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Introduction to H2Carrier AS

The P2XFloaterTM *The world's first floating production system for green ammonia*





Offshore oil and gas production



By combining leading industry expertise from oil and gas sector with offshore renewables and hydrogen know-how we have developed a cutting-edge **Power-to-X** platform



Near-shore green energy production



The P2XFloater[™] is an adaption and further enhancement of the trusted **FPSO** (Floating Production, Storage and Offtake) concept, a proven energy facility concept since the early 1970's. By operating in the intersection between land and sea, we are transferring green energy from power source, or grid, to maritime trade routes, whilst minimizing impact.



Time and cost	Public and regulatory affairs	Mobile asset	Social impact	Circular value chain
P2XFloater [™] has a significant cost advantage due to a fast track centralized EPCI process with an optimized design and construction period	The P2XFloater [™] is designed according to pre-defined classification standards to ease regulatory requirements	The P2XFloater [™] is able to relocate if circumstances regarding the power source should change	Local employment opportunities during operation phase. Avoid local "boom and bust" by using external work force and facilities during construction phase.	The P2XFloater™ is mainly composed of recyclable steel and has minimum permanent structural foundations





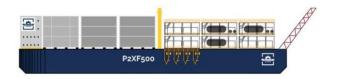
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Renewable power: **200MW** Green NH3 production: **163 000 t/y** CO2 emissions saved: 260 000 t/y Electrolyzer capacity: 175MW Hydrogen production: 27 300 t/y

Hull size: L: 230m x B: 32m

Tank volume: 80 000m3





Renewable power: **500MW** Green NH3 production: **409 000 t/y** CO2 emissions saved: 650 000 t/y Electrolyzer capacity: 438MW Hydrogen production: 68 400 t/y Hull size: L: 230m x B: 60m

Tank volume: 80 000 - 150 000m3



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	P2XF1000	<u>AAAA</u>	4

Renewable power: **1000MW** Green NH3 production: **818 000 t/y** CO2 emissions saved: 1 300 000 t/y Electrolyzer capacity: 875MW Hydrogen production: 138 000 t/y Hull size: L: 320m x B: 60m Tank volume: 100 000 – 150 000m3



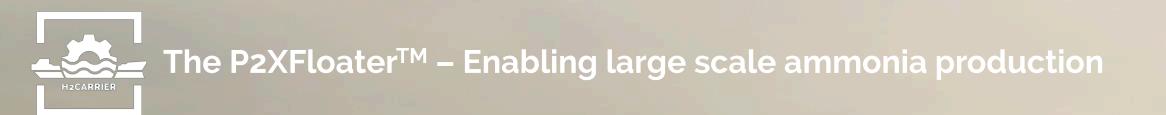
DNV

In 2022, H2Carrier engaged in a validation process with DNV

Documentation for the P2XFloater was reviewed and H2Carrier went through a hazard identification process (HAZID) with DNV

After this process, DNV awarded H2Carrier an approval in principle (AiP) for the P2XFloater design

		Statement no P4
		DN
	Approval in Prin	CIPLE
	This is to state that the design principl	es of the
P2X F	loater Ammonia Proc	luction Unit
Have been assessed by DNV	AS and found to comply with current rules	of this Society.
The design principles, speci	fied in /1/, /2/, have been assessed for compli	ance with the following class notation
⊕OI Ship-shap	ed Floating Offshore In	stallation
Field(qualifier)), POSMOOR, PROD, V	UWILD
	d design verification, taking into account the li commissioning, DNV considers that a Class (the Floating Injection Unit.	
Project owner:	H2Carrier A/S	
Limitations:	This statement does not constitute classi Classification, however DNV have no n documentation. General comments to th assumptions are stated in the associated	ajor comments to the received e design as well as relevant
Reference documents:	 /1/ Report on Approval in Principle Ref No /2/ DNV-OSS-103, "Rules for Classificatio Storage and Loading Units" July- 2021 	
Høvik, 2022-06-30		
for DNV AS	Digitally signed by Haug, Lars Tore	
Jan breakang	Date: 2022.07.01 13:02:02 +02'00'	Fagan, Corn
Lars Tore Haug Head of Section		Conn Fagan Project Manager
		1: +47 67 57 99 00



Project: Integrated wind & PtX developments in Lebesby/Gamvik

Through its subsidiary Arktis Energi AS, H2Carrier is developing a wind farm in Lebesby and Gamvik municipalities. The planning initiative has been sent and the formal application to the government (through "NVE") was sent mid-April 2024.

Conventional wind power developers are dependent on a significant upgrade and expansion of the grid in order to distribute new renewable power production. H2Carrier plans to consume all of the wind power on the P2XFloater for production of hydrogen and green ammonia, thus minimizing the need for grid upgrades.

The project is currently developed by H2Carrier with the intention to invite other renewable power and PtX companies to participate at a later stage



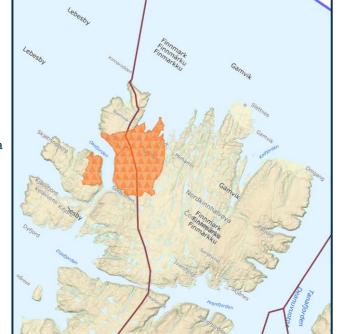
Lebesby/Gamvik municipalities



Production parameters

Area: 115km2 Renewable power: 950MW Capacity factor: ~48% Green NH3 production: 390 000tpa CO2 emissions saved: 624 000tpa Electrolyzer capacity: 855MW Hydrogen production: 69 600tpa Rotterdam 1 500 nm

www.lebesby.kommune.no www.gamvik.kommune.no



Project: Integrated wind & PtX developments in Lebesby/Gamvik

In parallel with the project in Lebesby/Gamvik, H2Carrier is developing plans for a wind farm in Berlevåg and Båtsfjord municipalities. Again, the plan is based on exploring new renewable resources without having to wait several years for a significant upgrade and expansion of the grid.

The formal application to the government (through "NVE") for the wind farm was sent mid-April 2024.

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Illustration of the P2XFloater™ located in Berlevåg, Finnmark



Berlevåg/Båtsfjord municipalities



Production parameters



www.berlevag.kommune.no www.batsfiord.kommune.no



The P2XFloater™

P2XFloater[™] enables access to renewable energy sites with the lowest cost of power which combined with centralized construction offers the lowest levelized cost of ammonia

Design developed for two years and Approval in Principle (AiP) of the design awarded by DNV

Green ammonia

Ammonia is an essential commodity for fertilizer production

Ammonia is a non-carbon energy carrier with high volumetric energy density which makes it attractive as a sustainable fuel within the maritime sector

Green ammonia uses water, air and renewable power as feedstock

H2Carrier AS

H2Carrier represents the link between renewables, shipping and Power-to-X. An investment in H2Carrier is a positioning for the future hydrogen-based economy

Huge untapped market potential enabling development of non-commercial renewable energy

Immediate exposure to large PtX development portfolio with significant upside from scaling of business, commodity prices and non-carbon incentives

Agile team with high ambitions and broad experience

H2Carrier AS is a member of:

