

INGEBER, the energy recovery system developed by INGETEAM to recover energy from train braking, will be installed in MetroRio, and will for the first time in South America.

Metro Rio will reduce its energy bill and its emissions by installing INGERBER on a substation located on line 2.

INGEBER is transparent to operation and solves energy recovery limitations allowing the operator to consume on its own network the energy recovered.

The system is made up of a double converter, connected to the catenary in parallel with the substation's rectifier, and to the already existing transformer.

It monitors the state of the catenary at all times, and if there is energy to be recovered, converts it into high quality alternate current, which can be consumed.

System Characteristics

Catenary voltage:	750 Vdc
Max. Power:	1,200 kW
Nominal Voltage	750 Vdc
Voltage Max. DC:	900 Vdc
AC Side Current, max.:	1,375 A
AC voltage nominal:	630 Vac
THD%	<5%
Output frequency	60Hz
Cooling system:	Forced Air



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Power diagram

