

JUNE 2022

NEWSLETTER No. 5



This project shows the importance of international cooperation, combining competences and knowledge across borders and clashing professionals from various industries. We show not only the theory, but above all ready-to-implement projects that affect the lives of ordinary people and change the world. We are also contributing to the energy transformation and making our European economies greener and more environmentally friendly, which is extremely important in today's dynamic times.

PAWEŁ WARSZYCKI

HANSEATIC INSTITUTE FOR ENTREPRENEURSHIP
AND REGIONAL DEVELOPMENT AT THE UNIVERSITY
OF ROSTOCK

POST-PANDEMIC STUDY VISIT IN GDAŃSK

After a two-year break related to the pandemic, the Liquid Energy's partners met for the first time offline during a two-day study visit to Gdańsk (May 16-17).



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GRAND PREMIERE OF THE MOBILE STATION

In addition to summarizing the activities to date, on the first day of the visit, a mobile LNG or bioLNG refueling station was presented.

“The station with only 3.5 tons of gross vehicle weight is an absolute novelty on the fuel distribution market. This innovative prototype shows what a microscale technology to distribute liquid methane as an alternative energy source could look like.

PAWEŁ WARSZYCKI

The station was commissioned by the project leader of the Maritime Institute of Gdynia Maritime University.

“Thanks to it, it will be possible to use bioLNG and LNG, e.g. as a source of vehicle propulsion in local public transport or as a source of clean energy in production plants and office buildings.

GRAŻYNA PAZIKOWSKA

MARITIME INSTITUTE

The station appeared on the streets of the Tri-City for the first time.

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Currently in Rostock, the last parts are assembled at the station, the delivery of which has been delayed due to the war in Ukraine.



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METROPOLITAN GREEN ANALYZES

On the second day of the study visit, the project partners visited the **Waste Treatment Utility in Gdańsk**. At the request of the **Metropolitan Area Gdańsk-Gdynia-Sopot**, experts are investigating the possibility of using LNG and bioLNG obtained from waste at the plant for fuel production.

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The plans of the fuel companies related to the development of LNG infrastructure indicate that there is a future ahead of this fuel. The president of Waste Treatment Utility has no doubts about it.

During the visit to the Waste Treatment Utility in Gdańsk, the partners of the Liquid Energy project saw the degassing system of the landfill. President Grzegorz Orzeszko talked about the operation of this complicated system.

“We have over 300 wells that are connected to 13 collection stations. The stations are connected by collectors to one suction pipe. This is one great system of communicating vessels. Changing the parameters of one part requires adjusting the others. This system is installed on an area of over 20 hectares. It is miles of pipeline. The amount of gas produced is variable, depending on the “life” stage of a given landfill quarters. Metagenic processes change depending on the waste storage period. At the moment, we are able to recover a maximum of 700-800 cubic meters per hour of gas with a methane content of 55 percent.

GRZEGORZ ORZESZKO

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Initially, there were a few issues to resolve. The engine shell was too high. It was necessary to disassemble it, shorten and reassemble in order to align the engine with the propeller shaft line. Fortunately, we found the right weather, because the resin should cure in the temperature range of 15 - 25 degrees Celsius.

PRZEMYSŁAW RAJEWSKI

ASSOCIATION FOR THE PROMOTION KNOWLEDGE ABOUT SEA

Eventually the operation was successfully completed!

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“MAGDA I” GOT A NEW LNG ENGINE

Finally the “Magda I” ship has the most important component of its structure. On the 23rd of May 2022 at the Szczecin Shipyard the engine with natural gas as a fuel was placed on the ship.



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LBG FOR GREEN TRANSPORT. FIRST CROSS BORDER FORUM OF LIQUID ENERGY PROJECT


LITHUANIAN MARITIME CLUSTER

Partnership events series

LBG FOR GREEN TRANSPORT

8 March 2022
10:00 EET | **Online**
Save the date!

Registration & Event info:
www.kmtp.lt
www.maritimecluster.lt

In order to develop a climate-neutral economy, LBG (liquefied biomethane gas) is seen as a high-potential alternative in the shipping and heavy duty transport sectors. International business community, technology developers and providers were discussing this topic on 8 March 10:00 during the event “LBG for green transport”.

The event was organized by the Lithuanian Maritime Cluster, its coordinator Klaipeda Science and Technology Park (Lithuania), participating in the Liquid Energy project, and the Shipping & Offshore Network (Norway).

The webinar brought together technology developers and representatives of different transport sectors that are already applying these solutions and also those who are interested in such opportunities.

