



# **GREEN TECH CLUSTERS: SUSTAINABLE BUILDINGS AND INDUSTRIAL PROCESSES NANO-CATALOGUE**



**MINISTRY OF FOREIGN AFFAIRS  
OF DENMARK**  
*The Trade Council*

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Royal Danish Embassy, Dhaka

## Foreword

Fifty years of Bangladesh witnesses a successful partnership with Denmark in various sectors of growth and development.

As Bangladesh transitions into a middle income country and leans towards a sustainable future, Denmark offers its technologies for a greener future together.

This nano e-catalogue is an effort to make available to interested stakeholders in Bangladesh a part of the greentech cluster of Danish technologies for sustainable buildings and industrial processes.

This nano e-catalogue has been compiled and published by The Trade Council, Embassy of Denmark in Bangladesh.

Dhaka  
October 2021

## Table of Contents

- JS Ventilation
- Hempel Paints Pvt. Ltd.
- Rockwool Group
- Danish Solar Energy Ltd.
- Fischer Lighting
- Danfoss
- Nilfisk India Pvt. Ltd.
- FLSmidth Private Limited
- Grundfos
- Aminodan Group
- Roserve Enviro Pvt Ltd
- ecoBETA
- AquaGreen
- Novozymes South Asia Pvt. Ltd.
- Aquaporin A/S
- Krüger - Veolia Water Technology

**Organisation:** JS Ventilation

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**AJS Ventilation:** S. M. Gofranul Hoque, Managing Director

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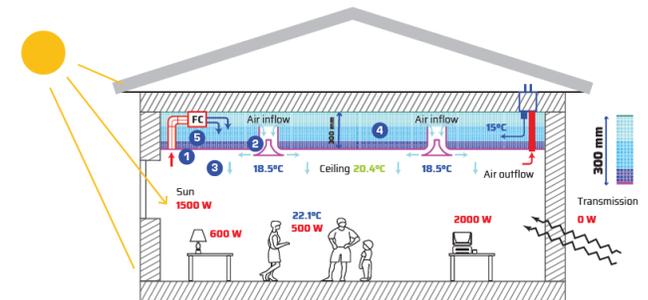
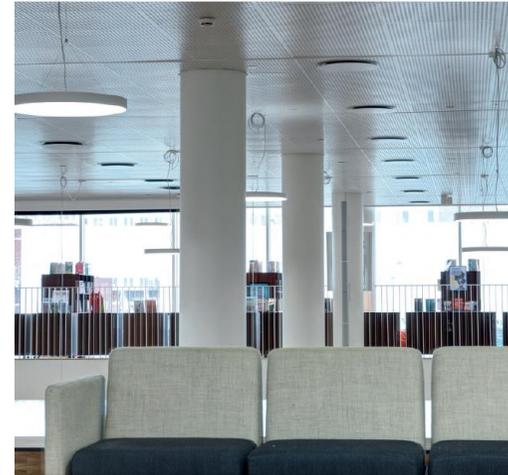
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AJS Ventilation is a joint venture between the Danish JS Ventilation and the Bangladeshi ABG Interlinks, established in April 2018. AJS Ventilation brings Danish technology in Bangladesh with a fully trained workforce. ABG Interlinks Ltd. and JS Ventilation's partnership, is offering a fresh and very focused approach to the market of ventilation equipment. It's a partnership accompanied by Danish know how and Bengali competencies.

With the use of natural laws and smart design, AJS Ventilation has invented a combined cooled ceiling and ventilation solution, *Cool Ceiling*, which can reduce the building height or provide space for more floors when constructing multi-story buildings. This means: no ducts, design freedom, shorter construction time, no maintenance, and it contributes to lower energy consumption.

## Cool ceiling Ventilation principles

✓ Sustainability   ✓ Innovative and simple   ✓ Aesthetics and common sense



Ceiling Radiative cooling: 72 W/m<sup>2</sup>  
Air cooling: 40 W/m<sup>2</sup>  
Floor area: 114 m<sup>2</sup>  
Ceiling height: 2.7 m

- 1 Metal ceiling
- 2 Air inflow unit
- 3 Cool air
- 4 Hollow space/  
Pressure chamber
- 5 FanCoil = FC (Optional)



**Organisation:** Hempel Paints Pvt. Ltd.

**Website:** [www.hempel.com/en-sea](http://www.hempel.com/en-sea)

**Address:** Hempel Paints India Pvt Ltd., Office number 2: 4<sup>th</sup> Floor, B Wing, Art Guild House, Kurla, Mumbai 400 070, India

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Hempel develops and manufactures coating solutions for the protective, decorative, marine, container, industrial and yacht segments. Across the globe, Hempel products protect, beautify and improve the performance of customers' most valuable assets.

