Rio Madeira HVDC Project

GE puts the world's longest transmission line in commercial operation

THE RIO MADEIRA PROJECT

GE Energy Connections puts the world's longest transmission line in commercial operation. The Rio Madeira project will connect renewable energy to 44 million people in the city of São Paulo.

SÃO PAULO

22% of Brazil's population

US$1B GDP

32.1% of the country's GDP

LARGEST economy of Latin America

44M inhabitants

UNDERSTANDING THE PROJECT

World's longest transmission line 2,375 km

PORTO VELHO

GE CONVERTER STATION

ARARAQUARA

GE CONVERTER STATION

BRAZIL

Porto Velho

Water Dam

Araraquara

Alternating Current (AC)

±600kV - 3,150 MW HVDC link

Direct Current (DC)

Alternating Current (AC)

HIGH VOLTAGE DIRECT CURRENT (HVDC)

HVDC is the only feasible solution to transmit 3150 MW power generated to consumption areas, making existing power grids more efficient.

The technology can transmit 3x more power over long distances than traditional alternating current transmission.