

JWWA Annual Conference (Takamatsu City) Association Meeting

October 26th, 2017

Activities of JWWA

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★Agenda★

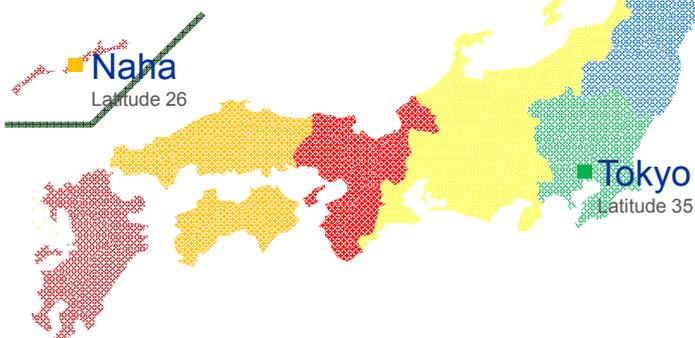
- 1. Water Supply in Japan**
- 2. Activities of JWWA**
- 3. Proposals at IWA World Water Congress**

Water Supply in Japan

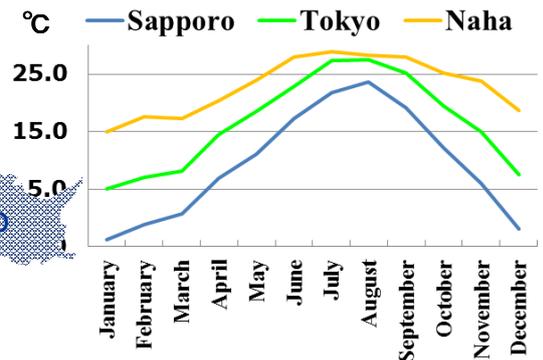
General Information

4 big islands and many small islands
Length from North end to South end: 3,000km

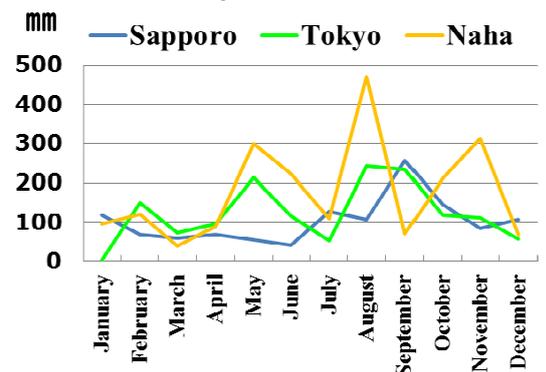
Land Area	377,900 km ² (61 st in the world)
Total Population (2015)	127,102 1,000 capita
Population Growth Rate (2015)	- 0.15 %
GDP per Capita (2015)	34,522 US\$
Life Expectancy (2015)	80.79 male
	87.05 female



Temperature



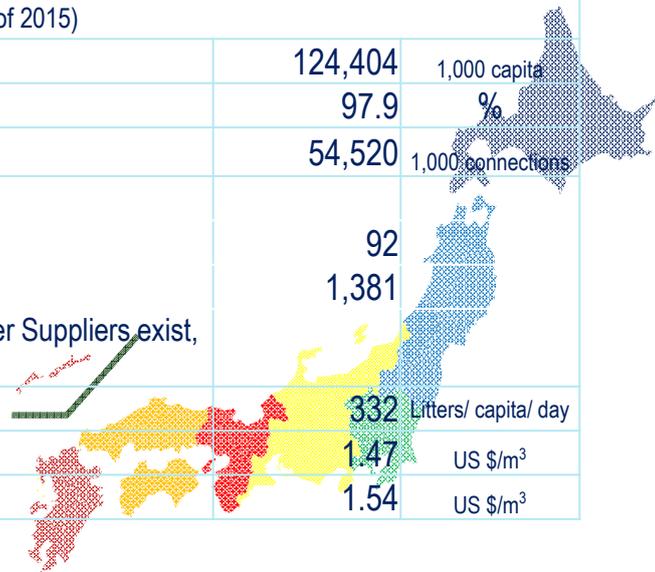
Precipitation



Water Supply in Japan

- Water Supplier: Local Governments
- Regulator: Central Governments
 - Ministry of Health, Labour and Welfare approve the license to supply water and regulate water utilities by Waterworks Law.
 - Other ministries also regulate water utilities by water related law.
- Water tariffs are determined in the councils of Local Governments.