At Hempel, the purpose is to shape a brighter future with sustainable coating solutions. With the firm belief that success will follow if sustainability is at the core, Hempel deems that not only is it the right thing to do, it will strengthen Hempel's competitive position, make them more resilient and reduce risk.

Hempel was founded in Copenhagen, Denmark in 1915. It is proudly owned by the Hempel Foundation, which ensures a solid economic base for the Hempel Group and supports cultural, social, humanitarian and scientific purposes around the world.





**Organisation:** Rockwool Group

**Website:** [www.rockwool.com/in](http://www.rockwool.com/in)

**Address:** Wing B-2, 2nd Floor, Unit No. 206, Boomerang,  
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The Rockwool Group-a Danish multinational is more than 80 years old in the insulation business and operates 47 manufacturing facilities and have a global network of sales offices, distributors and partners across the world. Ever since it was founded, ROCKWOOL has had one single-minded purpose: Releasing Natural Power of Stone to enrich modern living. All Rockwool Stone Wool insulation products possess outstanding fire, acoustic and thermal insulation properties as well as a lifelong durability, making it the sustainable and cost-effective choice. Roxul-Rockwool Technical Insulation India Private Ltd., is a fully owned subsidiary of Rockwool International and has state of the art manufacturing facility in Gujarat-India with an annual capacity of 30,000 metric tons of high quality stone wool insulation for building and industrial requirement.



Safe 'n' Silent Pro-min



ProRox Slab



Lamrock 3d box with product-min



ProRox Wired Mats



Cool and Comfort Blankets - min

**Organisation:** Danish Solar Energy Ltd.

**Website:** [www.dansksolenergi.dk](http://www.dansksolenergi.dk)

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Danish Solar Energy Ltd offers complete photovoltaic solutions either linked to the grid or as stand-alone systems. All solutions are equipped with our high quality modules produced in Denmark. Danish Solar Energy have more than 25 years' experience of all types of photovoltaic power systems. Danish Solar Energy Ltd. supports the ten universal principles of the UN Global Compact in the areas of human rights, labour, environment and anti-corruption.



Reference Project at Svendborg, Denmark

**Organisation:** Fischer Lighting

**Website:** [www.fischer-lighting.com](http://www.fischer-lighting.com)

**Address:** : Skjulhøj Allé 46, 2720 Vanløse

**Point of Contact:** Lars Elmvang

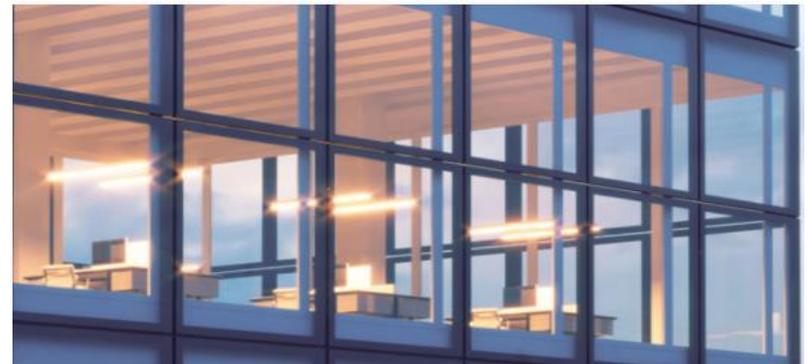
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Fischer Lighting is at the forefront of the latest energy-efficient LED solutions. They are a Danish company that has developed a revolutionary patented LED technology, which is a completely new way of thinking about lighting. Instead of throwing away existing light fixtures because they are too expensive to operate or too bad, they upgrade your old fixtures with their technology that converts the fixture into LED.

You do not have to replace the entire light fixture, you save on your future electricity bill and at the same time you take good care of the environment.



## [Product Catalogue](#)



ENGINEERING  
TOMORROW

**Organisation:** Danfoss

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With more than 85 years' of experience, Danfoss delivers an extensive range of products and solutions catering to Climate Solutions, Drives and Power Solutions.

Danfoss Climate Solutions provide the integrated energy-efficient heating and cooling solutions. As a front-runner in the HVAC&R industry, Danfoss Cooling develops precise and energy efficient cooling solutions, while Danfoss Heating delivers highly efficient and smart end-to-end heating solutions for single buildings or entire cities. Pioneers in variable speed control technology, Danfoss offers a wide range of Variable Frequency Drives (VFD) catering to diverse applications across various industries.

