

PRESS RELEASE

LOGSTOR presents recycled material in District Heating pipes

- Another strong environmental initiative

LOGSTOR

LEMVIG VARMEVÆRK a.m.b.a.



PLASTIX

BROEN
VALVE TECHNOLOGIES

As the market leader in the pre-insulated pipe industry, we have taken another important step towards a more sustainable future, with the development of district heating pipes wholly or partially produced from recycled material. This pioneering initiative will change the industry and focus on recyclable plastics not seen before in District Heating.

This is the first step in a LOGSTOR-vision that aims at 100% recycling and circular economy. As pioneers in the industry, it is our duty to address the challenges of the world and make a difference for the environment and future generations.



CASING FROM RECYCLED PLASTIC

The first step in our journey is to produce HDPE casing with high content of recycled plastic. In the long run, it is an aspiration that the recycled material will come from various return systems. We are critical in qualifying the raw material, and we continuously test that the quality meets both the industrial as well as our own high internal requirements for quality and service life. In the future, a LOGSTOR product with recycled plastic may contain recycled plastic from the utility company that purchased our pipes in the past or excavated and discarded HDPE water pipes, which have been returned, processed and recycled.

Before we can realize our vision of 100% recycling, we need to change the product standard in the industry, which today only allows use of recycled HDPE material from in-house production.

*"We take upon ourselves to challenge this standard. As a responsible producer, we wish to contribute to the circular economy. Through numerous tests, we have documented that recycled material of different origins can be added to our casing material and still meet the standards - **and we guarantee this quality**"*, says Senior Director Innovation from LOGSTOR Martin Lindgaard Pedersen.

Our long-term vision is to produce the whole pipe including media pipe, foam and casing from recyclable materials. This is technically possible and we will of course ensure that the quality and service life of LOGSTOR systems remain the same.

FROM FISHING NET TO DISTRICT HEATING PIPE

In this exciting journey, we joined forces with different experts, and together created the world's first District Heating pipe with recycled plastic.

Lemvig Klimatorium, Denmark's future international climate center is the first project to use District Heating pipes with recycled plastic.

Our partners in this project include **Lemvig Varmeværk**, **BROEN** and **Plastix** who joined forces to find ideas for usage of plastic collected in the sea. *"Our fantastic collaboration has resulted in Lemvig Klimatorium installing the first District Heating pipes with a casing produced from recycled Green Plastic from old fishing nets and trawls. We are really proud of this"*, says Thomas Byskov from Lemvig Varmeværk.

As a manufacturer of Green Plastics, **Plastix** is an important player in this journey. Responsible handling of our plastic waste and re-usage is critical in order to solve the increasing plastic pollution of the world seas. *"We have a desire to integrate Green Plastics into products, therefore it is important that we support the industry's front runners like LOGSTOR, who exhibit the will, capability and courage to lead this change,"* says Hans Axel Kristensen, CEO of Plastix.

The third member is **BROEN Valve Technologies**. District heating is an important element of the green transition, and as a supplier to this industry, the company contributes to a more sustainable energy sector. For the Lemvig Klimatorium project,

BROEN supplied a valve, BROEN Ballomax® prototype, which offers remote monitoring. This provides the district heating plant with better knowledge about the valve solution in operation, more reliability, fast and easy troubleshooting and optimization of temperature and pressure conditions, all supporting a more energy efficient district heating system.

"In addition to contributing to an energy efficient district heating system, we have also digitized District Heating. Our IoT solution allows full integration with the customer existing SCADA system, thus giving the customer better knowledge about the valve in operation", says Stefan Fjord Rask from BROEN.

CUSTOMER VALUE

District heating is the most energy efficient way of heating buildings. For more than 30 years, LOGSTOR has been working to reduce heat loss from pre-insulated pipe systems through better insulation and new systems. Mainly, our focus has been to develop pre-insulated pipe systems with long service life and the lowest possible heat loss. In addition to the lowest service life costs for the heat plants, it also ensures the most energy efficient systems with the lowest CO2 footprint for the benefit of the environment.

"This will of course continue, however we are now taking another big step by ensuring that all the materials included in our pre-insulated pipes and components must be recyclable and using other recycled materials in our production. This is of course with the same quality and service life of LOGSTOR's pre-insulated pipe systems", says Product & Academy Manager from LOGSTOR Peter Jorsal.



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About LOGSTOR

LOGSTOR is a leading supplier of pre-insulated pipe systems for energy efficient transport of liquids and gases for district heating, cooling and industrial purposes as well as oil and gas pipelines. The systems include flexible and fixed pipes, joints, fittings and surveillance systems. More than 50 years ago, LOGSTOR invented the technology behind pre-insulated pipes, and since that invention, the company has supplied over 200,000 km of pre-insulated pipes.

LOGSTOR's headquarter is in Løgstør, Denmark, with subsidiaries in Finland, Sweden, England, Germany, Austria, France, Italy, Switzerland, the Netherlands, Poland, Lithuania and Romania, as well as a network of distributors and sales agents

in more than 20 countries. Our company's seven factories are located in Denmark, Poland, Sweden and Finland with complementary mobile production facilities in Canada and India. Our company employ more than 1,200 employees.

LOGSTOR is owned by Triton's Fund III. Triton is an investment company that invests in medium-sized companies in Northern Europe, Italy and Spain. Triton focuses on companies that have the potential to create sustainable, long-term value through changing business cycles and work closely with management to achieve this goal. Triton's funds have currently investments in companies with a total turnover of EUR 15bn. and more than 72,000 employees.

FOR FURTHER INFORMATION ABOUT THE PROJECT, PLEASE CONTACT:

LOGSTOR A/S

VP, Group HR &
Communication
Torben Reimer
+45 2224 8222
torei@logstor.com

PLASTIX A/S

Hans Axel Kristensen
CEO, PLASTIX A/S
v/ Executive Assistant
Fenella Metz
+45 54 55 55 05
fenella@plastixglobal.com

Lemvig Varmeværk

Thomas Byskov
Distribution Manager
+45 9781 0233
tb@lemvig-varmevaerk.dk

BROEN

Skowvej 30
5610 Assens
Denmark
+45 6471 2095
broen@broen.com