

IWRM experience in JapanThe case of Tone Canal Project

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Japan Water Agency (JWA)
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The Role of Tone Canal Project

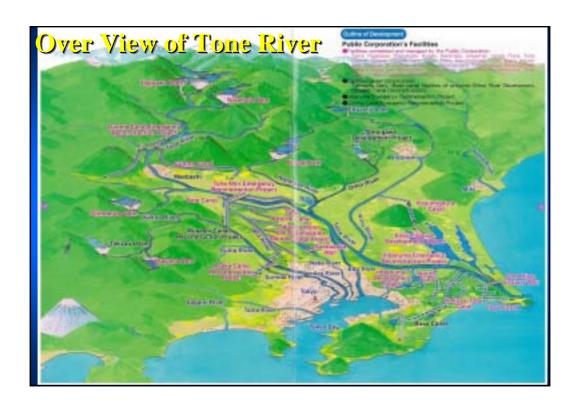


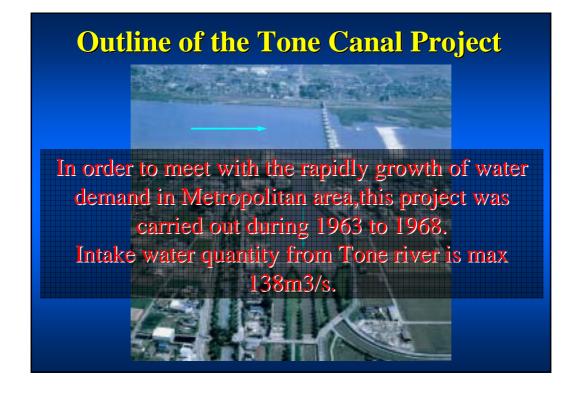
In order to meet with the rapidly growth of water demand in Metropolitan area, this project achieved to supply water large quantity and rapidly from the Tone River middle reach.



