

WIKIPEDIA

List of solar thermal power stations

This is a list of the largest facilities generating electricity through the use of **solar thermal power**, specifically concentrated solar power.

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The PS10 solar thermal power station.

Operational

Operational solar thermal power stations (of at least 50 MW capacity)

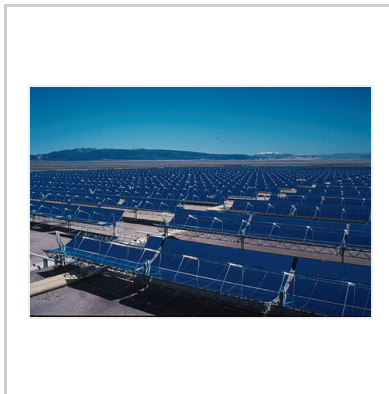
Electrical capacity (MW)	Name	Country	Location	Coordinates	Technology type	Storage hours	Notes and references
510	Noor / Ouarzazate Solar Power Station	 Morocco	Ghassate (Ouarzazate province)	30°59′40″N 6°51′48″W﻿ / ﻿30.99444°N 6.86333°W﻿ / 30.99444; -6.86333	Parabolic trough and solar power tower (Phase 3)	3 / 7 / 7.5	160 MW Phase 1 with 3 hours heat storage. ^{[1][2]} 200 MW phase 2 with 7 hours heat storage is online from January 2018. ^{[3][4]} 150 MW (Phase 3) with 7.5 hours storage is online from November 2018 ^{[5][6]}
392	Ivanpah Solar Power Facility	 US	San Bernardino County, California	35°34′N 115°28′W﻿ / ﻿35.56667°N 115.46667°W﻿ / 35.56667; -115.46667	Solar power tower		Completed on February 13, 2014 ^{[7][8][9]}
310	Solar Energy Generating Systems (SEGS)	 US	Mojave Desert, California	35°01′54″N 117°20′53″W﻿ / ﻿35.03167°N 117.34806°W﻿ / 35.03167; -117.34806	Parabolic trough		Collection of 9 units 1984-1990 ^{[10][11][12][13][14][15][16][17][18]} Originally 354 MW. First two units (44 MW out of total 354 MW) were decommissioned after 30 years and replaced by solar PV.
280	Mojave Solar Project	 US	Barstow, California	35°00′40″N 117°19′30″W﻿ / ﻿35.01111°N 117.32500°W﻿ / 35.01111; -117.32500	Parabolic trough		Completed December 2014. Gross capacity of 280 MW corresponds to net capacity of 250 MW ^{[19][20][21]}
280	Solana Generating Station	 US	Gila Bend, Arizona	32°55′N 112°58′W﻿ / ﻿32.91667°N 112.96667°W﻿ / 32.91667; -112.96667	Parabolic trough	6	Completed in October 2013, with 6 hours thermal energy storage ^{[22][23]}
280	Genesis Solar Energy Project	 US	Blythe, California	33°38′37.68″N 114°59′16.8″W﻿ / ﻿33.6438°N 114.988°W﻿ / 33.6438; -114.988	Parabolic trough		Online April 24, 2014 ^{[24][25][26]}
200	Solaben Solar Power Station ^[27]	 Spain	Logrosán	39°13′29″N 5°23′26″W﻿ / ﻿39.22472°N 5.39056°W﻿ / 39.22472; -5.39056	Parabolic trough		Solaben 3 completed June 2012 ^[28] Solaben 2 completed October 2012 ^[28] Solaben 1 and 6 completed September 2013 ^[29]
150	Solnova Solar Power Station	 Spain	Sanlúcar la Mayor	37°25′00″N 06°17′20″W﻿ / ﻿37.41667°N 6.28889°W﻿ / 37.41667; -6.28889	Parabolic trough		Solnova 1 completed May 2010 Solnova 3 completed May 2010 Solnova 4 completed August 2010 ^{[30][31][32][33][34]}
150	Andasol solar power station	 Spain	Guadix	37°13′42.70″N 3°4′6.73″W﻿ / ﻿37.22825°N 3.06854°W﻿ / 37.22825; -3.06854	Parabolic trough	7.5	Completed: Andasol 1 (2008), Andasol 2 (2009), Andasol 3 (2011). Each equipped with a 7.5 hour thermal energy storage. ^{[35][36]}
150	Extresol Solar Power Station	 Spain	Torre de Miguel Sesmero	38°39′N 6°44′W﻿ / ﻿38.65°N 6.73333°W﻿ / 38.65; -6.73333	Parabolic trough	7.5	Completed: Extresol 1 and 2 (2010), Extresol 3 (2012). Each equipped with a 7.5-hour thermal energy storage. ^{[28][37][38]}
125	Crescent Dunes Solar Energy	 US	Nye County, Nevada	38°14′N 117°22′W﻿ / ﻿38.23333°N 117.36667°W﻿ / 38.23333; -117.36667	Solar power tower	10	with 10h heat storage; commercial operation began September 2015 ^{[39][40]}

