



# DENMARK - MALAYSIA ENVIRONMENTAL COOPERATION

Presentation of Companies

Meet us in Hall 5 booth A125-A131 and A132-A138  
14-17 October 2010, Kuala Lumpur Convention Centre

**EMBASSY OF DENMARK**  
THE TRADE COUNCIL • EKSPORTRÅDET

CO-FINANCED BY  
MINISTRY OF FOREIGN AFFAIRS OF DENMARK  
**DANIDA** | INTERNATIONAL  
DEVELOPMENT COOPERATION



# DANIDA Pavilion

Hall 5, booth A125-A131 and A132-A138



INTERNATIONAL GREENTECH & ECO PRODUCTS  
EXHIBITION & CONFERENCE MALAYSIA

2010

October 14-17, 2010 • KL Convention Centre, Malaysia



# DANIDA in Malaysia

Since 1994, Malaysia and Denmark have had a strong bilateral cooperation in carrying out a long-lasting development program with the view to achieve a sustainable environment in Malaysia.

In doing so, DANIDA has been promoting a sustainable environmental focus in line with policies and strategies outlined in the Malaysian Development Plans.

DANIDA cooperated not only with the Malaysian Ministry of Science, Technology and Environment but also with NGOs and the private sector. Through capacity building the aim was to establish a framework of stable environmental management.

Due to a continued positive economic development in Malaysia, it was however decided in 2001 to gradually phase out the assistance provided by DANIDA.

The future of the collaboration between Denmark and Malaysia in the environmental field now rests with actors of the commercial world.

Today our joint Danish-Malaysian participation in IGEM2010 demonstrates that the former DANIDA activities helped provide a base for sound commercial activities suited to face current and future environmental challenges in Malaysia.



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## Royal Danish Embassy

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H. E.  
**Mr. Svend Wæver**  
Ambassador

# The Danish-Malaysian Partnership

The Partnership Facility Programme (PFP) was set up as part of the DANIDA Environmental Cooperation Programme.

The overall objective of the Partnership Facility Programme in Malaysia was to improve the environment and to ensure a sustainable environmental development in Malaysia through transfer of know-how and technology. Concurrently, the PFP programme offered Danish companies opportunities in Malaysia to utilise and share their expertise.

At the IGEM2010 exhibition the DANIDA Pavilion reflects four components of the PFP programme namely:

- Urban Environment Management
- Natural Environment Management
- Energy Efficiency & Green Buildings
- CDM

This is the background from which we welcome the 10 partner companies in the DANIDA Pavilion:

Akvatek Sdn Bhd (Joint venture between BioAqua & Hooker Chemical)

DanAqua A/S

DGE Group A/S & Ranhill Utilities Sdn Bhd

Q2 Engineering

EnviDan A/S & Darco Water Systems Sdn Bhd

OnWater Sdn Bhd (Niras A/S & Ocned Sdn Bhd)

Veksebo Miljørådgivning Aps & Eco-Ideal Systems

Geokon A/S & Eco-Ideal Systems

Babcock & Wilcox Vølund A/S (represented by Halla Energy & Environment)

BioKube Solutions Sdn Bhd (BioKube A/S & Servicemaster)

The companies present solutions within the areas of Waste Water Treatment, Biodiversity, Landfill Gas and Biogas Extraction, Waste to Energy, Solid Waste Management and Planning and Mapping.



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**Ms. Helle Sejersen  
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Trade Counsellor



# Akva-Tek Sdn Bhd

*Partnership between Bio-Aqua A/S and Hooker Chemical Sdn Bhd*

# AKVA-TEK

## Polishing Plant for BOD reduction on Palm Oil Mill Effluents & Wastewater

Akva-tek Sdn Bhd is a Malaysian, private joint-venture company between Hooker Chemical Sdn Bhd (HCSB), Malaysia and BIO-AQUA as, Denmark.

HCSB is primarily involved in industrial wastewater treatment offering complete turnkey wastewater treatment plants since 1989 and is a wholly owned subsidiary of Brite-Tech Bhd listed on ACE market of Bursa Malaysia. BIO-AQUA is involved in ozone technology for years especially in the aquaculture and agriculture, in particular animal manure and waste water in Denmark.

DANIDA (Danish Environmental Development Programme) has funded the JV and set-up a demo polishing plant in Jugra palm oil mill, Banting, Malaysia.

