
MISCELLANEOUS

Photos of Front and Rear Covers

Front cover:

The Kii Channel HVDC Link has been constructed to transmit electricity from the Tachibana Bay Coal Power Plants (3500MW) in Shikoku island to the Kansai area in the main island of Japan by the Kansai Electric Power Co., Inc, Shikoku Electric Power Co., Inc. and Electric Power Development Co., Ltd. It started operation in July 2000 and reinforced the interconnection between Shikoku and Kansai electric power systems.

From the Anan converter station to the Yura Switching Station, submarine cables (48km long) and land cables (2.7km long) were installed and from the Yura Switching Station to the Kihoku converter station, overhead lines were installed.

The upper left photo shows the beautiful sun set over Shikoku Island, seen from the Yura switching station side.

The lower right photo shows 500kV 3000mm² DC submarine cable (the largest in the world).

(The photos are offered by the Kansai Electric Power Co., Inc.)

System specification	Phase 1 (at present)	Phase 2 (in future)
Transmission capacity	1400MW	2800MW
Voltage	± 250kV	± 500kV
Current	2800A	2800A

Rear cover:

The charge distribution in degraded insulating wall of XLPE cable including water tree was measured using the pulsed electro-acoustic (PEA) method. When the dc high voltage is applied to XLPE including water tree, homo charges are observed around the tip of the water tree. The charge distribution was measured under 40kV DC voltage application. The red and blue rings stand for the induced charge by dc voltage application on the inner and outer electrodes, respectively. The blue (①~②) and red (③~⑥) regions show the existence of water trees. Comparison between the cross-section images and microscope photographs of water tree shows a good agreement between space charge formation and the water tree location.

(by Chikashi Takeya, Tatsuta Electric Wire and Cable. Co., Ltd.)

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Preparation of the Home Page for the EINA Magazine

The Home Page of the EINA magazine is now under construction. It will be open in the end of 2000 at the URL of <http://boss.eee.tut.ac.jp/eina/>.

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