Electrical capacity (MW)	Name	Country	Location	Coordinates	Technology type	Storage hours	Notes and references
	Project						
125	Dhursar	 India	Dhursar, Jaisalmer district	26°47′N 72°00′E﻿ / ﻿26.783°N 72.000°E﻿ / 26.783; 72.000	Fresnel reflector		Completed November 2014, referred as 125 MW is some sources ^[41] ^[42] ^[43] ^[44]
121	Ashalim Power Station (Negev Energy)	 Israel	Ashalim	30°57′N 34°42′E﻿ / ﻿30.950°N 34.700°E﻿ / 30.950; 34.700	Parabolic trough	4.5	4.5h heat storage. Completed August 2019 and located in Negev desert ^[45]
121	Megalim Power Station (Negev Energy)	 Israel	Ashalim	30°56′N 34°43′E﻿ / ﻿30.933°N 34.717°E﻿ / 30.933; 34.717	Solar power tower		Completed April 2019 and located in Negev desert ^[46] ^[47] ^[48]
100	Kathu Solar Park	 South Africa	Northern Cape	27°31′59.67″S 23°8′10.56″E﻿ / ﻿27.533361°S 23.136556°E﻿ / -27.533361; 23.136556	Parabolic trough	4.5	completed February 2018, With 4.5h heat storage ^[49] ^[50] ^[51] ^[52] ^[53]
100	KaXu Solar One	 South Africa	Pofadder, Northern Cape	28°53′40.56″S 19°35′53.52″E﻿ / ﻿28.894667°S 19.598222°E﻿ / -28.894667; 19.598222	Parabolic trough	2.5	with 2.5h heat storage ^[54] ^[55] ^[56]
100	Xina Solar One	 South Africa	Pofadder, Northern Cape	28°53′40.56″S 19°35′53.52″E﻿ / ﻿28.894667°S 19.598222°E﻿ / -28.894667; 19.598222	Parabolic trough	5.5	Commissioned in September 2017 with 5.5h heat storage ^[57]
100	Manchasol Power Station	 Spain	Alcázar de San Juan	39°11′N 3°18′W﻿ / ﻿39.183°N 3.300°W﻿ / 39.183; -3.300	Parabolic trough	7.5	Manchasol 1 and 2 completed in 2011, each with 7.5h heat storage ^[28]
100	Valle Solar Power Station	 Spain	San José del Valle	36°39′N 5°50′W﻿ / ﻿36.650°N 5.833°W﻿ / 36.650; -5.833	Parabolic trough	7.5	Completed December 2011, with 7.5h heat storage ^[28] ^[58]
100	Helioenergy Solar Power Station	 Spain	Écija	37°34′43″N 5°9′24″W﻿ / ﻿37.578611°N 5.156667°W﻿ / 37.578611; -5.156667	Parabolic trough		Helioenergy 1 completed September 2011 ^[59] ^[60] Helioenergy 2 completed January 2012 ^[28] ^[59] ^[60]
100	Aste Solar Power Station	 Spain	Alcázar de San Juan	39°10′22″N 3°15′58″W﻿ / ﻿39.172778°N 3.266111°W﻿ / 39.172778; -3.266111	Parabolic trough	8	Aste 1A Completed January 2012, with 8h heat storage ^[28] Aste 1B Completed January 2012, with 8h heat storage ^[28]
100	Solacor Solar Power Station	 Spain	El Carpio	37°54′54″N 4°30′9″W﻿ / ﻿37.915000°N 4.502500°W﻿ / 37.915000; -4.502500	Parabolic trough		Solacor 1 completed February 2012 ^[28] Solacor 2 completed March 2012 ^[28] ^[61]
100	Helios Solar Power Station	 Spain	Puerto Lápice	39°14′24″N 3°28′12″W﻿ / ﻿39.240000°N 3.470000°W﻿ / 39.240000; -3.470000	Parabolic trough		Helios 1 completed May 2012 ^[28] Helios 2 completed August 2012 ^[28]
100	Shams solar power station	 UAE	Abu Dhabi Madinat Zayed	23°34′N 53°42′E﻿ / ﻿23.567°N 53.700°E﻿ / 23.567; 53.700	Parabolic trough		Shams 1 completed March 2013 ^[62] ^[63]
100	Termosol Solar Power Station	 Spain	Navalvillar de Pela		Parabolic trough		Both Termosol 1 and 2 completed in 2013 ^[28]
100	Palma del Río I & II	 Spain	Palma del Río	37°38′42.56″N 5°15′29.32″W﻿ / ﻿37.645156°N 5.258172°W﻿ / 37.645156; -5.258172	Parabolic trough		Palma del Río 2 completed December 2010 ^[28] Palma del Río 1 completed July 2011 ^[28]

