

PRESS RELEASE: Dinex Aims to Revolutionize Catalyst Coated Membranes for Fuel Cell Technology



going the extra mile

April 2023



Dinex has announced its arrival in the alternative energy sector. The company will expand its activities into development and production of catalyst coated membranes (CCM) as one of the core parts for fuel cells. With its experience and an innovative approach to catalyst technology, Dinex aims to make a significant impact in the heavy duty, stationary and marine applications markets.

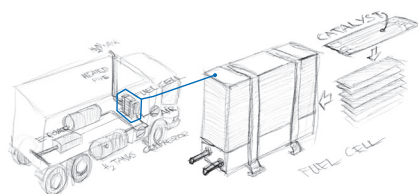
Fuel cell technology has been hailed as an important part of the future of energy infrastructure offering a clean and sustainable alternative to traditional fossil fuels. The focus on developing catalyst coated membranes will enable Dinex' customers to offer highly efficient fuel cell systems. These fuel cell systems will have significant advantages compared to other powertrain technologies, including improved fuel efficiency, zero emissions, and increased durability.

"CCMs ensure that the oxidation of the hydrogen and the reduction of the oxygen are spatially separated and that the chemical energy stored in the hydrogen can be used as electrical energy. Our catalyst layers on the anode and cathode side enable and effectively support each reaction. And the resulting exhaust then is mainly water vapor!"



Evangelos Georgiadis, CTO, Dinex Group

Dinex' mission is to provide highly efficient CCM that can meet the unique needs of heavy duty trucks, stationary and marine applications. The company is going to invest into a new R&D laboratory and build up a dedicated department. Together with a team of experienced professionals, Dinex is committed to using the latest technology to provide innovative solutions



What is a Catalyst Coated Membrane?

The CCM is the key component in a fuel cell that promotes the chemical reaction between Hydrogen and Oxygen, to produce an electric current to power a vehicle without generating any other by-products than water. In a typical Fuel Cell, the CCM represents up to 50% of the value of the complete fuel cell stack.

to their customers. This approach will enable them to create highly efficient fuel cell systems that can operate in the most demanding environments. Start of production for the CCM line is planned for 2025/2026.

"We are excited to be entering the alternative energy sector and to be focusing on fuel cell technology. Our goal is to create CCMs for highly efficient fuel cell systems which is an important part of the puzzle in transitioning towards clean and sustainable energy for heavy duty, stationary and marine applications. We believe that our approach will enable us to make a significant impact in this industry."



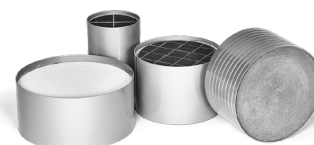
Dr. Hans-Jörg Rembor, Innovation manager
Dinex Group

With the global push for more sustainable energy sources, the demand for fuel cell technology is rapidly increasing.

"Dinex is well positioned to meet this demand, with its knowledge in catalyst technology for exhaust after treatment systems, coating solutions for all kind of surfaces and globally, long-lasting customer relationships in the main market segments, in which fuel cells will play a major role for decarbonization. Our vision is to become a leading player in this part of the alternative energy sector, offering innovative solutions to meet the unique needs of industrial applications."



Torben Dinesen, CEO, Dinex Group



Who is Dinex?

With 2.000 employees globally and an annual turnover of over 295 m€, Dinex is a global developer and manufacturer of innovative Exhaust AfterTreatment Solutions for the Heavy Duty OEM-Industry and AfterMarket. With 40 years of experience, Dinex is well-known for its inhouse developed catalytic coatings and particulate filter technologies – among other solutions in the field of cleaning exhaust emissions.