
Margin between the design pressure and the operating pressure of the sealine under post-reconversion conditions	-
Compatibility of the sealine with H_2 blends	-
Compatibility of the sealine with CO_2	-
Ratio between post-reconversion and pre-reconversion footprint indices	%
Available surface area on the weather deck for the installation of new equipment	m^2
Difference between removed and installed weights relative to the total surface area of the platform	kg/m^2
Presence of clusters	-
The emerged surface area of the platform Ł > di 270 m^2 ?	-
ENVIRONMENTAL AND TERRITORIAL COMPATIBILITY	
Margin between the expected wind speed and the maximum wind speed compatible with the equipment installed on board the platform	%
Difference between the average annual snow load and the maximum load capacity of the equipment on board the platform	%
Difference between the mechanical impact resistance required for hailstorms and the maximum mechanical resistance of the equipment on board the platform	%
Probability of a significant seismic event affecting the area within a given time interval (generally 50 years)	-
Photovoltaic (PV) plant yield	kWh/m^2
Presence of reservoirs	-

RESERVOIR	
Reservoir volume (GOIP)	10^9 Sm^3
Reservoir depth for CO2 disposal	m
Reservoir depth for CH4+H2 storage	m
Aquifer (water drive)	-
Disposal efficiency	%
Storage efficiency	%
Ratio between ideal number of wells and available slots	-
Is disposal depth between 1000 - 3000 m?	-
Is storage depth between 1000 - 3000 m?	-
Reservoir efficiency >30%	-
CONVERSION AND DECOMMISSIONING	
EMISSIONS OF GASES AND VAPOURS INTO THE ATMOSPHERE	
Impact due to climate-altering gas and vapour emissions released into the atmosphere from conversion and decommissioning operations	-
Impact due to pollutant gas and vapour emissions released into the atmosphere from conversion and decommissioning operations	-
DISCHARGE OF LIQUIDS INTO THE SEA	
Impact due to polluting liquids discharged into the sea from conversion and decommissioning operations	-
NOISE AND VIBRATION GENERATION	

Impact due to noise and vibrations produced by conversion and decommissioning operations	-
HEAT GENERATION	
Impact due to the release of hot fluids into the sea from conversion and decommissioning operations	-
Impact due to the release of cold fluids into the sea from conversion and decommissioning operations	-
LIGHT POLLUTION	
Impact due to artificial light produced during conversion and decommissioning operations	-
ENERGY AND RESOURCE CONSUMPTION	
Quantity of primary energy consumed during conversion and decommissioning operations	Million GJ
WASTE GENERATION	
Quantity of waste produced from conversion and decommissioning operations	kg/m^2
Quantity of recoverable waste produced during conversion and decommissioning operations	%

Table of binding criteria

Criterion detail	Macro-category	Binding for
Presence of deposits	ENVIRONMENTAL COMPATIBILITY	OPTION 2, 3
Depth of the CO_2 disposal deposit ≥ 1000 & ≤ 3000 m U.S.L.	RESERVOIR	OPTION 3
Reservoir depth for storage CH_4-H_2 ≥ 1000 & ≤ 3000 m U.S.L.	RESERVOIR	OPTION 2
Storage efficiency ≥ 30%;	RESERVOIR	OPTION 2
Sealine compatibility with H_2 mixtures	TECHNOLOGIES E DESIGN	OPTION 2
CO_2 compatibility of the sealine	TECHNOLOGIES E DESIGN	OPTION 3
Presence of clusters	TECHNOLOGIES E DESIGN	OPTION 1

The surface area of the platform is > of 270 m^2	TECHNOLOGIES E DESIGN	OPTION 1,2,3