Electrical capacity (MW)	Name	Country	Location	Coordinates	Technology type	Storage hours	Notes and references
100	Ilanga 1	 South Africa	Northern Cape (Upington)	28°29′25.79″S 21°32′27.13″E﻿ / ﻿28.490278°S 21.540833°E﻿ / -28.490278; 21.540833	Parabolic trough	5	With 5h heat storage. Operational since 2018 ^[64]
100	Shouhang Dunhuang	 China	Dunhuang (Gansu Province)	40°5′33.11″N 94°39′55.56″E﻿ / ﻿40.09253°N 94.66543°E﻿ / 40.09253; 94.66543	Solar power tower	7.5	With 7.5h heat storage. Operational since end of December 2018 ^[65]
75	Martin Next Generation Solar Energy Center	 US	Indiantown, Florida	27°03′11″N 80°33′00″W﻿ / ﻿27.05306°N 80.55000°W﻿ / 27.05306; -80.55000	ISCC with parabolic trough		Completed December 2010 ^[66]
75	Nevada Solar One	 US	Boulder City, Nevada	35°48.0′N 114°58.6′W﻿ / ﻿35.800°N 114.975°W﻿ / 35.800; -114.975	Parabolic trough		Operational since 2007
50	Guzmán	 Spain	Palma del Río	37°38′N 5°15′W﻿ / ﻿37.633°N 5.250°W﻿ / 37.633; -5.250	Parabolic trough		Completed July 2012 ^[28]
50	Khi Solar One	 South Africa	Upington	28°33′0.36″S 21°5′5.28″E﻿ / ﻿28.55008°S 21.08111°E﻿ / -28.55008; 21.08111	Solar power tower	2	Completed Feb 2016 With 2h heat storage ^{[54][55]}
50	Bokpoort	 South Africa	Groblershoop	28°43′26.96″S 21°59′34.88″E﻿ / ﻿28.72419°S 21.99274°E﻿ / -28.72419; 21.99274	Parabolic trough	9	with 9h heat storage ^{[67][68]}
50	Puertollano Solar Thermal Power Plant	 Spain	Puertollano, Ciudad Real	38°39′N 3°58′W﻿ / ﻿38.650°N 3.967°W﻿ / 38.650; -3.967	Parabolic trough		Completed May 2009 ^[69]
50	Alvarado I	 Spain	Badajoz	38°49′37″N 06°49′34″W﻿ / ﻿38.82722°N 6.82611°W﻿ / 38.82722; -6.82611	Parabolic trough		Completed July 2009 ^{[70][71][72]}
50	La Florida	 Spain	Alvarado (Badajoz)		Parabolic trough		Completed July 2010 ^{[28][73]}
50	Arenales PS	 Spain	Morón de la Frontera (Seville)		Parabolic trough ^{[28][74][75]}		2013
50	Casablanca	 Spain	Talarrubias		Parabolic trough ^[28]		2013
50	Majadas de Tiétar	 Spain	Caceres	39°58′10″N 5°44′32″W﻿ / ﻿39.96944°N 5.74222°W﻿ / 39.96944; -5.74222	parabolic trough		Completed August 2010 ^{[28][76]}
50	La Dehesa	 Spain	La Garrovilla (Badajoz)	38°57′35″N 6°27′50″W﻿ / ﻿38.95972°N 6.46389°W﻿ / 38.95972; -6.46389	Parabolic trough		Completed November 2010 ^[28]
50	Lebrija-1	 Spain	Lebrija		Parabolic trough		Completed July 2011 ^{[28][77]}
50	Astexol 2	 Spain	Badajoz	38°48′42″N 7°3′36″W﻿ / ﻿38.81167°N 7.06000°W﻿ / 38.81167; -7.06000	Parabolic trough	7.5	Completed November 2011, with 7.5h thermal energy storage ^{[28][74]}
50	Morón	 Spain	Morón de la Frontera	37°7′11.24″N 5°33′50.45″W﻿ / ﻿37.11973°N 5.56429°W﻿ / 37.11973; -5.56429	Parabolic trough		Completed May 2012 ^[28]
50	La Africana	 Spain	Posada		Parabolic trough	7.5	Completed July 2012, with 7.5h thermal energy storage ^[28]
50	Olivenza 1	 Spain	Olivenza	38°45′18.73″N 7°8′40.42″W﻿ / ﻿38.75508°N 7.14484°W﻿ / 38.75508; -7.14484	Parabolic trough		Completed July 2012 ^[28]
50	Orellana	 Spain	Orellana la Vieja	39°1′17.6″N 5°31′57.4″W﻿ / ﻿39.02156°N 5.53233°W﻿ / 39.02156; -5.53233	Parabolic trough		Completed August 2012 ^[28]
50	Godawari Green Energy Limited	 India	Nokh Village,Rajasthan	27°36′01″N 72°13′25″E﻿ / ﻿27.60028°N 72.22361°E﻿ / 27.60028; 72.22361	Parabolic trough		2013 ^{[78][79][80]}

