

# High Speed Rail Systems' Sustainability & Renewable Energy Commitments

System	Sustainability Focus Areas	Regular Reporting?	Energy Details
Network Rail	3 "e"s across focus areas: Water, Materials, Waste, Stations, Biodiversity & Ecology, Energy (Carbon)	Yes	Energy load reduction & Electrification. Relying on the national grid to de-carbonize. <b>Solar generation on some stations</b>
SNCF	3 "e"s	Yes	Energy load reduction and electrification. France's grid is primarily fed with nuclear power <b>Solar panels on car parks, some generation at new 'ecosustainable stations'</b>
Deutsche Bahn	Company, Customers, Products, Employees, Environment	Yes	Direct Purchase. A program that shippers can opt into and obtain a 'carbon neutral' trip. <b>DB's vision is for traction current to be entirely CO2-free in 2050.</b> Currently contracted for 25 wind turbines (not on DB ROW)
Taiwan	Environment	Yes	Relies on national grid which has a .2% of renewable power Solar panels on Hsinchu station, and on equipment rooms
South Korea	Safety, Environment, Customers, Business Growth	Yes	Energy load Reduction & Electrification. SK's national grid is based on nuclear generation. <b>Building integrated PVs on stations</b>
Japan	Environment, Safety, Society	Yes	Energy load Reduction
China			National Grid has .4% from wind power.
Spain	3 "e"s are a management model and a brand	Yes	Energy load reduction & Electrification. Spain's grid has one of the highest percentages of solar
Italy	Environment	Yes	Focus on efficiency. National grid is aiming for 17% renewables by 2020
Belgium (Thalys)	Passenger health and safety, Connectivity, Environment Social commitments, Partnerships	<i>Carbon footprint</i>	<b>Belgium provides a rare example of a rail system coordinating with an energy company to generate renewable power directly in the rail right of way and fed into the rail system</b>
Eurostar	Cut carbon, Have a Plan, Carbon Neutral	Yes	Increased ridership and purchased more nuclear-generated electricity to lower GHG emissions associated with the train. Eurostar buys carbon credits
Switzerland	Customers, Environment, Employees, Economy, Safety, Management	Yes	SBB, Switzerland's largest rail operator, produces most of the power needed for train operations in its own hydroelectric power stations