As global leaders in hydraulic solutions and electronic motors, Danfoss Power Solutions empowers a wide range of construction, agriculture, material handling and off-road machinery.



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**Organisation:** Nilfisk India Pvt. Ltd.

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Nilfisk is an established leader in cleaning technology; with products designed by experts in the industry, to provide solutions ensuring a high hygienic standard across a variety of applications. Committed to a cleaner world, and driven by a passion for innovation, knowledge, sustainability, and transformative technologies, Nilfisk is set to be a leader in the professional cleaning industry and prepared to excel in the new era of intelligent cleaning. As a trusted partner when it comes to equipment and services anywhere in the world, Nilfisk makes it their business to help their customers maximize their performance.

Nilfisk's specialty product line includes - commercial, industrial floor cleaning equipment, maintenance equipment, cleaning equipment, floorcare, autonomous cleaning solutions, consumer goods, and high pressure washers.



Autonomous Floor Cleaning



Oil and Shavings VAC



Combination Machines



Food Pharma and OEM



Scrubber



Sweeper



Single Phase Wet & Dry Vacuum Cleaner



**Organisation:** FLSmidth Private Limited

**Website:** [www.flsmidth.com/MissionZero](http://www.flsmidth.com/MissionZero)

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*Sustainable productivity through innovation*

FLSmidth provides sustainable productivity to the global mining and cement industries. We deliver market-leading engineering, equipment and service solutions that enable our customers to improve performance, drive down costs and reduce environmental impact. Our operations span the globe and we are close to 10,700 employees, present in more than 60 countries. In 2020, FLSmidth generated revenue of DKK 16.4 billion. MissionZero is our sustainability ambition towards zero emissions in mining and cement by 2030.



Thickeners



Cross-Bar Cooler



FerroCer-Impact-Wear-Panels



Mill liner



**Organisation:** Grundfos

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GRUNDFOS is a global water technology company committed to pioneering solutions to the world's water and climate challenges and improving the quality of life for people. We are an organisation with local mindset in understanding customer needs and offering our solutions. Sustainability is in everything we do tirelessly to improve water and energy efficiency and believe in making a difference. Grundfos offers application specific solution, encompassing efficiency, reliability and customised offerings for every application in an industry.



CRE Pump



Hydro Multi- E Pumps

THE  
**AMINODAN**  
GROUP

**Organisation:** Aminodan Group

**Website:** [www.aminodangroup.dk](http://www.aminodangroup.dk)

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Aminodan is a company specialized in wastewater treatment for fulfilling the requirements for releasing the water into sewage system or into a natural emissary. For this, we are using Aminodan DAC and Aminodan AMB technology.

Aminodan has delivered complete treatments systems until now up to a capacity of 1.400 m<sup>3</sup>/h (33.600 m<sup>3</sup>/day) and has an international presence and also the first delivery has just now been made in Bangladesh.

Aminodan systems are custom made and designed in Denmark.

Aminodan has more than 55 years of experience in wastewater treatment.



# ROSERVE

**Organisation:** Roserve Enviro Pvt Ltd

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Roserve Enviro Pvt Ltd is an Indo-Danish Joint Venture in the field of industrial wastewater management & recycling offering customized “Pay per Use” solutions. The JV partners are Danish Climate Investment Fund(DCIF) through Investment Fund for Developing Countries(IFU) and Concord Enviro Pvt. Ltd. We have been successfully offering our innovative Fintech solutions for industries looking to achieve their wastewater discharge norms by providing a unique Service/Opex/BOT/BOO/BOOT model for their wastewater/sewage treatment & recycling needs. With our Innovative technologies such as PT RO system and WHE- Waste Heat Evaporation & our specialized expertise in Sewage, Desalination & Wastewater Treatment & Recycling we’re leaders across major industrial sectors viz. Textiles ,Pharmaceuticals, Oil & Gas, Petrochemicals, Chemicals, Paper, Food & Beverage & Tannery.



# ecoBETA®

Award-Winning Water-Savers

**Organisation:** ecoBETA

**Website:** [www.ecobeta.com](http://www.ecobeta.com)

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Marketing Executive

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ecoBETA addresses water shortages with affordable high quality products. Instead of vast investments into the infrastructure, ecoBETA offers economical products for the final part of the water supply chain – the end customer. ecoBETA's signature product is a dual-flush toilet valve with ONLY 1 button. The ratio of small flushes at public places and businesses goes up to 95%. Hence, having conventional dual-flush toilet valves with dual-button causes only confusion and misuse of the big flush. By applying ecoBETA, we guarantee a minimum of 25% water conservation after installation overall and up to 50 % of water conservation per flush.