Electrical capacity (MW)	Name	Country	Location	Coordinates	Technology type	Storage hours	Notes and references
50	Enerstar Villena Power Plant	 Spain	Villena	38°43′41.51″N 0°55′18.23″W﻿ / ﻿38.728056°N 0.920278°W﻿ / 38.728056; -0.920278﻿ (38.728056; -0.920278)	Parabolic trough		Completed 2013 ^[28] ^[81]
50	Megha Solar Plant	 India	Anantapur	14°56′47″N 77°41′15″E﻿ / ﻿14.946389°N 77.687500°E﻿ / 14.946389; 77.687500﻿ (14.946389; 77.687500)	Parabolic trough		Completed 2014 ^[82] ^[83]
50	Delingha Solar Plant	 China	Delingha	37°23′N 97°23′E﻿ / ﻿37.3833°N 97.3833°E﻿ / 37.3833; 97.3833﻿ (37.3833; 97.3833)	Parabolic trough	9	Completed July 2018 with 9 hours of thermal energy storage ^[84]
50	Supcon Solar Delingha	 China	Delingha	37°23′N 97°23′E﻿ / ﻿37.3833°N 97.3833°E﻿ / 37.3833; 97.3833﻿ (37.3833; 97.3833)	Solar power tower	7	Completed December 2018 ^[85] ^[86]
50	Shagaya CSP	 Kuwait	Shagaya	29°13′41″N 47°03′45″E﻿ / ﻿29.228056°N 47.062500°E﻿ / 29.228056; 47.062500﻿ (29.228056; 47.062500)	Parabolic trough	10	Commercial operation started in February 2019, 10 hours thermal storage ^[87] ^[88]
50	Waad Al Shamal ISCC Plant	 Saudi Arabia	Waad Al Shamal	31°39′37″N 38°51′29″E﻿ / ﻿31.660278°N 38.857778°E﻿ / 31.660278; 38.857778﻿ (31.660278; 38.857778)	ISCC with parabolic trough		Commercial operation started in 2018, 1,390 MW plant with 50 MW solar ^[89]
50	Qinghai Gonghe CSP	 China	Gonghe, Qinghai Province		Solar power tower	6	With 6 h heat storage. ^[86] ^[90]
50	Luneng Haixi CSP	 China	Haixi Zhou, Qinghai Sheng		Solar power tower	12	^[86] ^[91]

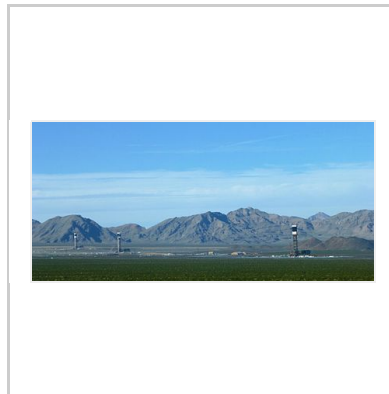
Solar thermal power stations



Part of the 354 MW SEGS solar complex in San Bernardino, California, United States.



