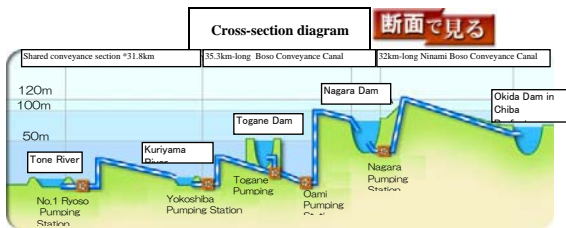
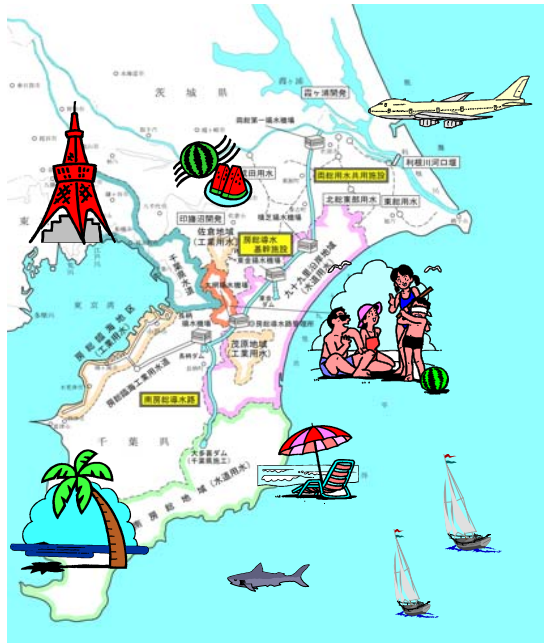


Boso Conveyance Canal



Coveyance Canal Benefits Boso Peninsula



Project's Objective

The objective of the project is to provide water to the following areas with total of 8.4m³/sec at the average rate of 3.5 m³/sec for irrigation water and 4.9m³/sec for domestic water. Portion of water resources is taken up from dam reservoirs in the upstream of Tone River at average rate of 6.6m³/sec and two other dam reservoirs of Togane and Nagara dams at the average rate of 1.8m³/sec, which is managed by our office.

Irrigation Water

Water is discharged to Chiba Coastal Industrial Region and its neighbouring areas at the average water volume of 3.5m³/sec.

Supplied Areas of Domestic Water

Sosa City, Yokoshibahikari Town, Togane City, Sanmushi City, Kujukuri Town, Oamishirasato Town, Mobara City, Shirako Town, Chosei Village, Ichinomiya Town, Mutsuzana Town, Chonan Town, Nagara Town, Katsuuru City, Otaki Town, Isumi City, Onjuku Town, Tateyama City, Kamogawa City, Minabiboso City and Kyonan Town

To 21 cities, towns and villages: 2.64m³/sec

To Chiba City :0.411m³/sec

For Securing Stable Water Supply to Boso Peninsula

The Boso Conveyance Canal Operation and Maintenance Branch Office operates and manages water facilities of pumping stations, canals and dams to collect newly developed water at dam reservoirs in the upstream of Tone River and convey the intake water to the areas in demand of water such as Kujukuri coastal area, Nanboso area and Nanbo Coastal Industrial Region. For securing stable water supply to those areas, the office monitors intake volume of water and water storage volume of dam reservoir so that it operates each facility in the most effective way.

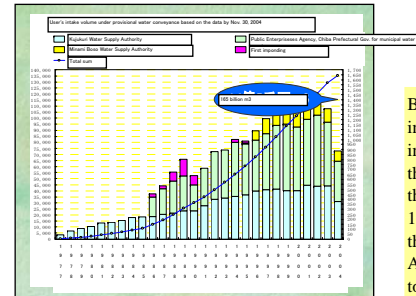
The active reservoir capacity of Nagara dam reservoir and Togane dam reservoir is 9.6 millionm³ and 2.3 million m³ respectively.

The type of both Nagara and Togane dam is earth fill dam. For 52m-high Nagara Dam is one of the highest dams in Japan.



Nagara Dam

Based on the needs of each user for domestic and industrial water, its operation started in 1977 and in 1986 respectively. The former is supplied to the Water Supply Authority in Kujukuri area and the latter is to Chiba Prefectural Government. In 1995, domestic water started to supply water to the Water Supply Authority in Minabi Boso Area. As of March of 2005, approximately 1.68 billion tons of water had been provided.



Incorporated Administrative Agency Japan Water Agency

Narita, Hokusotobu, Toso, Boso Canals and Inba-numa Comprehensive Operation and Maintenance Office, Boso Canal Operation and Maintenance

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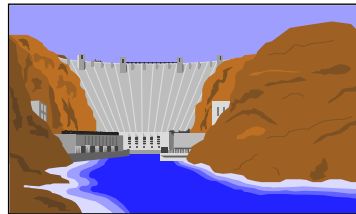
Email boso-ca@mx3.ttcn.ne.jp

Powerful Water of Boso



Tonegawa Ryoso Gate

This Tonegawa Ryoso Gate is a start point of Boso Conveyance Canal. Water from Tone River is taken up at this gate and conveyed the water to No.1 Ryoso Pumping Station.



No.1 Ryoso Pumping Station



Northern Main Canal

Water taken up from Tone River by a pump installed at No. 1 Ryoso Pumping Station is discharged at the maximum volume of 17.47m³/sec. The model of installed pump is Double Suction Horizontal Shaft Volute Pump. At this pumping station 5 pumps with 1 200 mm

Pumped water at No. 1 Ryoso Pumping Station is conveyed to *Kuriyama* River through the northern main canal. The northern main canal consists of a tunnel and open-canal.



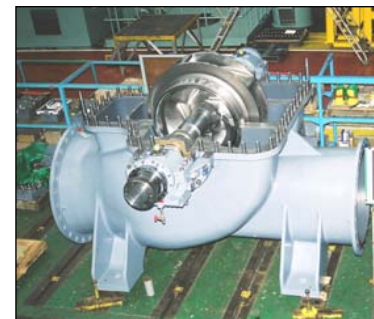
Yokoshiba Pumping Station

Water of *Kuriyama* River is pumped up at Yokoshiba Pumping Station located



Yokoshiba Pumping Station

Pumped water at the Yokoshiba Pumping Station is conveyed to *Oami* Pumping Station through a tunnel of conveyance canal, or closed conduit and siphon. Again, the conveyed water is pumped up and carried to Nagara Dam.



Photo(left) shows internal parts of a volute pump. In the volute pump, a bladed wheel is installed in a whorl-shaped case. Water moves from right to left by centrifugal force by spinning around the blades. (It is the same principle that rainwater splashes by spinning an umbrella around) This pump has 1,200 mm of bore diameters and enables to carry water at average rate of 2.894m³/sec. This allows to fill up a 25-m long swimming pool in 90 seconds.



Togane Dam

Togane Dam is an earth dam with height of 52m and the active reservoir capacity of 2.3



Naraga Dam

Water taken up from *Tone* River in *Katori* City in *Chiba* Prefecture is conveyed to *Okita* Dam, which requires 19 hours of conveying water travelling about 100 km distance through canals, pumping station, and