Experience and Practice of Dissemination of Environmental Technologies

Submitted by: Sound Global
Experience on Dissemination of Environmental Technologies

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The development of Chinese Environmental Industry

- Growing up with the economic development
- From “disposal of 3W” to integrated industrial system
- The immense development during “12th Five-Year” Planning

The milestones of Sound Group

1993- Industrial wastewater treatment
1999 - First BOT Project
2000 - Hi-standard equipment plant
2002 - Eguard waste management
2006 - Epure, IFC Clean Energy
2008 - manufacture base
2009 - Saudi project;
2010 - 3R Park
2011 - Bangladesh project
... ...
Business Sectors:
- Industrial/Municipal water & waste water treatment
- Equipment production
- Municipal waste treatment
- Municipal sludge treatment
- Hazardous waste treatment
- Clean energy
- Investment & financing, trustee business

Business Chain:
- Industrial water & wastewater treatment
- Municipal water & wastewater treatment
- Municipal sludge treatment
- Clean energy (wind power)
- Hazard waste treatment

Involving:
- Investment
- Consultancy & EPC
- O&M
- Sound group
R&D

Academic Cooperation
- Lanzhou Transportation University
- Tongji University
- Zhongguancun Postdoctoral station

Sound Technology Center
- 8 Patents in 2010
- 31 Patents from 1993-2010

International Cooperation
- Harvard Business School
- MIT Sloan School of Business
- Denver University
- Environmental Officer Training program

Hi-standard water equipment company
- Top 10 environmental equipment supplier since 2004
Municipal Wastewater Treatment

Waste Treatment Project
Case Study of Technology Dissemination

- Water Environment Preservation Equipment (Receiver)
- Asuwei Integrated Waste Treatment Project (Receiver & Disseminator)
- Indonesia PPP Water Supply Project (Disseminator)

Technical Patent Licensed from Japan

Water Environment Preservation Equipment

Function:
- To ease the eutrophication caused by insufficient oxygen dissolution
- Restore natural purification capabilities of the water

- Technical License agreement with Japan
- Built up a JV company
- Lower the price
Asuwei Household Waste Integrated Treatment Plant

“technology receiver and disseminator”

- Completed in 2008
- Canadian reference process
- Canadian aerators and material spreaders
- American rotary kiln technology
- German density separator

Potential technology transfer in Philippines & Indonesia

Indonesia PPP Water Supply Project

- Kota Pasuruan: 210 L/dt (2016)
- Kota Sidoarjo: 100 L/dt (2016)
- PDAB: 100 L/dt (2016)
- Kota Surabaya: 1,000 L/dt (2016)
- Kab. Gresik: 1,000 L/dt (2016)
- Kab. Pasuruan: 2,370 L/dt (2016)
What Matters Dissemination

- Stringent Technical Standards and Specifications
  - Example: Sewage treatment project Saudi Arabia in 2009
- Blocking Limitation of New Technologies Transfer
  - Example: Looking for ultrafiltration membrane technology
- Expensive Technology Transfer Fee
  - Example: Manufacturing technology of evaporation device
- Lack of information, human and financial resources…

Can We Expect…

Information Sharing
Capacity Building
Financial Support
Policy Cooperation
Friendly Environmental
APEC
Can We Expect A better information Mechanism?

- Information and experience sharing among APEC
- Improve the interactions between public institutions and private sectors need
- The specific needs of private sectors

Can We Expect Financing Support?

- Special taxation regulation: local and international
- Special-purpose loan
- Grant Special Insurance allowance
Can We Expect Capacity Building

- Training program
- Site visiting among APEC
- Exhibition

Can We Expect Policy Cooperation

- Formulate the policy, listening the voice from market
- Conduct guidelines on technologies transfer and risk assessment
- Promote Chinese standard and specification
THANK YOU