The PS10 and PS20 solar power plant near Seville, in Andalusia, Spain.



The Ivanpah solar project in San Bernardino, California, United States.



The Andasol Solar Power Station, Spain, uses a molten salt thermal energy storage to generate electricity, even when the sun isn't shining.

Parts of the Solnova Solar Power Station PS10 and PS20 solar power stations can be seen in the background.










Under construction

Solar thermal power stations under construction (of at least 50 MW capacity)

Electrical capacity (MW)	Name	Country	Location	Co-ordinates	Expected completion	Technology	Notes
700	Mohammed bin Rashid Al Maktoum Solar Park Phase IV	 United Arab Emirates	Dubai	24.7547°N 55.365°E	2020	Parabolic trough solar tower	600 MW parabolic trough and 100 solar tower, with 15h heat storage ^[92] ^[93] ^[94]
200	Golmud CSP	 China	Golmud, Qinghai province			Power tower	^[86]
110	Cerro Dominador Solar Thermal Plant (Atacama 1)	 Chile	María Elena, Antofagasta		2019	Solar power tower	^[95]
100	Urat Middle Banner CSP	 China	Urat Middle Banner, Inner Mongolia			Parabolic trough	^[86] ^[96]
50	Erdos Solar Power Plant	 China	Hanggin Banner			Parabolic trough	^[97]
50	Dacheng Dunhuang CSP	 China	Dunhuang, Gansu Province			Fresnel reflector	^[86]
50	Gansu Akesai CSP	 China	Akesai, Gansu Province			Parabolic trough	^[86]
50	Hami CSP	 China	Hami, Xinjiang Autonomous Region			Power tower	^[86]
50	Rayspower Yumen CSP	 China	Yumen, Gansu Province			Parabolic trough	^[86]
50	Yumen CSP	 China	Yumen, Gansu Province		2019	Beam down tower	9h storage ^[98]

Announced

Solar thermal power stations announced

Electrical capacity (MW)	Name	Country	Location	Coordinates	Technology	Notes
230	Noor Midelt II	 Morocco	Morocco	32°40′51″N 04°43′59″W		[99]
200	Noor Midelt I	 Morocco	Morocco	32°40′51″N 04°43′59″W	Hybrid solar power with combination of 600 MW solar PV and 200 MW solar thermal with 5h heat storage	[100][101]
450	Tamarugal Solar Project	 Chile	Atacama Desert, Chile		Three solar power towers with 13h heat storage	[102]
390	Likana Solar Project	 Chile	Antofagasta		Three solar power towers with 13h heat storage ^[103]	
260	Copiapó Solar Project	 Chile	Atacama Desert, Chile		Solar power tower PV integrated. With 14h heat storage	[104]
100	Redstone Solar Thermal Power	 South Africa	Northern Cape	28°17′53″S 23°21′56″E	Solar power tower with 12h heat storage	[105][106][107]
100	Solnova 2, 4–5	 Spain	Sevilla	37°25′00″N 06°17′20″W	Parabolic trough with heat storage	[108]
100	CAP SunEdison	 Chile	Atacama Desert, Chile			[109]
100	Gulang CSP	 China	Wuwei, Gansu Province		Parabolic trough	[86][96]
100	Golden Tower CSP	 China	Jinta, Gansu Province		Power tower	[86]
72	Mashhad solar-thermal power station	 Iran	Mashhad, Iran		Parabolic dish with tracer system	[110]
64	Chabei CSP	 China	Chabei, Hebei Province		Parabolic trough	[86]
60	Al-Abdaliya	 Kuwait	??		Parabolic trough	[111]
50	AZ 20	 Spain	Sevilla		Solar power tower	[108][86]
50	Shangyi CSP	 China	Shangyi, Hebei Province		Power tower	[86]
50	Zhangjiakou CSP	 China	Zhangbei, Hebei Province		Fresnel reflector	[86]

