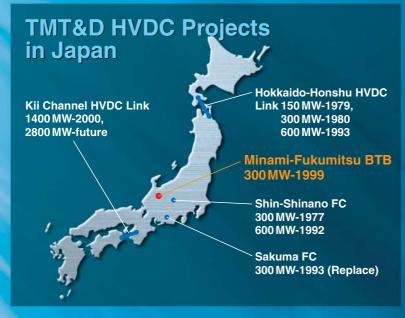


## Minami-Fukumitsu Back-to-Back Converter Station





Minami-Fukumitsu
Back-to-Back Converter
Station

- Ratings 300 MW, 125 kV-dc, 2400 A-dc
- Commissioned March 1999

## Minami-Fukumitsu Back-to-Back Converter Station

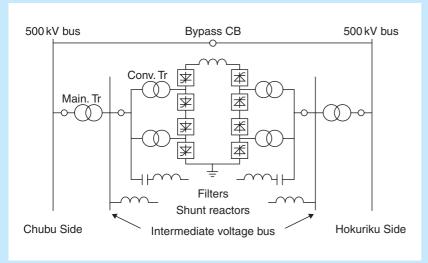
The Minami-Fukumitsu Back-to-Back converter station is the first asynchronous DC link facility in Japan designed to interconnect the Chubu Electric Power Co. and the Hokuriku Electric Power Co. The system went into service in March 1999.

A multi-variable controlled AFC (Automatic Frequency Controller) is installed to stabilize the frequency after a large disturbance, and to enhance the suppression of frequency fluctuations.



## Photos:

Above; 300 MW, 125 kV-dc - 2400 A-dc LTT thyristor valves for Chubu side. Front page; Minami-Fukumitsu Converter Station. The valve hall building is shown on the right side.



Minami-Fukumitsu Back-to-Back **Project Name** Converter Station Commissioned March 1999 Minami-Fukumitsu Back-to-Back Location Converter Substation Chubu Electric Power Co., Inc. Toyama, Japan Rating 300 MW, 125 kV-dc, 2400 A-dc AC System Voltage 500 kV/77 kV(Chubu side), 500 kV/66 kV(Hokuriku side) Converter Valve Water Cooled, air insulated quadruple valve Valve Configuration 28 s/arm 4 modules/arm 12 arms s: series Triggering Direct light triggering Ratings of Thyristor 6 kV-2500 A LTT (4 inches) **Number of Thyristors** 336 Controller Direct digital controller

• The data given in this catalog are subject to change without notice.

Automatic frequency control



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