

ECOMEMBRANE[®]
ENVIRONMENTAL TECHNOLOGY



Storage solutions for
HYDROGEN

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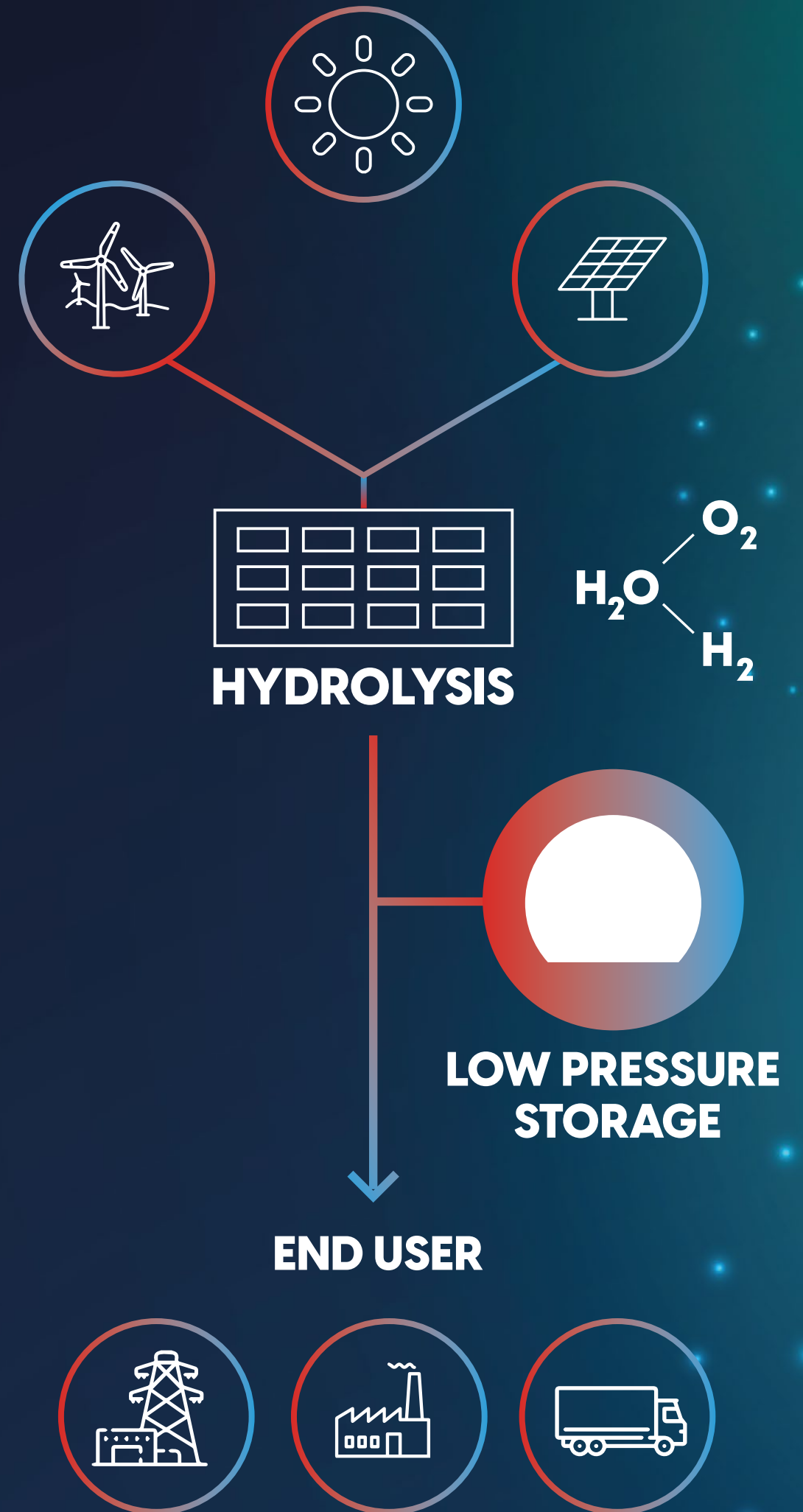
ECOMEMBRANE has a worldwide presence with more than 1200 installations and in-depth knowledge of the different markets, climates, regulations and legislation.

