



PMI – CHE pipeline

«Clean Hydrogen to Europe» Project of Mutual Interest

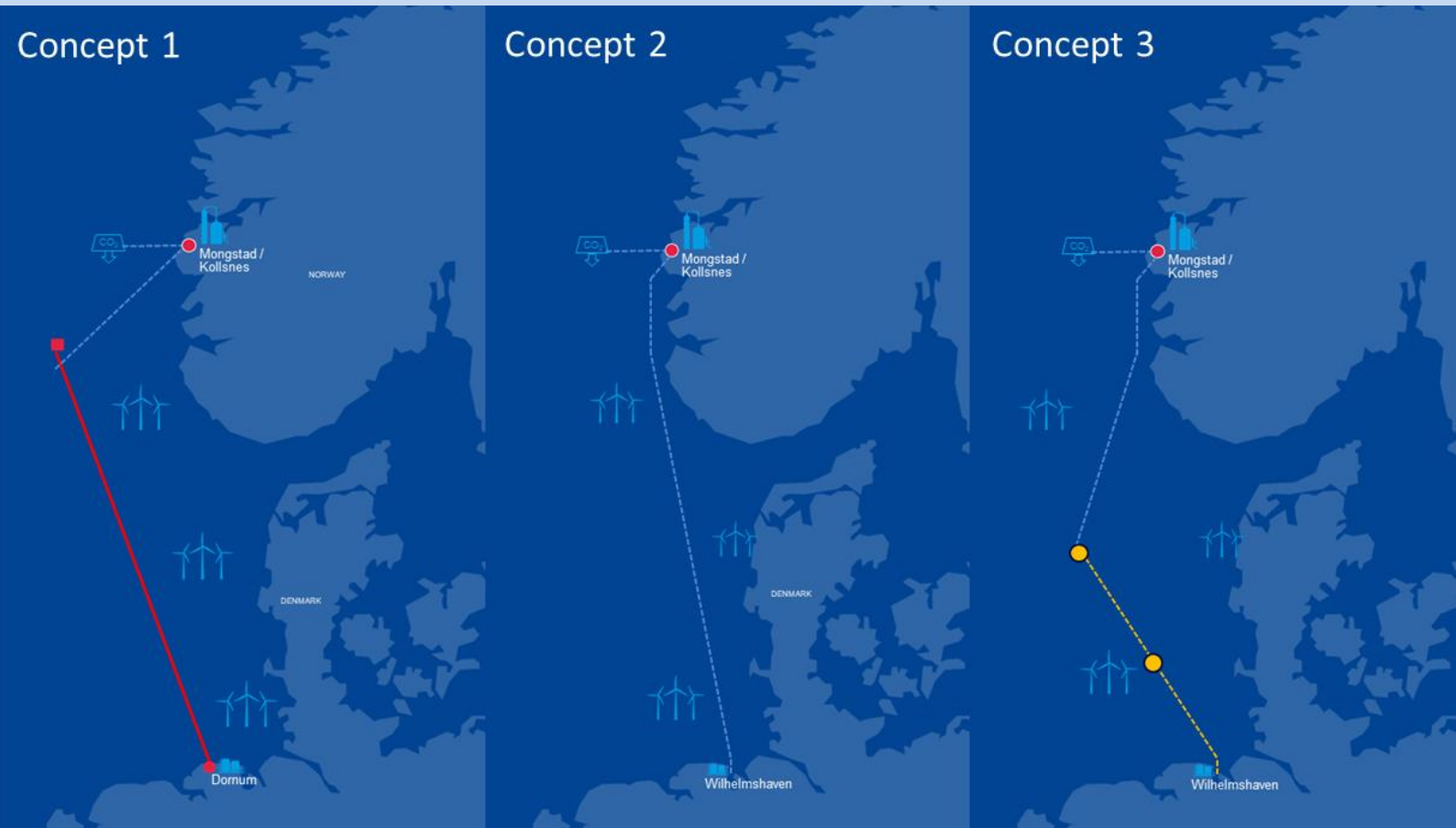
The CHE Pipeline project seeks to build a dedicated open-access high pressure hydrogen pipeline from the West coast of Norway to northern Germany. The design of the hydrogen transport infrastructure is under evaluation and will either be based on (1) a partially new- and-partially repurposed natural gas offshore pipeline, (2) a completely new offshore pipeline and (3) a new pipeline that is connected to the Aquaductus pipeline in the German sector.

In the repurposed case, a new hydrogen pipeline will be tied into the existing Europepipe pipeline with a subsea connection. Three options are currently under assessment for the pipeline section to Germany: (1) repurposed Europepipe 1 to Dornum, (2) new built pipeline to Wilhelmshaven (completely new from the hydrogen plant in Norway to Wilhelmshaven) and (3) tie-in to the Aquaductus pipeline.