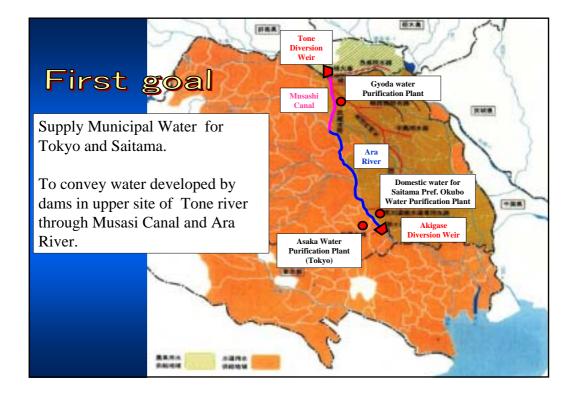


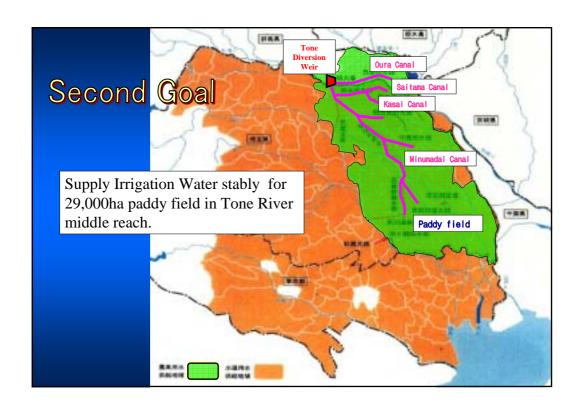




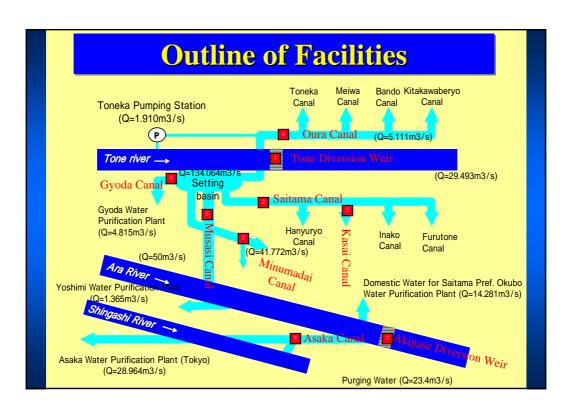


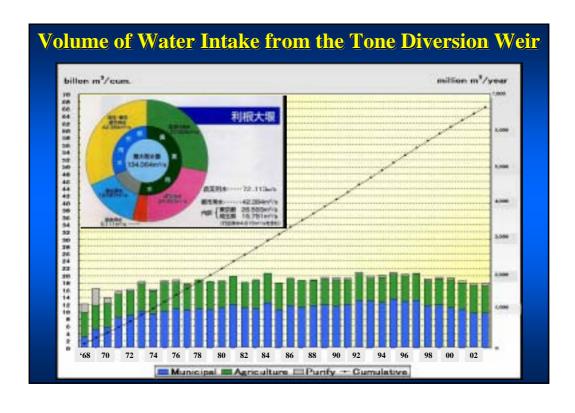






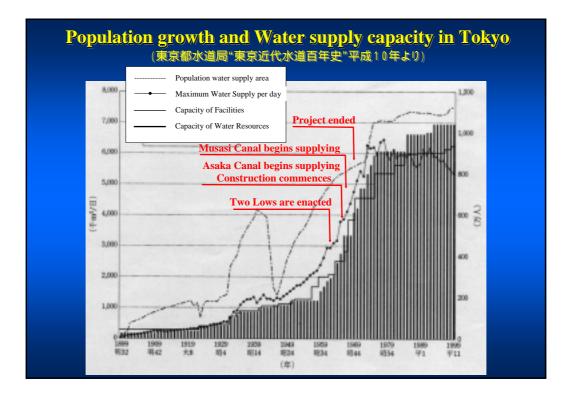


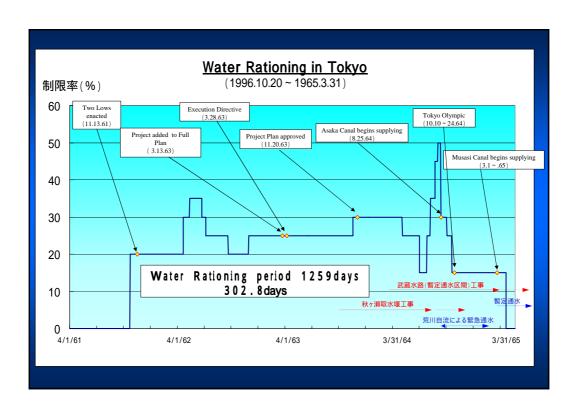


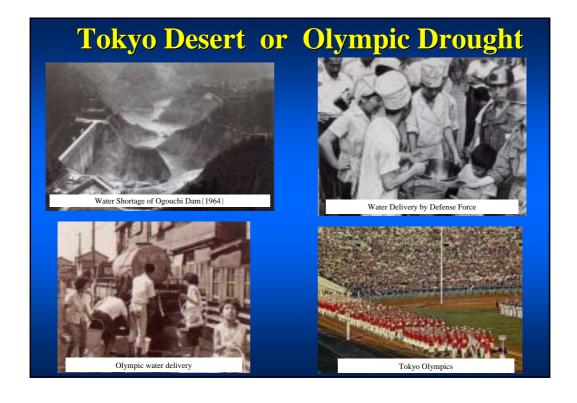


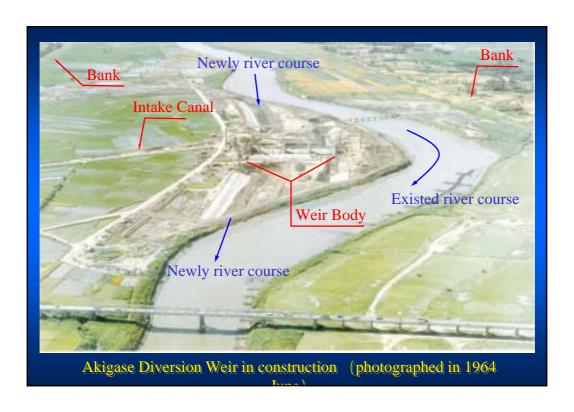
Historical Overview of the Tone Canal Project

1961	Two Lows are eacted.
1963	Project is added to Full-Plan.
1963	Project Plan is approved and construction commences.
1964	Work begins on the Musasi Canal.
1964	Asaka Canal begins suppling Metro's water.
1964	Tokyo Olympics is held.
1965	Musasi Canal begins suppling on a temporary basis.
1965	Construction works begins on Tone Diversion Weir.
1968	Water suppling begins by using Tone Diverdion Weir and Tone Weir Operation Center is established.







