**Abstract of Presentation**

**Presentation Title:**

Membrane technology for water and wastewater treatment in Thailand  
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**Abstract:**

Recently, advanced water and wastewater treatment processes have been considered to be alternative methods to achieve higher drinking water quality standard, industrial effluent standard and wastewater reuse criteria. Membrane technology has grown rather fast in Thailand for water and wastewater treatment. At present, two full scale of RO desalination plants have been constructed at Srichang and Samui Islands for water supply production from seawater. Some major power plants use membranes for deionization process to obtain high quality of DI water. Moreover, many pilot-scale membrane systems for water and wastewater treatment have been set-up and investigated to know feasibility on real application. Some examples for pilot-scale studies are application of MBR(Membrane bioreactor) for high-rise building wastewater reuse, industrial wastewater reuse; Ultrafiltration and Nanofiltration system for water supply production and industrial effluent reuse. Although, membrane technology seems to be challenged in terms of technical aspects, cost-benefit analysis on the project feasibility is still needed to prove reliability for project investment and water production output in long run operation.