

Year: 2017

SHOW CASE TITLE : Tun Razak Exchange (KL – Malaysia)**COMPANY NAME : Veolia****Category :***(delete wrong ones)***Circular Economy**
Water Reuse**Country of the Best Practice:**
Malaysia**Company name: Veolia****Industry:** International Finance
and Trading Hub/ Water Reuse**Turnover (2016):****Worldwide: Euros 25000 million**
Asia Pacific:**Workforce (2016):****Worldwide: 174000**
Asia Pacific: 1200 (Veolia Water Technologies)
Singapore: 140 (VWT)**Headquarter (country): France****CompanyWebsite :****<http://www.veoliawatertech.com/asia/>****Company logo:****BACKGROUND**

Please briefly describe your line of Business. Who Initiated this Project? What drove the company buy into this initiative?

Veolia Water Technologies - specializes in technological solutions and design and build projects for water and wastewater treatment, serving industrial and municipal clients - has signed a 20-year partnership with Tun Razak Exchange (TRX) in Q4 2014.

As Malaysia's new international finance and trading hub, the TRX Project will be designed according to the highest environmental standards, and a key focus throughout the development will be water reuse.

The project has been acknowledged by Leadership in Energy and Environmental Design ("LEED") Gold Certification.

OBJECTIVE(S)

Which Best Practice objective(s) does the company want to achieve with Your Project?

TRX will have an on-site water recycling center – the first of its kind in the region. The global objective is to turn wastewater treatment into a renewable resource supply and create value through responsible and sustainable solutions.

Veolia aims to recover at least 80% of the expected 3.8 million cubic meters (m3) of sewage generated every year, for reuse purposes within the new district, consequently reducing site-wide fresh water demand by more than 50%.

To reduce the water consumption:

- All non-potable water to be supplied with Recycled Water, produced on-site via Wastewater treatment,
- All buildings will utilise water-efficient fittings and fixtures to further reduce demand.

These measures will result in a reduction of over 50% in total Potable Water demand compared to a typical development.

The water recycling plant is going to be three times smaller than conventional water treatment plant, and designed to blend well with the district façade.

Recycled water produced by the plant will be channelled back to be used for purposes other than drinking and cooking, mainly for toilet flushing, cleaning and landscaping upkeep.

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APPROACH

Which were the critical phases of Your Project implementation? Were other department(s) or function(s) involved in your project?

Key departments involved: Operations; Project Management, Engineering and Finance.

Veolia will received financial income from :

- The recycled water that will be sold to individual customers (20+ end users). The recycled water price is fixed at 25% discount to potable water tariff for 20 years.
- Waste Water treatment (A 30+ strong Veolia team will work on site)

The main challenges faced were:

- The space constraint (the site is localized at the heart of KL and the treatment plant facility has to be 'space optimized')
- Balance the water supply & demand to the individual customers as there is no Recycled Water Storage on the plant; thanks to the Smart Network, the water supply will be monitored in real time (smart water network) to ensure uninterrupted supply.

RESULTS

Was your project successful? Which tangible results could be highlighted? Also please state any challenges and obstacles encountered if any.

As it is an ongoing project, we will have more inputs to share in Q2 2018 after completion.

KEY SUCCESS FACTORS

CONTRIBUTION TO CORPORATE PERFORMANCE

Describe the concrete measurable benefits and outcome of Your Projects (if possible give numerical results)

ENVIRONMENTAL, SOCIAL AND GOVERNANCE BENEFITS

What are the social, environmental and/or governance benefit(s) and impact(s) resulting from your Best practice?

TRX Project's focus on water reuse separates it from all other developments across the nation. Globally, Malaysia is one of the wettest countries with the highest average annual rainfall of around 3,000mm. Even then, the once water-abundant Malaysia is now rapidly facing water scarcity threats.

This kind of initiative - fully integrated commercial water reclaim programme - will support sustainable growth to tackle water scarcity risks in Asia.