Europa



**Organisation:** AquaGreen

**Website:** [www.aquagreen.dk](http://www.aquagreen.dk)

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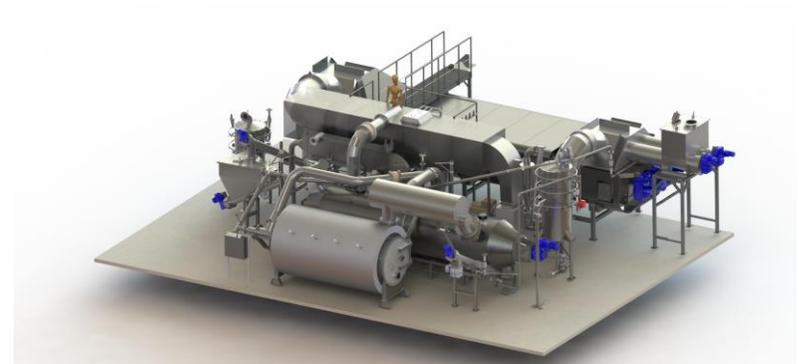
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AquaGreen is a cleantech company that develops new and innovative solutions for turning biomass like wastewater sludge into resources. Our groundbreaking technology consists of an integrated stream drying and pyrolysis unit, which has been developed and patented in close collaboration with the Technical University of Denmark. The outcome is a highly advanced and scalable solution that allows for turning biomass like wastewater sludge, manure and horticultural waste into biochar and renewable energy while eliminating organic pollutants. The benefits are numerous and include eliminate greenhouse gas emissions and capture CO<sub>2</sub>, reduce pollution and health risks, recirculate nutrients, recover energy and more.



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**Organisation:** Novozymes South Asia Pvt. Ltd.

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Novozymes is the world leader in biological solutions, together with customers, partners and the global community, we improve industrial performance while preserving the planet's resources and helping build better lives.

Faster, safer, more sustainable for textile production.

*"Consumers and brands are increasingly demanding high-quality, sustainable fabrics. With our enzymatic solutions, your mill or laundry can help meet this demand of clothing while saving energy, time and money in production"*





**Organisation:** Aquaporin A/S

**Website:** [www.aquaporin.com](http://www.aquaporin.com)

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**Point of Contact:** Søren Robenhagen

Sales Director, Industrial Water

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Aquaporin is a global water solution company dedicated to natural water treatment. As the only company in the world, we embed aquaporins – nature’s own water filters – into water purification membranes. The aquaporins are the core in our technology, Aquaporin Inside®, which is based on Nobel Prize-winning research and used to clean water in industries, in our homes and even by NASA in space. At Aquaporin, we work with partners around the globe to develop sustainable methods of dealing with textile wastewater streams – giving them a tangible way to improve their sustainability performance and meet today’s conscious consumers, while driving down costs. Our Aquaporin Inside® Forward Osmosis membranes enable efficient extraction of water, while excluding challenging contaminants and reducing effluent volume. In the textile industry, our solution can reduce wastewater volume up to 50 times and increase water recovery by up to 98%.



Hollow fiber forward osmosis modules



Drinking water membranes



**Organisation:** Krüger - Veolia Water Technology

**Website:** [www.aquaporin.com](http://www.aquaporin.com)

**Address:**

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**Malaysia Office:** Veolia Water Technologies Sdn Bhd, Mercu 3, Level 20, #3 Jalan Bangsar, 59200 Kuala Lumpur, Malaysia.

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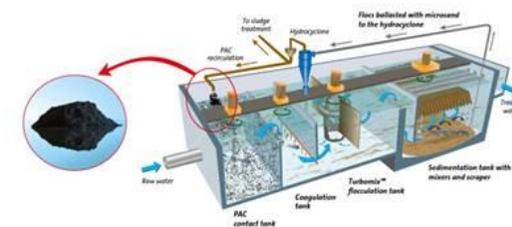
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Krüger - Veolia Water Technology is an engineering company delivering solutions for water and wastewater treatment in all aspects, sizes and capacities. In Bangladesh, Krüger & Veolia Water Technologies rely on a network of accredited distributors and partners to distribute and market its technologies to municipal and industrial customers: Cosmos group for the Power market, Flowater solutions for the Food & Beverage market, and Spectra International for the Municipal and Hospitality market.



Ehaled



Actiflo Carb



Sirion