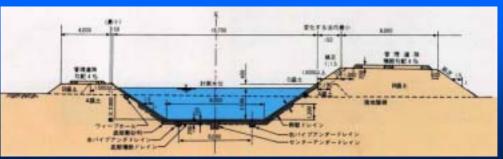


Akigase Diversion Weir Begins water supplying 1 and half months before Tokyo Olympic

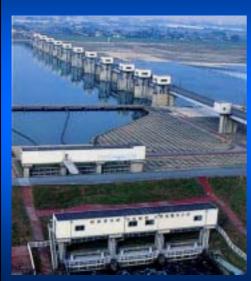




Constructed in 1 year and two months , begins water supplying 1965.3.1 on a temporary basis. Max. quantity is $50 \text{m}^3/\text{s}$.



Tone Diversion Weir

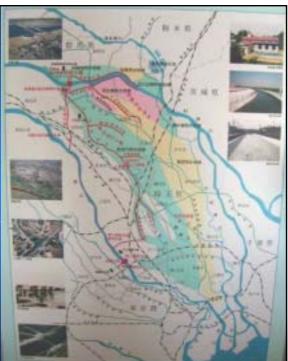


Constructed during 1965.10.30. to 1968.8

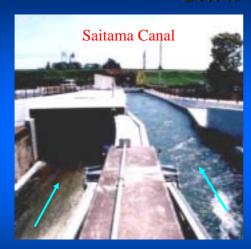
Begins water supplying by using Weir 1968.4.1

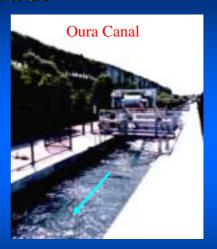
Agricultural water's Intake Unification

Irrigation water's intakes, which were developed and used 400 ~ 300 years ago, are unified to intake water stably.



Link Canal





Link Canals, which link Tone Diversion and existing agricultural intakes, are constructed during Nov.1965 ~ March 1968. Unified water intake began on '68.

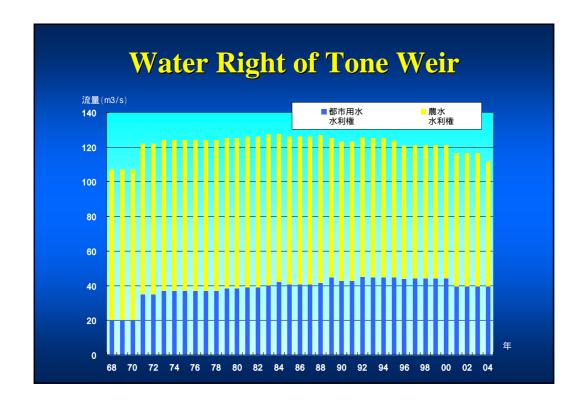
Saitama Second Stage Project

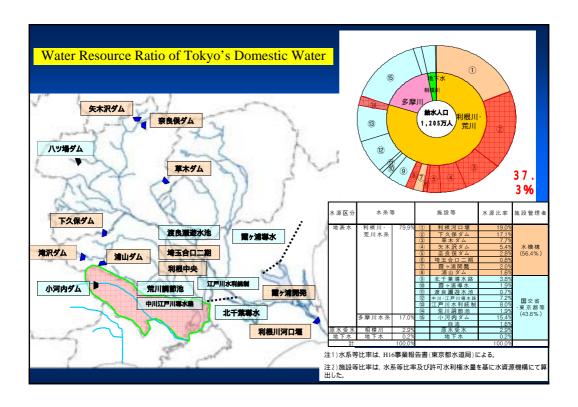
	用水路	水路名	通水量
事業実施前	農業用水	見沼代用水路	44.600m3/s
事業実施後	農業用水	見沼代用水路	37.509m3/s
尹未夫厄恆	都市用水		4.263m3/s

事業工期:昭和54年度~平成6年度









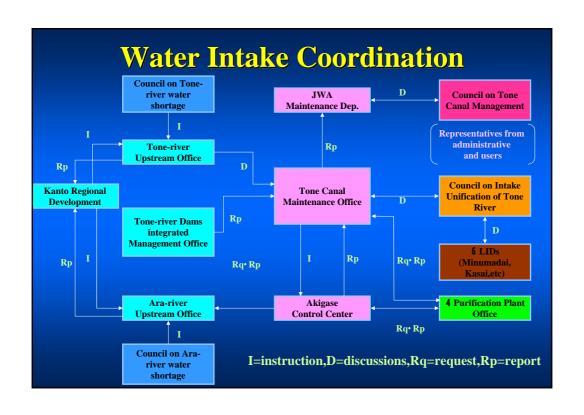
Maintenance Work

Water was for

Agriculture 6 LID 29,000ha

Domestic 6 purification plant.

Industry





Maintenance on Preventing Disaster



Flood time Operation at Operation-room





Flood-time Operation

Information Changing with Users