Basic Statistics (as of 2015)		
Water Supply Population	124,404	1,000 capita
Coverage Ratio	97.9	%
Service Connections	54,520	1,000 connections
Number of Water Utilities (Local Governments)		
Bulk Water Suppliers	92	
Water Suppliers	1,381	
In addition to above utilities, 5,629 Small Scale Public Water Suppliers exist, supply populations of which are less than 5001.		
Average Water Consumption (including industrial use)	332	Liters/ capita/ day
Average unit cost per cubic meter	1.47	US \$/m ³
Average unit tariff per cubic meter	1.54	US \$/m ³



Strengths of Water Utilities in Japan

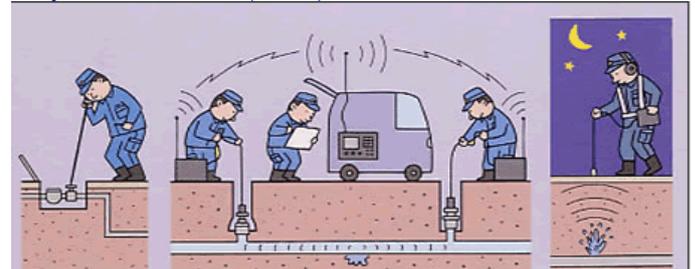
High-level Water Quality

Drinkable Tap Water



Efficient Water Distribution System

Water Leakage Ratio: 7.36% (Japanese Average)
Tokyo Metro: 2.7% (2012)

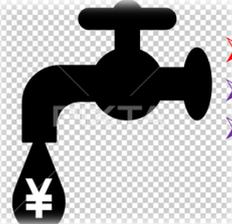


Resilient Facilities against Earthquake



Reasonable Price

- Average of monthly consumption expenditure in a household: 296,336 JPY (2,641.24 US\$)
- Average of monthly water tariff in a household: 1,993 JPY (17.77 US\$)



- **Affordability: 0.7%**
- Electric: 9,472 JPY (84.43 US\$)
- Gas: 4,972 JPY (44.32 US\$)

Issues of Water Utilities in Japan

■ Financial Deterioration (Revenue Reduction)

- Population declining
- Decrease of Water Consumption per Capita
- Decrease of Grants from Central Government

■ Aging Pipes, Aging Facilities

- Pipeline renewal ratio is decreasing because of the financial deterioration

■ Earthquake resistance

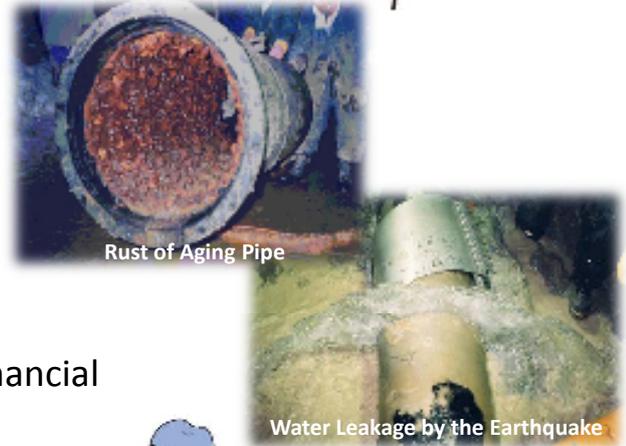
- Rate of the earthquake-resistant facilities is only about 30%

■ Decreasing of Highly Skilled Workforce

- Decrease in the number of staff because of Financial deterioration of municipal government
- Retirement of highly skilled workforce
- Bad-balance of population pyramid

■ Vulnerability of Small Scale Water Utilities

- 70% is Small Scale Water Utility.
- Vulnerabilities of Finance and Personnel



What's JWWA?

