



Fig. 1 Phase 1 Keage Power Station.



Fig. 2 Two penstock runs in the Keage Power Station.

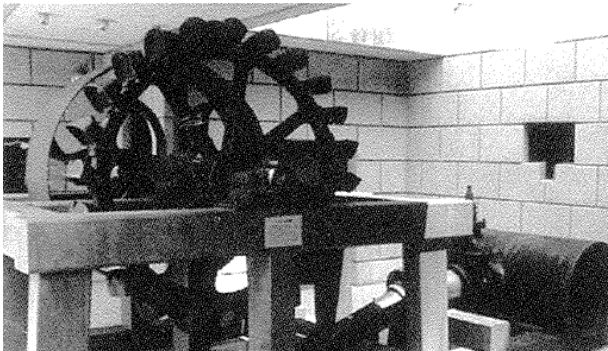


Fig. 3 One of Pelton turbines installed in the Keage Power Station.

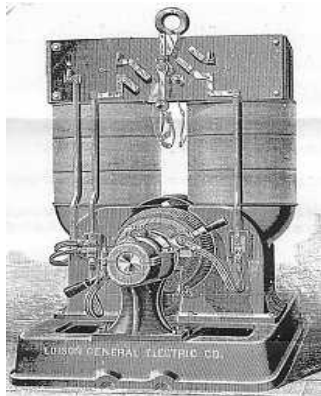


Fig. 4 Edison dc-generator installed in 1891.



Fig. 5 Incline tracks built in the Keage Power Station

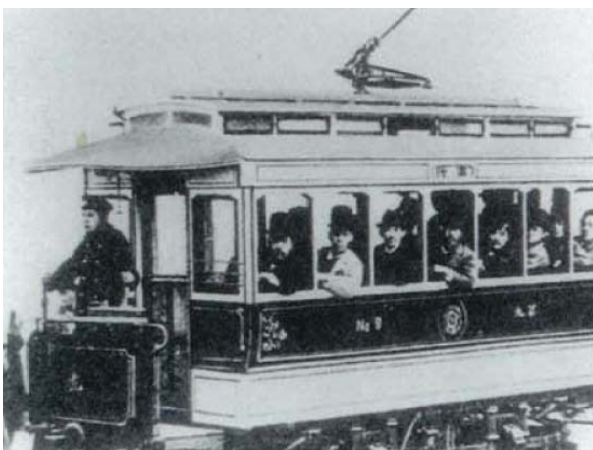


Fig. 6 Japan's first streetcar in Kyoto

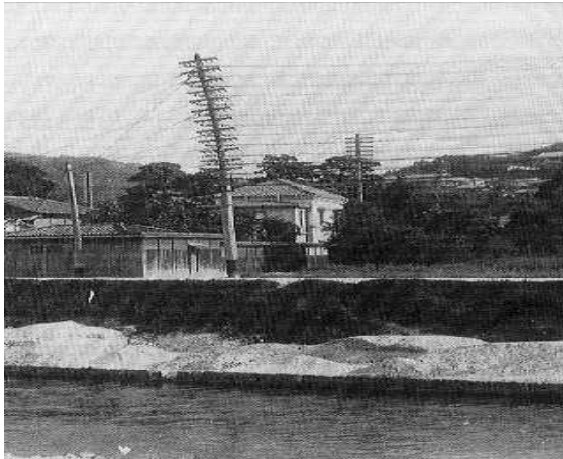


Fig. 7 Numbers of power lines hung on a power pole.

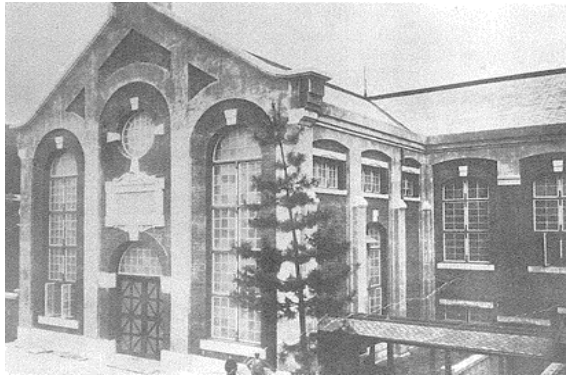


Fig. 8 The Phase 2 Keage Power Station

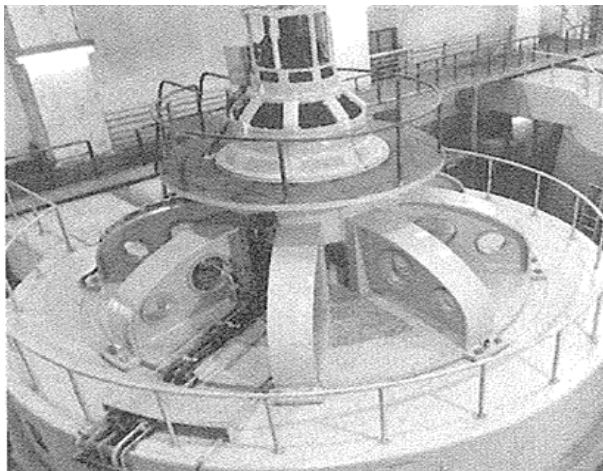


Fig. 9 Hitachi 3-phase ac-power generator in the Phase 3 Keage Power Station

Table 1: Generators installed in the Keage Power Station

Date	Maker	Type	kW	Volt	Hz	Application
1891, 6	GE ^(*) , USA	DC	80	500	---	power
1891, 6	GE, USA	DC	80	500	---	power
1891, 6	TH ^(**) , USA	AC 1 ^(*3)	75	1100	125	light
1891, 12	GE, USA	AC 1	60	2080	125	light
1894, 4	GE, USA	AC 1	60	1040	125	light
1894, 4	GE, USA	AC 1	60	2080	125	light
1894, 8	ST ^(*4) , USA	AC 2 ^(*5)	60	2000	133	power
1895, 6	TS, J. ^(*6)	AC 2	60	2000	133	power
1895, 8	GE, USA	DC m ^(*7)	200	500	---	elect. rail
1895, 9	ST, USA	AC 2	80	2400	133	power
1895, 9	GE, USA	DC m.	75	500	---	power
1895, 12	GE, USA	DC m.	100	500	---	elect. rail
1896, 1	SH, G. ^(*8)	AC 3 ^(*9)	80	2000	50	power
1896, 4	SH, G.	AC 3	80	2000	50	power/light
1896, 6	GE, USA	AC 3	100	2400	60	weaving
1896, 6	SH, G.	AC 3	80	2000	50	cotton spin.
1896, 9	GE, USA	DC m.	200	500	---	cotton spin.
1896, 6	SH, G.	AC 3	80	200	50	tobacco
1897, 5	GE, USA	AC 3	150	2000	60	cotton spin.

(*) General Electric, (**) Thomson-Houston, (*3) single-phase AC-generator, (*4) Stanley, (*5) 2-phase AC-generator, (*6) Tokyo-Shibaura, Japan, (*7) multipolar DC-generator, (*8) Siemens-Halske, Germany, (*9) 3-phase AC-generator.