

Benson[®] HRSG

Reference list
Updated: December 2025

References since 1999

No. Start of operation	Project Country	CCPP supplier	HRSR supplier HRSR type	Gas turbine	Configuration Power output	No. of HRSRs	HP steam p / bara T / °C
1 1999	Cottam UK	Siemens	Dt. Babcock horizontal	SGT5-4000F	s-sh ~ 390 MW	1	125 565
2 2007	Herdecke Germany	Siemens	Ansaldo horizontal	SGT5-4000F	m-sh 1:1 ~ 400 MW	1	125 565
3 2007	Hamm-Uentrop Germany	Siemens	Ansaldo horizontal	SGT5-4000F	2x s-sh ~ 800 MW	2	125 565
4 2010	Langage UK	Alstom	Alstom horizontal	GT26	m-sh 2:1 ~ 885 MW	2	160 585
5 2010	Lingen Germany	Alstom	Alstom horizontal	GT26	m-sh 2:1 ~ 850 MW	2	160 585
6 2010	Irsching 5 Germany	Siemens	STF horizontal	SGT5-4000F	m-sh 2:1 ~ 820 MW	2	125 565
7 2009	Sloe Centrale Netherlands	Siemens	CMI horizontal	SGT5-4000F	2x s-sh ~ 870 MW	2	125 565
8 2010	Severn Power UK	Siemens	CMI horizontal	SGT5-4000F	2x s-sh ~ 870 MW	2	125 565
9 2010	Gönyü Hungary	Siemens	STF horizontal	SGT5-4000F	s-sh ~ 400 MW	1	125 565
10 2010	Malzenice Slovakia	Siemens	STF horizontal	SGT5-4000F	s-sh ~ 400 MW	1	125 565
11 2010	Pego Portugal	Siemens	NEM horizontal	SGT5-4000F	2x s-sh ~ 870 MW	2	125 565
12 2011	Irsching 4 Germany	Siemens	Siemens horizontal	SGT5-8000H	s-sh ~ 530 MW	1	170 600
13 2012	Joetsu 1-3 Japan	Hitachi	BHK horizontal	GE F7FA+e	3x m-sh 2:1 ~ 1560 MW	6	150 565
14 2012	Joetsu 4 Japan	Hitachi	BHK horizontal	GE F7FA+e	m-sh 2:1 ~ 520 MW	2	150 565
15 2012	Lodi US	Siemens	N/E horizontal	SGT6-5000F	m-sh 1:1 ~ 284 MW	1	112 560
16 2013	Bugok 3 South Korea	Siemens	BHI horizontal	SGT6-8000H	s-sh ~ 400 MW	1	150 585
17 2014	Andong South Korea	Siemens	BHI horizontal	SGT6-8000H	s-sh ~400 MW	1	150 585
18 2014	Ansan South Korea	Siemens	BHI horizontal	SGT6-8000H	m-sh 2:1 ~ 820 MW	2	150 585
19 2014	Panda Temple 1 US	Siemens	NEM horizontal	SGT6-5000F duct firing	m-sh 2:1 ~ 700 MW	2	160 565

No. Start of operation	Project Country	CCPP supplier	HRSR supplier HRSR type	Gas turbine	Configuration Power output	No. of HRSRs	HP steam p / bara T / °C
20 2014	Sherman US	Siemens	NEM horizontal	SGT6-5000F duct firing	m-sh 2:1 ~ 700 MW	2	160 565
21 2016	Lausward Germany	Siemens	Siemens horizontal	SGT5-8000H	s-sh ~ 595 MW	1	170 600
22 2014/15	Posco 7-9 South Korea	Siemens	BHI horizontal	SGT6-8000H	3x s-sh ~ 1200 MW	3	150 585
23 2014/15	Daegu South Korea	Siemens	BHI horizontal	SGT6-8000H	s-sh ~ 400 MW	1	150 585
24 2015	Cengiz Samsun Turkey	Siemens	Doosan horizontal	SGT5-8000H	s-sh ~ 590 MW	1	170 585
25 2015	Panda Temple 2 US	Siemens	NEM horizontal	SGT6-5000F duct firing	m-sh 2:1 ~ 700 MW	2	160 565
26 2015	TNB Prai Malaysia	Samsung C&T	Doosan horizontal	SGT5-8000H	2x s-sh ~ 1150 MW	2	170 585
27 2016	San Gabriel Philippines	Siemens	NEM horizontal	SGT6-8000H	s-sh ~ 400MW	1	160 585
28 2016	Bandirma 2 Turkey	Siemens	NEM horizontal	SGT5-8000H	s-sh ~ 600 MW	1	175 600
29 2017	Dangjin 4 South Korea	Siemens	DKT horizontal	SGT6-8000H	m-sh 2:1 ~ 820 MW	2	150 585
30	Shaybah Saudi Arabia	SEPCO	NEM vertical	GE 7EA	2x m-sh 3:1 ~ 370 MW	6	92 537
31 2018	Beni Suef Egypt	Siemens	NEM vertical	SGT5-8000H	4x m-sh 2:1 ~ 9840 MW	8	165 585
32 2018	Burullus Egypt	Siemens	NEM vertical	SGT5-8000H	4x m-sh 2:1 ~ 9840 MW	8	165 585
33 2018	New Capital Egypt	Siemens	NEM vertical	SGT5-8000H	4x m-sh 2:1 ~ 9760 MW	8	165 585
34 2019	De Warnes Bolivia	Siemens	NEM vertical	SGT-800	4x m-sh 2:1 ~ 618MW	8	86 522
35 2019	Del Sur Bolivia	Siemens	NEM vertical	SGT-800	4x m-sh 2:1 ~ 618MW	8	86 522
36 2019	Entre Rios Bolivia	Siemens	NEM vertical	SGT-800	3x m-sh 2:1 ~ 477MW	6	86 522
37	El Campesino Chile	Siemens	NEM horizontal	SGT5-8000H	s-sh ~ 610 MW	1	175 600
38 2020	South Bangkok Thailand	Siemens	NEM vertical	SGT5-8000H	2x s-sh ~ 1200 MW	2	175 600
39 2023	Punjab Pakistan	CMEC	NEM horizontal	SGT5-8000H	m-sh 2:1 ~ 1250 MW	2	175 600

