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The experiences of Israel water saving technologies for Sichuan to learn

Population continuously increased, agriculture production continuously developed, however the quantity of water usage keeps the same in the last 50 years, this is the miracle of Israel, a country in the most arid area in the world.

On 31st of May, The Israel- Sichuan Water technologies seminar co-sponsored by the Israeli Trade Mission to China, Israel Export and International Cooperation Institute, Sichuan Bureau of Environmental Protection and Sichuan Urban Water Association was held in Chengdu. Israeli companies bring advanced technologies and solutions of water management, dripping irrigation, waste treatment and desalination, etc..

Experiences of Israel

Water saving is the key to challenges.

Israel is the top country in water recycling in the world, water reuse ratio is 75%, dripping irrigation reaches 70%-80% efficiency in agriculture, which is highest in the world; Israel has the largest sea water desalination factory in the world, 20% of water will be from desalination in Israeli. Mr. Tal Hermelin, the deputy director of new tech program said in his speech at the seminar.

“Water Saving is the key to challenges” said Mr. Hermelin, water management is an important task since establishment of the state of Israel. Scientists and engineers develop new efficient water technologies to cope with the challenges of lack of water resources to fulfill the demand of water. The importance of water is deeply embedded in Israeli culture.

Israel is the first country to implement comprehensive total water management system in the world. Wireless water meter network, real time water management system, high durable materials....., by using more reliable water transportation system, improving tracking capability and controlling over water supply and pressure, the leakage ratio of urban water system dropped to 10%. The national water company setup up in 1964 constructed united network through most area, delivers water from north to arid south which is the water lifeline of Israel. Israel also develops many kinds of creative technologies to purify water and recycle waste, for example, the electromagnetic technology which is used to check the impurities in chemicals is applied in water purification, experts in medical and laser cosmetic treatment developed the UV sterilization technology.

The challenge of Sichuan

Improve the recycling ratio of water resources.

“Israel and China face the same challenge in water resources”, said, Mr. Ido Moed, the minister counselor of Embassy of Israel. According to a survey by UN, 20% of world population is facing short of water, and this ratio will reach 50% in 50 years. Sichuan is also a province short of water by per capital. Per capital water resource is 800 cubic meters in many cities of east basin, a few cities only has 400 cubic per capital.

Water shortage is making water the new type of oil in 21 century, water market increases by 7%-8% and became the most increased industry. Mr. Ido Moed said, “Today experts from both China and Israel gather to cooperate. Our goal is to face challenges and resolve bottlenecks in the area of water technology, and by doing that, to support the rapid development of Sichuan Province.”. He wishes the seminar very successful and became a good start for long term cooperation with Sichuan in water industry.

Mr. Xiong Yihua, the vice executive president of Sichuan Water Association said that Sichuan is facing the big challenge of water recycling during the process of building an environment friendly society. Mr. Zhong Qinjian, the vice director of Sichuan Environment Protection Bureau said that Sichuan needs improve the communication and cooperation with foreign countries to improve the level of pollution treatment and water saving technology