- Established by Water Utilities in 1904
- Over 100 years History
- Non-profit corporation to contribute to public health

Memberships

- **Cooperate Members (1,355)**
 - Water Supply Utilities
 - 95% of Japanese Water utilities
- **Individual Members (395)**
 - Professors, Researchers, Utility Staffs etc.
- **Associate Members (563)**
 - Private Companies (Manufacturer, Consultants etc.)

9

Activities of JWWA

- **Improvement of the Environment Surrounding Water Supply**
 - Lobbying Activities against Central Governments and members of the Diet
 - Public Relations to the nation to inform the seriousness of aging facilities, etc.
- **Improve the Level & Quality of Water Supply**
 - Publishing Various guidelines
 - Standardization, Inspection & Certification Services
 - Capacity Building (Training Course)
- **Information Gathering and Transmission**
 - JWWA Journal
 - Various Report
 - Statistics on Water Supply
 - International Activities

10

Recent Topics of JWWA Activities to Solve Issues of Water Utilities

- **Lobbying Activities**
To Expand Budgetary Frame, etc. against Central Governments
- **Publishing “Guideline for Tariff Revision”**
Not only the method to calculate tariff level and tariff table,
but also the measure against city council which decide tariff
- **Promotion of Consolidations and Public-Private Partnerships**
Launched “Consolidation & PPP Platform”
Transferring Experience & Knowledge of consolidation or PPP
from advanced utilities to considering utilities
- **Nationwide Emergency Response Drill**
Verification of “JWWA Mutual Assistance System in Case of
Disaster (based on JWWA Branch System)”
- **IWA World Water Congress & Exhibition**
Working as secretariat of Host Country Committee

11

Association Meeting
October 26th, 2017

Proposals at IWA World Water Congress

IWA World Water Congress & Exhibition 2018

Shaping Our Water Future



16-21 SEPTEMBER 2018, TOKYO, JAPAN



Host Country Committee (HCC)

Japan Society on Water Environment
Government
Japan Water Works Association

Bureau of Waterworks Tokyo Metropolitan
Bureau of Sewerage Tokyo Metropolitan Government
Japan Sewage Works Association

IWA World Water Congress & Exhibition 2018

Period: 16-21 September 2018

Venue: Tokyo Big Site

Expected Participants: 6000

Number of Abstract Submission: 1,600 (As of 13 October)

25% of themes are "Water Utility Management"

Proposal plan of HCC

- HCC Forum Theme
Disaster Countermeasure
Resilience
- Huge Japan Pavilion
Approx. 1000 m²
More than 60 companies
- Other Side Events



Call for Participation of Water Professionals

Proposals at IWA WWC&E 2018 by JWVA

1. Two Workshops on Water Utility Management

- Invite speakers from your Associations
(AWWA, CTWWA, IWWA, KWWA, MWA, PERPAMSI, PWWA, TWA, WSAA, IWA, JWVA)
- Cover the Speaker's Registration Fee of IWA WWC&E
(1 speakers from each association)

2. Association Meeting

- Continue face-to-face relationships
- Enhance Collaboration
Construct the Relationship to Exchange Basic Information
(Statistical data, etc.)
- Association Dinner after Meeting

15

Workshop Outline Proposal (A)

Improvement of Service Level of Water Supply and Appropriate Water Tariff Level - Towards Sustainable Water Supply -

Appropriate tariff settings and tariff collection are fundamental to achieve the sustainable water supply. The achievement of both enable reinvestment in the facilities and construct the sustainable cycle.

In this workshop, we will introduce the measures to secure appropriate tariff levels and measures taken to improve the collection rate in each country, and provide the information to the countries with similar problems

16

Workshop Outline Proposal (B)

Efficient Management of Water Supply by Introducing Public-Private Partnership

Improving efficiency of water supply management is an essential issue for sustainable water supply. By pursuing efficiency, we will be able to provide high quality water service with reasonable cost.

In this Workshop, we explore the efficient management patterns according to the circumstances from case studies of Public-Private Partnerships in each country.

17

Please give us your opinion

IWA Workshop

- Possibility of Participation by your Association (Country)
- Workshop that wishes to participate
- Opinion about Planning Proposal

Association Meeting

- Possibility of Participation by your Association

Information Exchange on Statistics

- Items of Statistics

18

Thank you for your time.

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