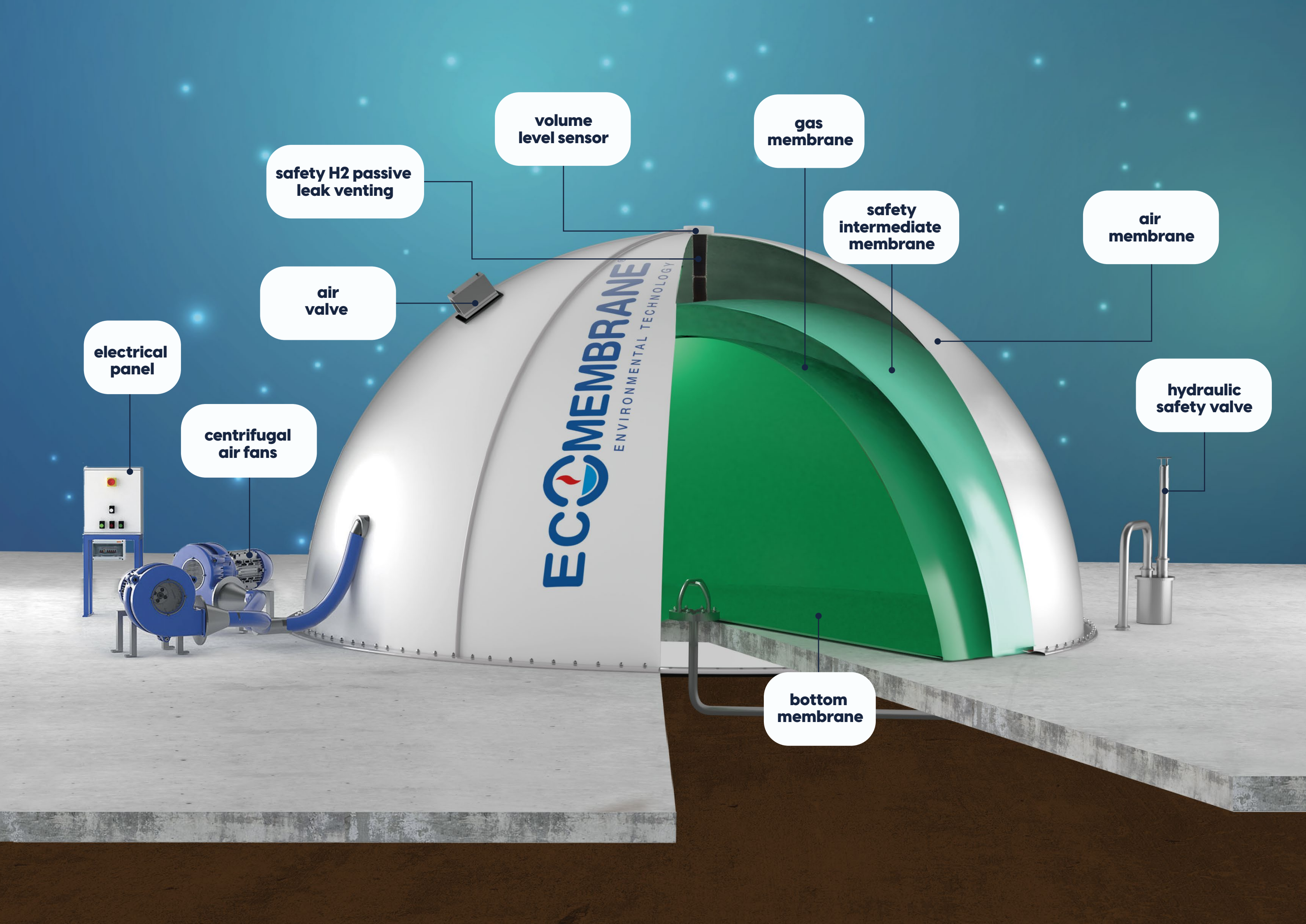
Our deep technical experience and ever-expanding work represent solid foundations for developing storage solutions dedicated to **NEW RENEWABLE ENERGY SOURCES - CH₄, CO₂ and H₂.**

H2 Master

PATENTED

The H2 MASTER gasholder is the only membrane gasholder able to safely **store hydrogen gas** with the **lowest investment costs** compared to other existing storage methods.





volume level sensor

gas membrane

safety H2 passive leak venting

safety intermediate membrane

air membrane

air valve

hydraulic safety valve

electrical panel

centrifugal air fans

ECOMEMBRANE
ENVIRONMENTAL TECHNOLOGY

bottom membrane

H2 Master

Main Characteristics

- Suitable for low-pressure storage of gaseous hydrogen (5-30 mbar)
- Gas flow rate to suit customer requirements
- Fast installation (1-5 days)
- Easy maintenance

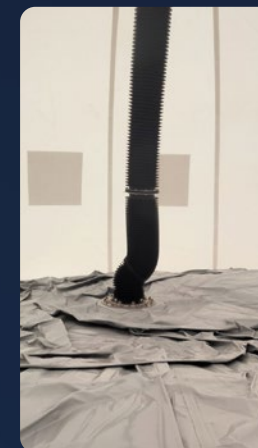
- Low hydrogen repressurization costs (on the basis of a single compression stage up to 30 Bar)

- Low electricity consumption



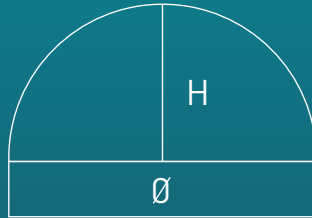
- Excellent safety from leaks

- Total control of volume and easy management of signals to the customer PLC





1/2 SPHERE



V (m ³)	ø max (m)	H (m)
10	3,40	2,20
30	4,90	2,95
50	5,80	3,40
80	6,80	3,90
100	7,30	4,15
150	8,40	4,70
200	9,20	5,10
250	9,20	5,45
300	10,50	5,75
400	11,60	6,30
450	12,00	6,50
500	12,50	6,75
570	13,00	7,00
600	13,20	7,10
700	13,90	7,45
800	14,60	7,80
900	15,10	8,05
1.000	15,70	8,35
1.200	16,70	8,85
1.500	17,90	9,45
1.800	19,10	10,05
2.000	19,70	10,35
2.200	20,40	10,70
2.500	21,30	11,15
3.000	22,60	11,80
3.500	23,80	12,40
4.000	24,80	12,95
4.500	25,90	13,45
5.000	26,80	13,90
6.000	28,50	14,75
8.000	31,30	16,15
10.000	33,70	17,35
12.000	35,80	18,40
14.000	37,70	19,35
16.700	40,00	20,50

TECHNICAL
RELIABILITY AND
INNOVATION

H2 Master