The combination of Dissolved Air Floatation (DAF), Ozone, and 300m<sup>2</sup>/m<sup>3</sup> Submerged Fixed Film PE media for a biological treatment process as a POME polishing plant has been tested in operation for about 9 months using the pilot R&D polishing plant.

Results have shown to be able to treat the POME from the Algae or aerobic pond discharge water to achieve the 20ppm BOD<sub>3</sub> limit.

Subsequently, Akvatek Sdn Bhd has submitted a Patent application (Patent Application number: PI20094172)



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### Akva-Tek Sdn Bhd

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# DanAqua Sdn Bhd



DANAQUA Sdn Bhd is based in Kuala Lumpur. We have expertise in Danish Water Engineering Front-Edge Technology.

Our people focus on improving your system and ensure you:

- Fast pay-back
- Reduced environmental impact
- Increased reliability & sustainability

Our Services include:

- International Capacity Building
- NRW Reduction
- Energy Optimisation
- Geophysics & Hydrogeology
- GIS & Database Management
- SCADA Solutions
- Water & Wastewater Treatment Optimisation

DANAQUA facilitates Energy & NRW Performance Contracting projects, financed through Eksport Kredit Fonden in Denmark (Projects 100% financed through energy/water cost reduction).

Our Partners are:

VCSDenmark-DK, DanWater-DK, SmartWater-M, Taliworks Corporation Berhad-M



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# Darco-EnviDan Sdn Bhd

*Partnership between EnviDan A/S and Darco Water Systems Sdn Bhd*



## EnviDan A/S

Founded in 1995, EnviDan is a limited liability company working as an engineering consultant within the field of municipals and industrial wastewater. The company is owned by EnviDan Holding ApS. EnviDan Holding ApS presently has over 100 employees, who are working at 4 locations in Denmark.

EnviDan has a very wide customer data base throughout Denmark including more than half of the Danish municipalities. As there is little room for expansion in Denmark, the strategy of the company has been to expand internationally why they in 2007 formed a joint venture with Darco Water Systems Sdn Bhd.

## Darco Water Systems Sdn Bhd

Founded in 1997, Darco Water Technologies Ltd. is a private limited company owned and is listed at the Singapore Stock Exchange.

Darco has over 500 employees in the entire group, and is working as an integrated water purification and wastewater treatment system integrator to provide engineering based solutions for Water and Wastewater.

Darco-EnviDan Sdn Bhd's focus is to transfer Danish know-how on wastewater treatment technology to the Asian market. They are able provide custom made, cost effective turn-key systems of high quality. After system implementation Darco-EnviDan can ensure that they are operated and maintained well, since they also offer up to 10 years service contracts for the customers.



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## Darco-EnviDan Sdn Bhd

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## Q2 Engineering

Q2 Engineering has more than 20 years of technology know-how and experience in the field of landfill gas and biogas extraction and utilisation, as well as power generation in over 15 countries.

A brainchild of its founders, Q2 is venturing into carbon emission reduction projects utilising opportunities under the Kyoto Protocol.

### Fields of Specialisation

The engineers at Q2 have performed many test pumping, landfill gas production forecasting and feasibility calculations worldwide. Q2 has the practical experience of implementing complete landfill gas plants, including container-based cogeneration plants. Besides planning, designing, constructing and commissioning the first landfill gas based CDM Project in Johor Bahru, Q2 is engaged in the operation, optimisation and maintenance of the landfill gas plant.

Q2 has commissioned two landfill gas projects in Malaysia. One of the landfill gas projects in Malaysia was implemented by SGE, a joint venture company between Q2 Engineering and SWM Environment. In addition to that, Q2 is also venturing into China. In Indonesia, Q2 is in the midst of conducting feasibility studies on landfill gas extraction and utilisation and due diligence exercises in several landfills across Indonesia.

### Q2 is able to offer the following services:

Consultancy, Feasibility Studies, Test of Methane Gas Production, Design and Supply as Turnkey Contractor, Investment in Carbon Emission Reduction Projects, Engineering Assistance and Technical Support for Gas Optimisation, Operation of Landfill Gas Facilities and Biogas Plants, Brokerage of Certified Emission Reductions/Carbon Credits.



