

Waste-to-energy company tackles CO₂ emissions with large-scale CO₂ capture installation

Duiven, 29 May 2018 - AVR will start, as the first waste-to-energy company in the Netherlands, with the construction of a large-scale CO₂ capture system and radically seeks to reduce its greenhouse gas emissions. The waste energy company made this announcement today. The CO₂, released at AVR after the incineration of residual waste, serves as an important raw material for the growth of crops as an alternative to CO₂ from natural gas. This installation should be operational, at the AVR location in Duiven, in a year's time. With this step the waste energy company contributes directly to the CO₂ reduction in the Netherlands and in reaching its climate targets.

The construction of the CO₂ capture plant in 2019 means that 60 Kton CO₂ is expected to be captured and recycled. This is 15% of the total CO₂ emissions in Duiven. The CO₂ to be captured by AVR will be transported by Air Liquide to greenhouse horticulture areas in the Netherlands. There CO₂ needed to stimulate the growth of vegetables, soft fruit, flowers and plants. Especially in the summer, horticulturists have the need for a substantial amount of CO₂ in order to grow their crops. Should AVR find an additional customer in the winter, the total CO₂ captured may rise to a maximum of 100 kton.

Michiel Timmerije, Director of Energy & Residues at AVR: "After a lot of effort and development this first installation is for AVR a test case that should result in making capture installations more efficient in the future and will help to utilize residual waste for a 100%. We are researching the possibilities of building a similar CO₂ capture installation at our location in Rozenburg (Port of Rotterdam). We aim for the capture and application of 800,000 tons of CO₂ annually. To achieve this we don't only look at greenhouse horticulture, but also at the sustainable applications of CO₂ for example in building materials such as concrete, basic chemistry for plastics and biofuels. We can use all the support and help from the government, politics, but also from the business community and startups. "

Lars Strandberg, Vice President Air Liquide North West Europe said: "We are pleased to partner with AVR. This project will strengthen the liquide CO₂ supply and availability for this growing market. Air Liquide is committed to improve and optimise the CO₂ footprint and thus contribute to circular economy.

Berno Schouten, Lingezege Energy: "At the moment we use 20 to 25 million m³ of gas with which we produce heat, electricity and CO₂ for several greenhouse horticulture companies. We are constantly looking for alternative sustainable energy sources to heat greenhouses. The switch to sustainable energy sources goes hand in hand with a sustainable and reliable CO₂ source. We wholeheartedly support this AVR initiative and pave the way for us to take further steps in the phasing out of fossil fuels. "

About AVR

AVR specializes in the processing of various types of residual waste and converts this residual waste into energy and raw materials for households and businesses. It is our ambition to create a clean world in which nothing remains unused. AVR makes something which seems worthless valuable again.

About Air Liquide BENELUX

Air Liquide has been operating in Belgium since 1906 and in the Netherlands since 1913. The company runs 27 industrial sites in the Benelux. Today, the Group employs more than 1,200 employees in all activities and supplies more than 65,000 customers and patients. The Industrial Merchant Activity of Air Liquide Benelux supplies industrial gases as well as innovative solutions, including technologies, equipment and services.

About Lingezege Energy

Lingezege Energy is the collective energy company of several affiliated greenhouse horticulture companies located in the Horticulture Area Next Garden located between Arnhem and Nijmegen. The objective of Lingezege Energy is to provide sustainable energy supply for greenhouse horticulture companies by 2021.

NOTE EDITORS (NOT FOR PUBLICATION)

For more information, please contact: Henriëtte Verhoeff, spokesperson AVR, 06-22991450