The project also includes an onshore receiving terminal at the exit point of the pipeline in all cases, except for the Aquaductus case. In the Aquaductus case the receiving terminal will be part of the Aquaductus scope. The maximum transport capacity of a newly built hydrogen pipeline infrastructure is up to 18 GW (4 Mt/y of hydrogen). This hydrogen pipeline infrastructure will allow low-carbon and renewable hydrogen produced in the North and Norwegian Sea Basin to directly connect to the transport pipeline.

Transport Concepts

The project currently has 3 concepts under review :



Concept 1

New 360 km 40'' offshore pipeline from the West coast of Norway to Draupner with the expected maximum transport capacity of 9 GW. The new pipeline will be tied into the Existing Europipe pipeline, which will be disconnected from the natural gas network and re-qualified for hydrogen transport. Europipe will also be disconnected from the existing receiving terminal in Dornum and connected to a new receiving terminal for hydrogen in the same area. Europipe is approximately 600 km long and 40'' in diameter. The capacity of this concept is pending confirmation from DNV, due to ongoing evaluations of Europipe, but is expected to be in the range 8 to 18 GW.

Concept 2

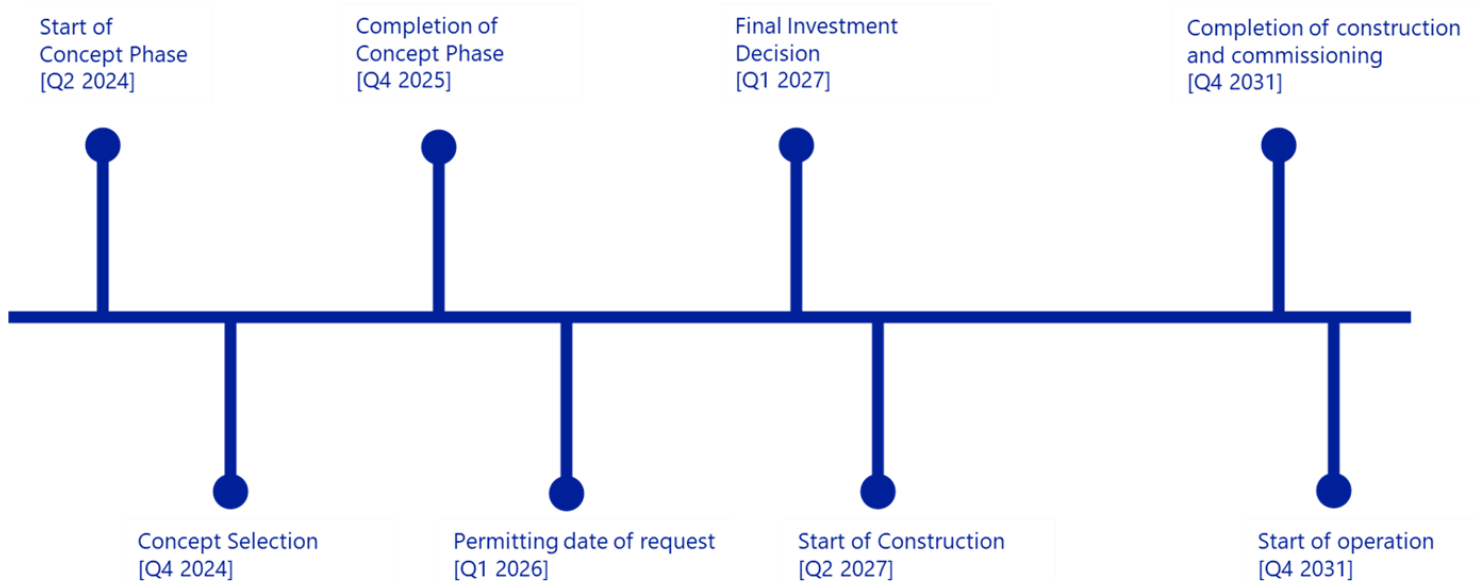
New 937 km 40'' offshore pipeline from the West coast of Norway to a new built receiving terminal in the Wilhelmshaven area. The capacity of this concept is 18 GW.

Concept 3

New 600 km 40'' offshore pipeline from the West coast of Norway to tie-in point to Aquaductus at the entry to the German EEZ (Aquaductus phase 2). From this point the hydrogen will be transported to a new built receiving terminal in the Wilhelmshaven area. The capacity of the pipeline from Norway to the Aquaductus tie-in point is 18 GW.

Project timeline

The CHE pipeline project is currently on the following schedule:



Contact Information

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The CHE pipeline project is included in the list as "9.25 Offshore hydrogen pipeline Norway – Germany [currently known as CHE Pipeline]" (in the [new list of EU energy Projects of Common and Mutual Interest \(europa.eu\)](#) and part of CH2-4EU PRJ group included in the updated 2022 TYNDP from ENTSOE.

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