

Hafslund Oslo Celsio: The world's first partner for Net Zero Plastic

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Hafslund Oslo Celsio (Celsio) is the world's first company to enter into a partnership with Net Zero Plastic (NZP). The collaboration aims to build a new market for the removal of non-recyclable, fossil plastics from the cycle. NZP and Celsio will, through the trading platform, contribute to solving the world's fossil plastic problem and realise carbon capture projects in the waste incineration industry globally.



Celsio waste incineration plant at Klemetsrud **Hafslund Oslo Celsio, Einar Aslaksen**

The world has a major plastic problem, where the production and final treatment of fossil plastic products presents major climate and environmental challenges through CO_2 emissions and the spread of microplastics in nature and the sea. Large amounts of plastic cannot be recycled for various reasons, and the NZP platform offers sustainable management of this non-recyclable plastic with the elimination of CO_2 emissions and pollutants.

"At Celsio, we strongly believe in NZP and their model to help solve the world's plastic problem and at the same time create business opportunities for waste incineration plants with carbon capture," says Jannicke Gerner Bjerkås, Director of CCS and Carbon Markets at Hafslund Oslo Celsio.

"We believe that Plastic Elimination Certificates (PECs) will be an important supplement to the sale of CO₂ removal certificates on the voluntary market, and together these two concepts will make it possible to generate new revenue streams™ from both the fossil and biogenic_{CO₂} we will capture. This is essential to finance such carbon capture projects, and we look forward to contributing to the development of NZP," continues Bjerkås.

NZP is building an international market platform for buying and selling Plastic Elimination Certificates™ (PECs). The partnership with NZP gives Celsio the right to sell plastic elimination certificates issued by NZP on their platform. This means that Celsio can offer a manufacturer or consumer of a plastic product to purchase certificates for the removal of an equivalent volume of plastic that they produce/use in their products. In this way, non-recyclable, fossil plastics can be certified as Net Zero Plastic.

Waste incineration of the plastic fractions that cannot be reused or recycled, combined with carbon capture and storage (CCS), offers several advantages:

- Production of electricity and district heating based on surplus energy from waste incineration.
- This avoids the disposal of non-recyclable plastic fractions and the spread of microplastics in nature.
- Pollutants are removed from the cycle with thorough cleaning of the flue gas.

"Although progress is being made to reduce the amount of plastic used for packaging, and more countries are increasing the recycling of plastic bottles, many millions of tonnes of non-recyclable plastic waste will continue to be produced for many years to come. Elimination of this plastic with energy recovery with_{CO₂} capture is the best solution to avoid plastic waste ending up in the wrong place and turning into pollution. Many companies are investing in building carbon capture plants, but most need help with the remaining uncovered costs. This is what we have created NZP to contribute. Hafslund Oslo Celsio is leading the way in building and operating CO₂ capture for energy recovery, and now they can also lead the way with innovative financing of_{CO₂} capture projects," says Todd A. Flach, Managing Director, Net Zero Plastic.

Facts of the case:

- Celsio's CCS project is in a cost-reducing phase with the aim of getting carbon capture at Klemetsrud in place to achieve Oslo's climate goals.
- An important part of the project during this period is to reduce costs and identify new business opportunities. The sale of CO₂ removal allowances (BECCS) and certificates for removal of fossil plastics from the cycle have been designated as possible future sources of income for waste incineration plants with carbon capture.
- Hafslund Oslo Celsio in September signed a cooperation agreement with Net Zero Plastic to sell PECs. This, as well as the sale of certificates from CO₂ removal, is expected to help close the financing gap for construction and operation of the carbon capture plant in Oslo.

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