

PRESS RELEASE AT THE IWA BEIJING WORLD WATER CONGRESS

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The 'Know-how' in Water Treatment



In the second-floor exhibition hall of water equipment and technology exhibition, Mr. Fu Zhihe with the Singaport CleanSeas Co.Ltd, the subsidiary of the PSA group of Singapore, has brought to Beijing their latest patent design of ultrafiltration membrane and a complete set of water treatment system plan. The MBR (membrane bioreactor) has attracted huge attention in its first public appearance in Beijing.

The reporter has seen that a bucket of yellowish mixed water with other hotchpotch becomes a bucket of clean water by the filtration of this machine. And this water could be used for showering, car washing and toilet flushing, etc. It is said that the biggest wonder of this machine is from the membrane components and membrane system.

Singaporeans Display Their Patent of Membrane Technology

The hollow-fiber ultrafiltration membrane is the core of the MBR.

It is said that selective separation membrane is a special function or inorganic polymers, which can not be linked to the fluid divided into two parts; one or more of the material through, it will separate the other material

The membrane separation technology is the advanced green and energy saving technology of the 21st century. Its large-scale development and industrial application date back to the post 1960s period. It is featured with high efficiency, low energy consumption, and can be separated under normal temperature.

Dr. Li Nianzhi, the well known chemical and membrane expert, the academician of the U.S. National Academy of Engineering, the President of the North America Membrane Society has said

when visiting China in 1994 that "membrane technology is a must for those who want to develop chemical industry". And the international academic field has reached a consensus that "the one that grabs the membrane technology grabs the future of the chemical industry".

In developed Western countries, the membrane technology has been widely applied to the areas of energy, electronics, petroleum chemistry, metallurgy, light industry, textile, printing, food, drinking, health, pharmacy, bio-engineering, environmental protection, resources reclamation and led a revolution in industrial separation technology. In China, despite the fact that the government has put a lot of efforts in developing the research and exploitation of the membrane separation technology and made great progress in the areas of hollow-fiber membrane component production and the membrane water treatment, it must be admitted that China is falling far behind the developed Western countries in the area of the application of the membrane technology into the industrial separation field, which has become the main reason for the high cost, high energy consumption and low efficiency in China's downstream processing industry.

Membrane could be widely applied in the fields of industrial sewage and waste gas treatment, and in the renovation of some traditional technology and clean production.

According to Mr. Fu Zhihe, at present, the waste water that undergoes the membrane bioreactor includes sewage, petroleum chemical waste water, organic waste water, food waste water, beer waste water, and printing waste water, etc. And the membrane bioreactor has been put into use in the projects of building waste water, sewage reclamation, hospital waste water treatment. However, those projects are in small portion.

Written and Photographed by Luyang