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### Q2 Engineering

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# ONWATER Sdn Bhd

*Partnership between Ocned Sdn Bhd and Niras A/S*



## ONWATER PROVIDES YOU WITH THE BEST SERVICES

ONWATER is a consulting company based on the best of experiences from Europe and Malaysia.

The company is owned by OCNEDED WATER TECHNOLOGY Sdn. Bhd. and NIRAS A/S of Denmark.

Together we have more than 200 staff with extensive experience in groundwater, water resources, water treatment and water distribution.

ONWATER is working with identifying groundwater resources, we do pumping test, design the wells and the treatment plants as well as the pipelines.

We also do non-revenue water projects using the most modern digital modelling tools.

We do EIA, environmental studies and remediation projects using the newest clean up technology from Europe and The States.

ONWATER will ensure you a safe and sustainable project. We combine knowledge from the water sector with knowledge from the environmental sector and ensure that your investment will be safe both economically and environmentally.



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### ONWATER Sdn Bhd

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**Ranhill**

**DGE**Group

## Ranhill Utilities Sdn Bhd

*Partnership between Ranhill Utilities Sdn Bhd and DGE Group A/S*

Ranhill Utilities Sdn Bhd is one of Malaysia's leading water engineering, construction and asset ownership companies. We are part of the Ranhill Group with involvement in power, infrastructure and petroleum and chemical.

Our expertise encompasses the entire spectrum of the industry from engineering, procurement and construction of water infrastructure to ownership, operation and management of water utilities.

Currently supplying drinking water to more than 3 million people, we also offer expertise in water and wastewater treatment technologies and services in operation and management of water supply system.

Our operations span the breadth of the Asian Continent to Middle East including Malaysia, China, Thailand, Vietnam, Indonesia, Saudi Arabia and India.

Our subsidiaries are:

- **SAJ Holdings Sdn Bhd** – water operator for state of Johor, supplying water to its 3.2 million residents
- **Ranhill Water Technologies Sdn Bhd** – offering unparalleled process engineering solutions with more than 100 water and wastewater treatment plants constructed and installed in the region
- **Ranhill Water Services Sdn Bhd** – offering specialist operational support, including non-revenue water reduction, asset management support, water quality management.



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### **Ranhill Utilities Sdn Bhd**

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# BioKube Solutions Sdn Bhd

*Partnership between BioKube A/S and Servicemaster*



BioKube Solutions Sdn Bhd has acquired an **innovative biological green domestic sewage water recycling technology** from Denmark. It is simple, nature-inspired biological processes yet highly effective treatment method for domestic waste water. Using biotechnology as core process, in combination with patented submerged aerated bio-membrane media, a **modular and compact** highly effective yet efficient system can be manufactured.

Highly efficient cleaning process of black and grey water means treated water from BioKube systems can be reused and recycled for secondary usage like flushing of toilets, landscaping, general building cleaning as well as other non-critical usage of water without additional purification, making it the ideal alternative to rainwater harvesting system.

BioKube Solution has secured the manufacturing rights and the exclusive distributorship for Malaysia. A complete range of waste water treatment system from single house up to 10,000m<sup>3</sup> is available, which can be easily upgraded. BioKube systems are certified to CEN standard 12566-3 and local effluent discharge requirements.

BioKube Solutions has installed one pilot project using this patented technology in Malaysia with UiTM as our technical collaborator. The Jupiter system installed at Kolej Mawar existing STP, mainly to illustrate proof of concept, performance verification under tropical climate condition and acts as our demo site.

BioKube Solution natural, biological green technology provides an economically affordable, technically effective, natural and sustainable means of improving the water quality environment for the ASEAN region.

## Product offerings



Venus – single house



Bioreactor: 25-2000m<sup>3</sup>/d



Jupiter: 10-75m<sup>3</sup>/d



## BioKube Malaysia Sdn Bhd

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# Veksebo Miljørådgivning ApS

*Partnership between Veksebo Miljørådgivning Aps and Eco-Ideal Systems*

Veksebo Environmental Consultancy; specializing in all aspects of waste management:

## **Mapping and Quality assurance**

We do mapping of waste data and waste streams, giving a year-by-year overview on local, regional, or national level. We ensure standardising, error identification, and correction of waste data.