No. Start of operation	Project Country	CCPP supplier	HRSR supplier HRSR type	Gas turbine	Configuration Power output	No. of HRSRs	HP steam p / bara T / °C
40	Martano Panama	Shanghai Electric	Siemens HTT vertical	SGT-800	m-sh 6:1 ~ 380 MW	6	94 540
41 2022	Keadby 2 UK	Siemens	Siemens HTT vertical	SGT5-9000HL	s-sh ~ 890 MW	1	170 600
42 2022	Herne 6 Germany	Siemens	Siemens HTT horizontal	SGT5-8000H	m-sh 1:1 ~ 650 MW	1	160 600
43 2022	Estrella del Mar 3 Dominican Rep.	Siemens	IST vertical	SGT-800	m-sh 2:1 ~ 145 MW	2	85 540
44 2023	Yeoju South Korea	SK E&C	Siemens HTT horizontal	SGT6-9000HL	m-sh 2:1 ~ 1000 MW	2	170 600
45 2023	Hynix South Korea	SK E&C	Siemens HTT horizontal	SGT6-9000HL	2 x m-sh 1:1 ~ 1100 MW	2	170 600
46	FES Germany	Siemens Gamesa	Siemens HTT vertical	- (no CCPP)	ETES	1	
47 2024	Ulsan South Korea	SK E&C	SE HTT horizontal	SGT6-9000HL	m-sh 2:1 ~ 1250 MW	2	175 600
48 2024	Sun Ba Phase 2 Taiwan	Siemens Energy (abbr. SE)	SE HTT horizontal	SGT6-9000HL	m-sh 2:1 ~ 1250 MW	2	170 600
49 2025	GNA 2 Brazil	Siemens	SE HTT horizontal	SGT6-9000HL	m-sh 3:1 ~ 1700 MW	3	170 600
50	Ostiglia Italy	Siemens Energy	SE HTT vertical	SGT5-9000HL	m-sh 1:1 ~ 900 MW	1	170 600
51 2025	Komotini Greece	Terna S.A.	SE HTT vertical	SGT5-9000HL	m-sh 1:1 ~ 900 MW	1	170 600
52	Grudziadz Poland	Siemens Energy	JCE horizontal	SGT5-4000F	s-sh ~ 580 MW	1	170 585
53	Rybnik Poland	Siemens Energy	NEM vertical	SGT5-9000HL	m-sh 1:1 ~ 900 MW	1	170 600
54	Adamow Poland	Siemens Energy	JCE horizontal	SGT5-4000F	s-sh ~ 580 MW	1	170 585
55	Monfalcone Italy	Siemens Energy	SE HTT Vertical	SGT5-9000HL	m-sh 1:1 ~ 900 MW	1	170 600
56	Grudziadz II Poland	Siemens Energy	JCE horizontal	SGT5-4000F	s-sh ~ 580 MW	1	170 585
57	Gdansk Poland	Siemens Energy	JCE Horizontal	SGT5-4000F	s-sh ~ 580 MW	1	170 585
58 2024	Kuo Kuang II Taiwan	Siemens Energy	NEM horizontal	SGT6-9000HL	m-sh 2:1 ~ 1100 MW	2	170 600
						Total:	139

Abbreviations

CCPP	combined cycle power plant
HRSG	heat recovery steam generator
HP	high pressure stage
p	pressure
T	temperature
s-sh	single-shaft
m-sh	multi-shaft
ETES	electric thermal energy storage

Published by

Siemens Energy Global GmbH & Co. KG
Gas Services
Siemenspromenade 9
91058 Erlangen
Germany

For more information, please contact
Email: jan.brueckner@siemens-energy.com

© Siemens Energy, 2025

Siemens Energy is a trademark licensed by Siemens AG.

Subject to changes and errors. The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract. All product designations may be trademarks or product names of Siemens Energy Global GmbH & Co. KG or other companies whose use by third parties for their own purposes could violate the rights of the owners.

For the U.S. published by

Siemens Energy, Inc.
Gas Services
4400 N Alafaya Trail
Orlando, FL 32826
USA