

## **Dutch Water Technology: smart solutions for resource efficiency and sustainable water footprint in Thailand**

Date: Wednesday 2 December 2020  
Time: 14:30 -16:00 hrs. (Thailand time)

The Netherlands Embassy in Thailand is organize a water technology webinar in cooperation with the Water and Environmental Institute (WEIS) of the Federation of Thai Industries (FTI) and the Netherlands Water Partnership (NWP). Water professionals from Thailand and the Netherlands will have an opportunity to share their industrial water challenges and jointly explore possible alternative/innovative solutions. The WEIS had indicated interest in these topics; industrial water and wastewater treatment, water reuse and recycling and desalination.

### *Agenda:*

- 14:30 – 14:33 *Welcoming address by Moderator, **Dr. Bancha Kwanyuen***
- 14:33 – 14:40 *Introduction about the WEIS and overview of water technology opportunity in Thailand by **Mr. Chuchat Saitin**, WEIS Director*
- 14:40 – 14:45 *Introduction about Netherlands Water Partnership (NWP) by **Mrs. Bianca Nijhof**, NWP Managing Director*
- 14:45 – 14:55 *Presentation by **Nijhuis Industries** on Water and Wastewater treatment for industry, by Mr. Nik Chia*
- 14:55 – 15:05 *Presentation by **RHDHV** on Water and Wastewater treatment for industry*
- 15:10 – 15:20 *Presentation by **Rodelta B.V.** on Water Reuse Recycle by Mr. Stefan Apel*
- 15:20 – 15:30 *Presentation by **Enviro-pure Foundation** on Water Reuse Recycle, by Mr. Dick van Dijk*
- 15:30 – 15:40 *Presentation by **REDstack B.V.** on Desalination by Mr. Pepijn Fluks*
- 15:40 – 15:50 *Presentation by **Elemental Water Makers** on Desalination by Mr. Sid Vollebregt*
- 15:50 – 16:00 *Q&A and conclusion by Moderator*

### **DUTCH SPEAKERS:**

**\* NWP (Netherlands Water Partnership)**, by Mrs. Bianca Nijhof

The Netherlands Water Partnership is a network of Dutch organizations in the water sector with international ambitions. NWP's members include companies, government agencies, knowledge institutions and NGOs with one common goal - to join forces for sustainable water solutions worldwide. NWP enables the Dutch water sector to have an greater impact internationally by organizing trade missions, matchmaking and promote the Dutch water sector globally.

***Nijhuis Industries*** on Water and Wastewater treatment for industry, by Mr. Nik Chia

*About:* Nijhuis Industries delivers solid and adaptive solutions for sustainable water use, energy and resource recovery. The company has a broad experience and application know-how within a wide range of industries, designing the most appropriate solutions to reduce, reuse and recover (waste)water.

***RHDHV***, on Water and Wastewater treatment for industry, by name TBC

*About:* RHDHV will present its "Nereda" technology which is the wastewater treatment technology that purifies water using the unique features of aerobic granular biomass. The award-winning technology was invented by the Delft University of Technology and developed in a unique public-

private partnership between the University, the Dutch Foundation for Applied Water Research (STOWA), the Dutch Water Authorities and Royal HaskoningDHV.

**Rodelta B.V.** on Water Reuse Recycle, by Mr. Stefan Apel

*About:* Rodelta Pumps International is a Dutch pump manufacturing company that is technology driven and market-oriented, established since 1946. The company offers products for flood control, irrigation, drinking water, waste water, pulp & paper, power, chemical, oil & gas and general industries.

**Enviro-pure Foundation** on Water Reuse Recycle, by Mr. Dick van Dijk

*About:* small scale water treatment for ASEAN to provide safe, clean water to WHO and National Standards from available fresh water sources such as rivers, lakes, creeks, ground water with capacities up to 200 m<sup>3</sup>/h. Very competitive, made in ASEAN, low maintenance and operational costs, superior quality drinking water: "Safe water from river to tap".

**REDstack B.V.** on Desalination, by Mr. Pepijn Fluks

*About:* REDstack's goal is to develop and commercialize the reverse electro dialysis (RED) technology. RED is a form of sustainable energy generation, where the fuel is fresh and salt water. A fraction of the fresh water is combined with sea water in a membrane pile, or RED stack, to which the company also owes its name: REDstack. Salt and fresh water are mixed in a controlled manner by which electricity can be generated. The resulting brackish water mixture is then returned to the sea and the generated electricity is distributed through the grid. This technology is calling a Blue Energy: a completely sustainable source of electricity.

**Elemental Water Makers** on Desalination, by Mr. Sid Vollebregt

Reverse osmosis has been used for decades to provide drinking water from seawater. The company provides solutions with low energy consumption, even at small-scale, powered by renewable energy or using the existing energy sources. Through constant operation and automated fresh flushes, the membrane lifetime is maximized. All components in contact with salt water have been carefully selected to resist corrosive environments and have a minimum of maintenance.



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