

## Superior solutions through joined forces with technology leader

**cembrane**  
clean water for life

**CERAFILTEC**  
CLEAN WATER. EVERYWHERE.

### THE CERAMIC FILTRATION ALLIANCE

Cembrane A/S is the worldwide leading company of producing and developing Silicon Carbide (SiC) membranes.

The team behind Cembrane consists of the pioneer of Silicon Carbide membranes as well as experts with a long experience in Silicon Carbide processing.

Its proprietary new generation ceramic membrane technology, provides several advantages against more commonly used organic and in-organic membranes, like high-flux operation and self-repelling of negatively charged particles including oil.

The company produces and develops SiC micro and ultrafiltration ceramic membrane from its facilities in Denmark.

The company provides OEMs & system integrators with a unique submerged out-to-in flat sheet membrane system to treat challenging drinking and waste waters. The SiC membranes are in successful use with worldwide reference track records since beginning of 2015.

In 2016, Cembrane and CERAFILTEC agreed to join both company's areas of expertise to THE CERAMIC FILTRATION ALLIANCE. The Alliance is dedicated to take on any kind of water filtration projects, while utilizing the best available ceramic flat sheet membrane and highest performing module. The Alliance is determined to deliver the necessary engineering design and treatment process know-how to successfully complete the projects.

In addition, the companies are in collaboration for ongoing and new technology developments to strengthen the leading position of THE CERAMIC FILTRATION ALLIANCE and the technology as such.

CERAFILTEC FZE is an association of consultants and experts in the field of the ceramic flat sheet membrane technology.

Among the team are inventors of several patented module designs and process standards which are in use all over the world.

The team has experience of more than a decade in process and engineering design, installation, start-up and commissioning of various large-scale ceramic flat sheet membrane projects in different applications.

In 2016, the company has completed its development of the next generation high-flux filtration module which is the worldwide first product suitable for challenging purification processes, like seawater, brackish water, industrial waste water and hot water applications.

The company builds the worldwide largest module production facility in Germany, which is scalable to any demand.

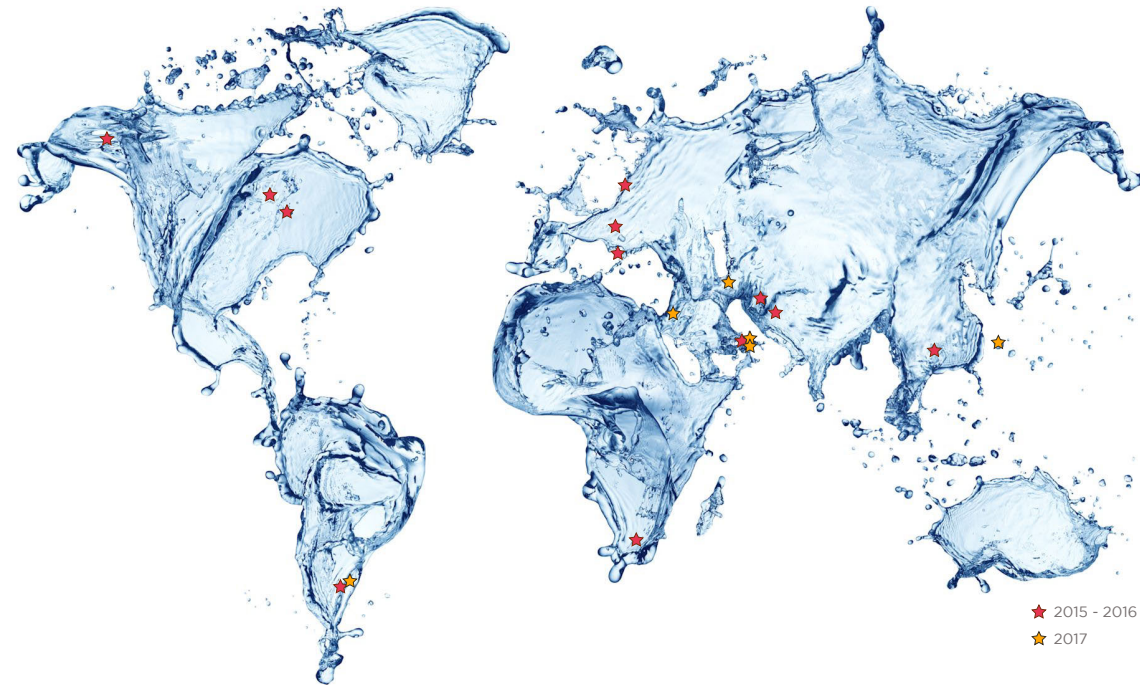
  
Lasse Andreassen, CEO Cembrane A/S

  
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Since 2015 THE ALLIANCE has installed more than 20,000 m<sup>2</sup> filter area



★ 2015 - 2016  
★ 2017

### Projects 2015 - 2016

Region	Capacity [m <sup>3</sup> /d]	Application	Installation
Asia	70	Sand filter backwash	2015
Asia	1,100	Industrial waste water	2015
Europe	36	Industrial MBR	2015
Africa	360	Surface water	2015
Asia	2,600	Groundwater	2016
Europe	5,200	Groundwater	2016
Europe	24	Oily waste water	2016
Middle East	300	Industrial MBR	2016
N. America	3,500	Produced water	2016
N. America	84	Industrial MBR	2016
N. America	41	Sludge de-watering	2016
S. America	3,000	Groundwater	2016

### Projects 2017

Region	Capacity [m <sup>3</sup> /d]	Application	Installation
Middle East	200	Food processing	02/2017
Middle East	12,000	Groundwater	08/2017
Asia	14,400	Brackish water	08/2017
S. America	2,000	Groundwater	10/2017
Asia	1,500	Municipal MBR	11/2017
Middle East	268	Industrial MBR	12/2017