

PROJECT

## **GASVESSEL**

### **Compressed Natural Gas Transport System**

**Funding:** European (Horizon 2020)

**Duration:** Jun 2017 - May 2021

**Status:** Complete

**Total project cost:** €11,997,163

**EU contribution:** €11,997,163



**Call for proposal:** H2020-MG-2016-Two-Stages

[CORDIS RCN : 210914](#)

#### **Objectives:**

The GASVESSEL aims to prove the techno-economic feasibility of a new CNG transport concept enabled by a novel patented Pressure Vessel manufacturing technology and a new conceptual ship design including safe on- and offloading solution. It carries out research and innovates different steps in the value chain from a decision support model to simulate and benchmark scenarios until the process of ship design, new Pressure Vessel designs and manufacturing as well as novel high pressure on- and offloading.

The project supports the European Commission's Maritime Transport Strategy in which maritime transport is considered key to securing Europe's energy supply. It sets the knowledge base for identifying where the novel CNG concept has added value, develop prototype technologies and related business cases, promote the concept with end-users and foster market introduction, first in Europe, and subsequently beyond.

The GASVESSEL project contributes the Energy Union to become less dependent on energy imports by serving as a flexible interconnector which enables energy to flow freely across the EU. The project will make it possible to supply natural gas to places where natural gas is not yet a part of the energy supply e.g. where large investment in regassifiers are not feasible or done (yet) such as the Mediterranean Islands. The concept offers novel cost effective gas transportation and hence promising prospects to start using and monetising the huge amount of currently wasted (flared), stranded and associated gas which is currently wasted or not used, while contributing to reducing an important environmental side effect of global oil exploitation.

The validation and proof of concept of the GASVESSEL project is performed by a cost-benefit analyses (financial viability), safety assessment, environmental impact analyses and value chain business cases development in relation to real-life geo-logistic scenarios.

#### **Parent Programmes:**

[H2020-EU.3.4. - Horizon 2020: Smart, Green and Integrated Transport](#)

**Institute type:** Public institution

**Institute name:** European Commission

**Funding type:** Public (EU)

#### **Lead Organisation:**

**Navalprogetti Srl**

**Address:**

VIA DEI PAPAVERI 21  
34151 TRIESTE  
Italy

**EU Contribution:** €2,004,538

## Partner Organisations:

### **Dowaksa Deutschland Gmbh**

**Address:**

AN DER B91  
06258 SCHKOPAU  
Germany

**EU Contribution:** €1,155,375

### **Esteco Spa**

**Address:**

Localita Padriciano 99  
34012 Trieste  
Italy

**EU Contribution:** €443,500

### **American Mpiro Of Siping Hellenic Monoprosopi Etaireia Periorismenis Evthinis, American Bureau Of Shipping**

**Address:**

SACHTOURI 01 & NAVARINOU  
17674 KALLITHEA ATHENS  
Greece

**EU Contribution:** €496,400

### **Sintef Ocean As**

**Address:**

Brattørkaia 17B  
7465 Trondheim  
Norway

**EU Contribution:** €551,875

### **Hanseatic Lloyd Schiffahrt Gmbh & Co Kg**

**Address:**

CONTRESCARPE 45  
28195 BREMEN  
Germany

**EU Contribution:** €231,225

### **C.n.g.v., Inzeniring, Raziskave In Trzenje Rezervoarjev Za Stisnjen Plin Doo**

**Address:**

VELIKI TRG 17  
6310 IZOLA ISOLA  
Slovenia

**EU Contribution:** €1,783,100

### **Cenergy Srl**

**Address:**

VIA DELLA ZONTA 2  
34122 TRIESTE

Italy

**EU Contribution:** €345,600

**Public Joint Stock Company Engineering And Production Enterprise Vnipitransgaz**

**Address:**

77 ARTEMA STR  
KYIV  
04050  
Ukraine

**EU Contribution:** €243,413

**Etaireia Ydrogonanthrakon Kyprou (E.y.k) Ltd**

**Address:**

STROVOLOU 53 VICTORY BUILDING  
2018 STROVOLOS NICOSIA  
Cyprus

**EU Contribution:** €535,350

**Dow Deutschland Anlagengesellschaft Mbh**

**Address:**

BUTZFLETER SAND 2  
21683 STADE  
Germany

**Organisation Website:**

<http://www.dowdeutschland.com>

**EU Contribution:** €497,525

**Bm Plus Srl**

**Address:**

VIA D'ORMENT 14  
33042 BUTTRIO  
Italy

**EU Contribution:** €3,420,550

**Pno Innovation**

**Address:**

EXCELSIORLAAN 51  
1930 ZAVENTEM  
Belgium

**EU Contribution:** €288,713

**Technologies:**

Ship design and manufacturing  
Ship design for CNG transport

**Development phase:** Research/Invention

**STRIA Roadmaps:** Low-emission alternative energy for transport  
Water transport (sea &

**Transport mode:** inland)

**Transport sectors:** Passenger transport, Freight transport

**Geo-spatial type:** Other