
MISCELLANEOUS

Questionnaires Survey for EINA

Comments for EINA by 5 persons from Asia studying in High Voltage Group of Southampton University in UK:

- Have you ever seen this magazine?

YES/NO : 3 / 2

- What kind of news do you expect on this magazine?

- Some research and achievements directly and closely related with industries
- The newly developed technique in Electrical Insulation
- New research project
- New measurement technology
- Some new research direction

(Sesearched by Dr.Yasuhiro Tanaka (Musashi Institute of Technology) in Southampton Univ. UK)

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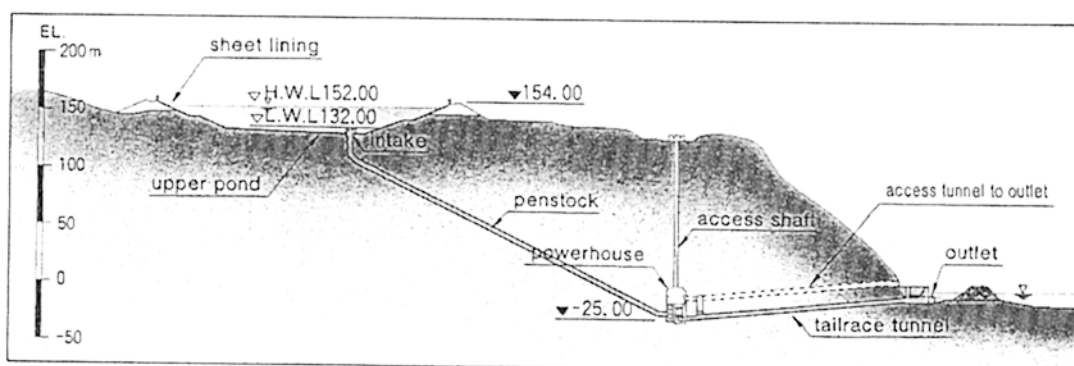
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Photos of Front and Rear Covers

Front cover:

A demonstration plant of seawater pumped-storage power plant started to operate in March 1999. This is the world's first high head type pumped - storage power plant using seawater. This plant is located in Okinawa island which is in the south of Japan, and is constructed to conserve the land and sea, and the animals and coral occupying those areas. The plant has maximum output of 30MW and a variable speed pumped-storage power generation system, based on gate turn off thyristor converter-inverter ac excitation system. A cross-sectional outline is as a diagram below. The project was implemented by the Electric Power Development Co., Ltd. as entrusted by the Ministry of international Trade and industry of Japan

(The photo is offered by the Electric Power Development Co., Ltd.)



A cross-sectional outline of seawater pumped-storage power plant in Okinawa

Rear cover:

The electric field distribution between needle to plate electrodes under the existence of primary filament (streamer) in cyclohexane was calculated by 3-dimensional axis - symmetrical finite element method. The effect of injected charge on the field distribution near the tip was shown in the figure. Tip curvature and applied voltage were $0.5 \mu\text{m}$ and -4.9kV , and injected charge were (a) 0.025pC , (b) 0.05pC , (c) 0.1pC and (d) 0.25pC , respectively.

(By Prof. Hisanao Yamashita, Keio University)

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