

GE Grid Solutions



GIL

Gas-Insulated Lines up to 800 kV, 63 kA, 6 300 A

GE makes the most of 50 years of experience in design, material selection, development, engineering, manufacturing and servicing of gas-insulated substations.

GE's gas-insulated lines meet the challenges of networks up to 800 kV for all applications: power generation, transmission and heavy industry.

Highest Experience

- Design grounded by 50 years of experience
- First super-long (17 km) 420 kV GIL installed in 1997
- Superior know-how, out of over 200 km of GIL installed all over the world

Shortest Site Works

- Optimum design
- Easy installation



420 kV GIL - SF₆-free with g³ gas mixture

Smart Grid Features

- Full-digital monitoring, control and protection

Low Environmental Impact

- SF₆-free option, g³, with more than 99 % global warming potential reduction versus SF₆
- First-in-class gas sealing system

Customer Benefits

- Maximum safety
- Low environmental impact
- Field-proven reliability
- No induced current
- Lowest electromagnetic field
- Low total cost of ownership



Imagination at work

Applications: Gas-Insulated Lines up to 550 kV



245 kV GIL - Total length: 2 100 m



362 kV GIL in vertical shaft (140 m high)
Total length: 900 m



420 kV GIL - Total length: 1 260 m



420 kV GIL - Total length: 1 200 m



420 kV GIL - Total length: 1 200 m



420 kV GIL - Total length: 2 550 m



550 kV GIL - Total length: 5 900 m



420 kV GIL - Total length: 15 000 m

Main Ratings

Voltage	kV	253	420	550	800
Withstand voltages, to earth					
Short-duration power-frequency	kV	460	650	740	960
Switching impulse	kVp	-	1050	1175	1550
Lightning impulse	kVp	1050	1425	1550 / 1675	2100
Continuous current	A	4000	5000	5000 / 6300	5000
Short-time withstand current	kA	63	63	63	50
Peak withstand current	kAp	170	170	170	135

Other data available on request.

For more information please contact
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