## **Statistics, prognosis and planning**

Based on mapping data over a period, Veksebo develops qualified waste statistics, typically used as grounding for prognosis.

Advanced calculus of waste historic and extrapolations, based on population and wealth growth and numerous other parameters, using Veksebos own advanced tools, assures reliable prognosis to use for decision making.

## **Fee and levy calculation**

Veksebo has made a framework for calculation of fees and levys in Denmark, giving authorities the right tools to make these calculations.

## **Safety advising for transporting of hazardous waste**

Veksebo employs authorized safety advisers for transporting hazardous waste (EU-certified), and has an in depth knowledge of elaborating operation instructions for handling hazardous waste

## **Education and lecturers**

Tailor made courses, seminars and lectures covering waste composition, energy, hazardous waste, waste treatment, waste to energy, LCA, etc.

## **IT solutions:**

*Web-based Waste Management System*

*Recycling Centre Systems*

*Prognosis System*

*Miscellaneous ad hoc development of waste related IT-systems*



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## **Veksebo Miljørådgivning ApS**

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# Geokon A/S

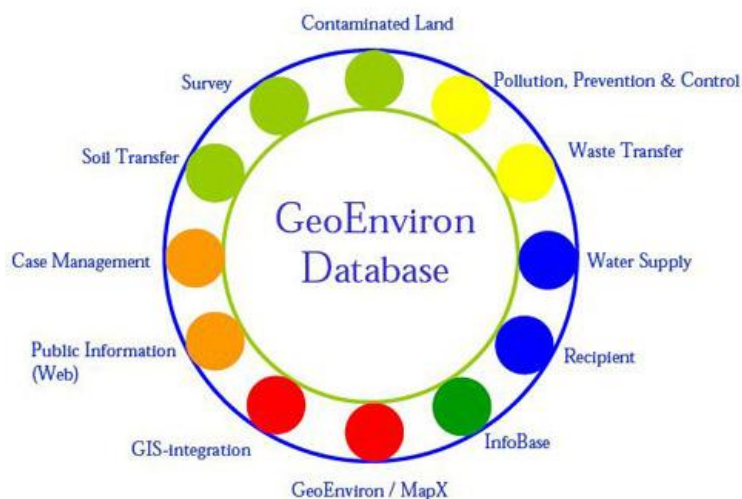
*Partnership between Geokon A/S and Eco-Ideal Systems*



GeoEnviron is a comprehensive, integrated database management systems designed for various environmental applications.

The major benefits you will realize from implementing GeoEnviron System include:

- **Enhanced strategic planning and workflow analysis** - designed by environmental specialists the system incorporates prioritization and decision support systems. In addition, GIS facilities are integrated into the core of the system.
- **Reliable data storage and management** - the system employs high performance SQL databases for reliable and efficient data and document management as well as networking.
- **Enhanced 'electronic service delivery'** - the system is 'web-enabled' allowing for the sharing of data via an intranet or the internet.
- **Quality support and continuous development** - a total quality management approach is taken towards the delivery of support services. The system is subject to a programme of continuous improvement driven by users' requirements.



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Geokon A/S

# Babcock & Wilcox Vølund A/S

Represented by Halla Energy & Environment



## Core business

- Environmental Plants such as Waste-to-Energy plants, water treatment plants, air pollution control systems, etc.
- Energy plants including power plants, BOPs (Balance of Power Plants), renewable energy plants.
- Wind tower, pressure/non-pressure vessel, steel structure
- Industrial Plants such as cement plant, material handling, loading & unloading equipment, ash handling systems, etc.

## Technical Collaboration with BWV- Babcock & Wilcox Volund

- Babcock & Wilcox Volund (BWV) in Denmark is one of the world's leading suppliers of equipment and technologies designed to convert household wastes and bio-fuels into thermal energy
- With 80 years of experience, BWV has offered solutions for Waste-to-Energy systems & Biomass Energy systems all over the world.
- Putting trash in a landfill will only leave poisonous heavy metals and gas. On the other hand, by converting refuse to energy, you can recover 2/3 of it as CO<sub>2</sub>-neutral fuel.
- Halla Energy & Environment in technical tie-up with BWV since 1991 has made remarkable achievements in the field of waste treatment plants.



Waste to Energy plant in Mapo (Seoul, Korea)



Technical Partner, B&W Volund(Denmark)

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