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LIQUID ENERGY PROJECT AT THE NATIONAL BIOMETHANE CONGRESS IN WARSAW

The 5th National Biomethane Congress was held on 30-31 May 2022, Airport Okęcie Hotel, Warsaw, Poland (standard and online formula). It was the biggest national meeting of the biogas and biomethane industries. The event, organized by the Biomass Media Group, the publisher of the “Biogas and biomethane market” and the “Biogas investor’s guide”, was a response to the growing interest in biomethane in Poland – a renewable gas with enormous development potential.

The possibilities of using liquefied biogas as part of the Liquid Energy project was presented by Mariusz Sadłowski, MAGGS energy and environment coordinator and director of the Energy Office of the City Hall in Gdańsk.

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As part of the EU project Liquid Energy, on behalf of MAGGS, experts conduct analysis for the needs of Trolleybus Transport Company in Gdynia, Gdańsk Shipping LTD and Waste Treatment Utility in Gdańsk. They check, among others, whether Gdańsk garbage trucks and water trams run on ecological fuel made of liquefied gas and can it be a source of energy for Gdynia trolleybus networks. The expertise is almost ready. Conclusions from these studies were presented during the congress in Warsaw.

MARIUSZ SADŁOWSKI

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Gastech

Gastech
Hydrogen



EXHIBITION & CONFERENCE
FIERA MILANO, ITALY 5-8 SEPTEMBER 2022

Co-Hosts

Baker Hughes

TELLURIAN



LIQUID ENERGY AT THE GASTECH 2022. LET US MEET IN MILAN

Liquid Energy will be present at GASTECH 2022, the world's largest exhibition and conference for the gas, LNG, hydrogen, and energy industry. It is an annual international event, where the global energy market stays in the focus of discussion. Gastech was established in 1972 by a group of leading engineers in the sector. Gastech2022 will be celebrating its 50th anniversary from 5th-8th September in Milan. This is a place that enables the conversation, collaboration and connections that shape the energy, natural gas, LNG and hydrogen industry towards a low-carbon, affordable energy future for everyone. The event plays a pivotal role in the future of energy providing the global platform to annually convene energy ministers, thought leaders and innovators.

Visit us at the stand number 15H64.

[>>>READ MORE](#)

www.l-energy.org

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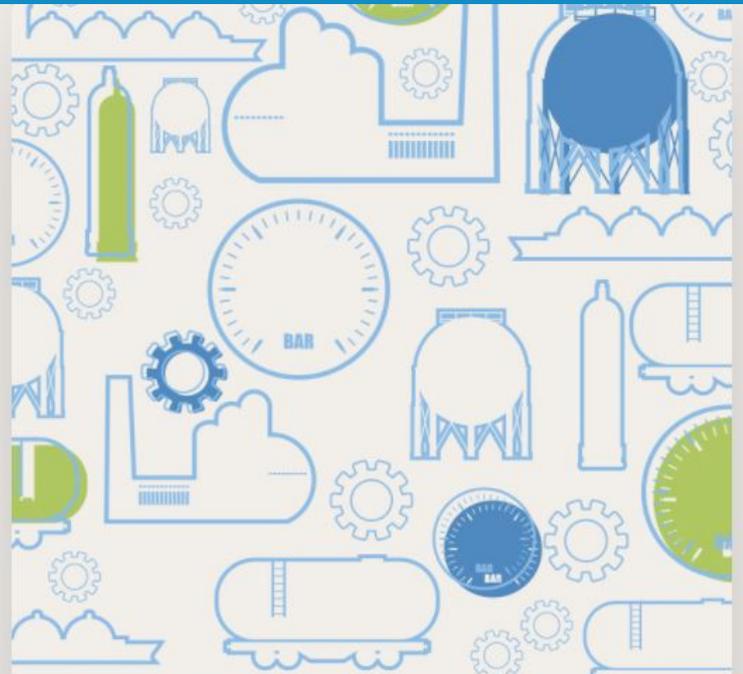
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Improving South-Baltic

The project aims at creating new products and services using innovative LNG-related technologies.

Its unique character offers an opportunity to unlock a new market for (bio-)LNG technology (products and services) addressing so far untapped target groups.



FOLLOW LIQUID ENERGY'S UPDATES ON SOCIAL MEDIA. CLICK ON THE ICONS BELOW!

We publish current information on the activities of the Liquid Energy project on Facebook, Twitter and LinkedIn as well as on our website www.l-energy.org. There you can find more photos, videos and reports on the progress of work on our prototype investments in Rostock and Szczecin.

