



100 MVAR DYNAMIC COMPENSATION

GE Vernova's Power Conversion business has put the 100 Mvar dynamic compensation system for the electric arc furnace (EAF) of the Zhujiang Steel plant in Guangzhou, China, into operation.

Key Data

Network voltage	33,000 V, 50 Hz
Dynamic power	0-100 Mvar capacitive
Filter circuits	100 Hz, 140 Hz, 190 Hz
Filter circuit power	100 Mvar, 238 Mvar installed
Rectifier	3x Semivar W 5042/1200/11.4
Thyristors	144 pieces, T729N4200
Control	Logidyn-D1 (COP, TCU, BIO, DEP)
220 kV network	$S_{k\min} = 6500 \text{ MVA}$
$dV_{10} < 0.28\%$; $P_{st} < 0.84$; $THD < 1.5\%$; $U_2/U_1 < 1.1\%$; $I_2/I_1 < 1.3\%$; $\cos\varphi > 0.95$; $\Delta U_{\max} < 1.28\%$	



Outdoor facility



Three-phase frames of thyristor converter