

The 5th Kitakyushu Initiative Network Meeting

Improvement of Water Supply System in Phnom Penh

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Introduction of Kitakyushu Waterworks

2008

- 1911 Start to water supply
- Water supply capacity : 769,000 m³/day
- Population served: 990,724 capita
- Water resource : 11
- Water treatment plant : 5
- Service reservoir : 47
- Distribution blocks : 88
- Total pipe length : 4,250km

History for International Cooperation

We are carrying out international cooperation by request of national government and JICA.

- 1997~2002 JICA technical cooperation project in Egypt
- 1991~1997 JICA technical cooperation Project in Indonesia
- JICA Partnership Program in Dalian, China
 - 2001~2003
 - 2005~2007
 - 2008 up to now
- Phase1: 2003~2006
- Phase2: 2007~2011
- JICA technical cooperation Project in Cambodia
- 2000~2003 JICA technical cooperation project in the southern areas of Vietnam

[Accepting] 1993~
1,192 participants from 120 countries

[Dispatching] 1990~
82 JICA experts for 7 countries

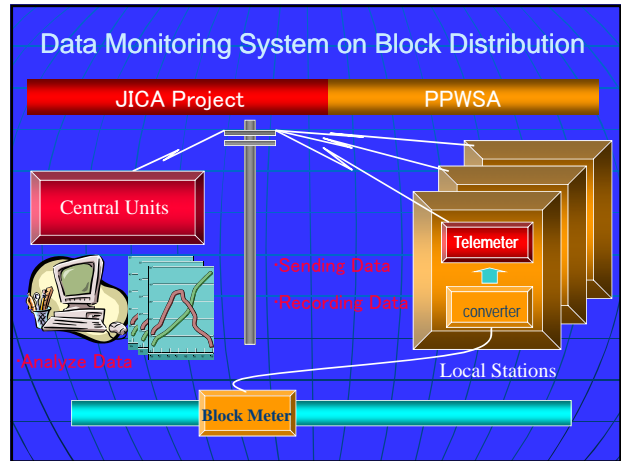
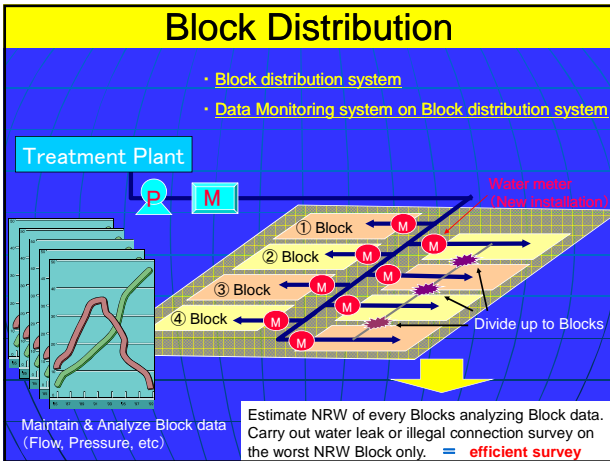
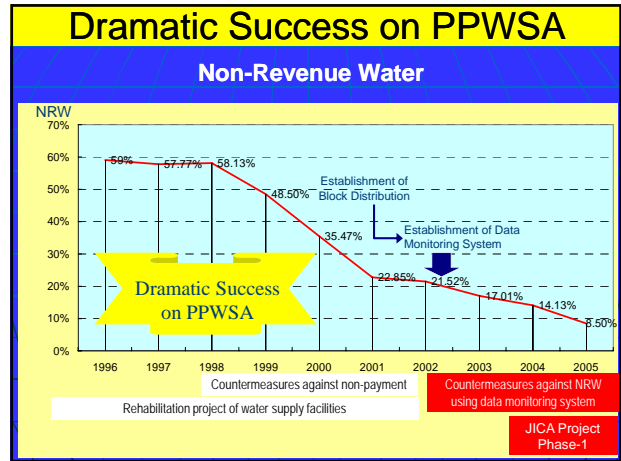
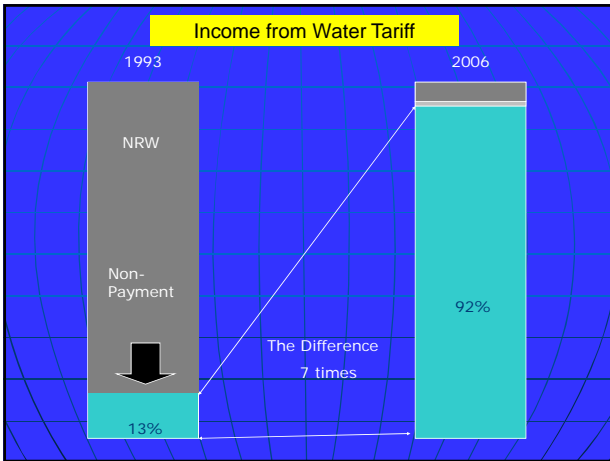
Dramatic Success in Phnom Penh

- Drinkable Water
- 24 hours
- Acceptable tariff

O/M of distribution facilities, O/M of Electrical facilities, Water purification process, Water quality analysis, O/M of Mechanical facilities

Dramatic Success on PPWSA

1993	Indicator	2006
22 staffs	Staff/1,000 connections	4 staffs
65,000	Capacity(m ³ /day)	235,000
25%	Population Served	90%
10 hr/d	Time of Water Supply	24 hr/d
0.2 kgf/cm ²	Ave. pressure	2.5 kgf/cm ²
26,881	Connections	147,000
72%	NRW rate	8%
48%	Water tariff payment rate	99.9%



- #### 1. Facilities

 - Financial assistance of Japan, France, WB, ADB
 - Rehabilitation & expansion of water supply facilities
 - Establishment of customer database system, mapping system and block distribution system
 - #### 2. Human resources

 - Dispatching expert (1999~2002, Kitakyushu)
 - JICA Partnership Program (2001, Kitakyushu)
 - JICA technical cooperation (2003~2006, Kitakyushu & Yokohama)
 - #### 3. Governance (PPWSA Identity)

 - Inter compliance
 - Measures against non-payment
-
- Mr. EK SONN CHAN (GD of PPWSA) had exercised strong leadership to create the good governance.

Conclusion

All of good facilities, good human resources and good governance are necessary to reach for the dramatic success like PPWSA.