Cancelled

Solar thermal power stations cancelled









Electrical capacity (MW)	Name	Country	Location	Coordinates	Technology	Notes
1,600	Sandstone Solar Energy Project	 US	Nye County, Nevada	37°54′00″N 116°42′00″W﻿ / ﻿	solar power tower	8 units with 10h heat storage ^[112]
1,000	Blythe Solar Power Project	 US	Blythe, California		Parabolic trough	4 units, converted to 485 MW PV ^[113]
850	Stirling Energy Systems Solar One Project	 US	San Bernardino County, California		Dish Stirling	converted to 618 MW PV, license terminated 27 August 2013 ^[114]
750	Stirling Energy Systems Solar Two Project	 US	Imperial County, California		Dish Stirling	converted to 594 MW PV ^[115]
500	Palen Solar Power Project	 US	Riverside County, California		Parabolic trough	2 units, certification expired 15 December 2015 ^[116]
250	Ridgecrest Solar Power Project	 US	Kern County, California		Parabolic trough	2 units, license terminated 22 April 2014 ^[117]
160	Luz SEGS XI-XII Project	 US	San Bernardino County, California		Parabolic trough	license expired 22 September 1989 ^[118]
150	Aurora Solar Thermal Power Project	 Australia	Port Augusta, South Australia	32.2°S 137.6°E﻿ / ﻿	solar power tower	^[119]
100	El Rebozo 2+3	 Spain	La Puebla del Rio (Seville)			Parabolic trough ^{[120][121]}
100	SCE Solar 100	 US	Johnson Valley, California		Solar power tower	license expired 1983 ^[122]
100	Diwakar	 India	Askandra		Parabolic trough	2014, Parabolic trough with 3h heat storage ^[123]
100	KVK Energy Solar Project	 India	Askandra		Parabolic trough	2014, Parabolic trough with 4h heat storage ^[124]

Decommissioned

- Eurelios pilot plant, a 1 MW, power tower design in Adrano, Sicily, operational 1981–1987^[125]
- Solar One pilot plant, operational 1982–1986; converted into Solar Two, operational 1995–1999; site demolished 2009 – USA California, 10 MW, power tower design
- SES-5 – USSR, 5 MW, power tower design, water / Steam, service period 1985–1989^[126]
- Maricopa Solar – USA Peoria, Arizona, 1.5 MW dish stirling SES / Tessera Solar's first commercial-scale Dish Stirling power plant. Completed January 2010,^[127] decommissioned September 2011 and sold to CondiSys Solar Technology of China on April 2012.^{[128][129]}

Largest plants by technology

Largest operational Solar Thermal Power Stations by technology

Technology type		Capacity MW	Name	Country	Location	Coordinates	Notes and references
Solar power tower	without thermal storage	392	Ivanpah Solar Power Facility	 US	San Bernardino County, California	35°34′N 115°28′W	Completed on February 13, 2014 ^{[7][8][9]} The station uses natural gas as supplementary fuel.
	with thermal storage	150	Ouarzazate Solar Power Station	 Morocco	Ghassate (Ouarzazate province)	30°59′40″N 6°51′48″W	
Parabolic trough	without thermal storage	310	Solar Energy Generating Systems (SEGS)	 US	Mojave Desert, California	35°01′54″N 117°20′53″W	Collection of 9 units ^{[10][11][12][13][14][15][16][17][18]} The station has gas firing facility to run the units during night time.
	with thermal storage	360	Ouarzazate Solar Power Station	 Morocco	Ghassate (Ouarzazate province)	30°59′40″N 6°51′48″W	
Beam-down CSP		50	Yumen CSP	 China	Yumen, Gansu Province		9h storage ^[130]
ISCC with parabolic trough		75	Martin Next Generation Solar Energy Center	 US	Indiantown, Florida	27°03′11″N 80°33′00″W	Completed December 2010 ^[66] Basically combined cycle power plant running on natural gas. Solar energy is supplemented to reduce the natural gas consumption for the same station output.
Fresnel reflector without thermal storage		100	Dhursar	 India	Dhursar, Jaisalmer district	26°47′N 72°00′E	Completed November 2014, referred as 125 MW is some sources ^{[41][42][43][44]}
Brayton cycle CSP		0.4	Ouarzazate Solar Power Station	 Morocco	Ghassate (Ouarzazate province)	30°59′40″N 6°51′48″W	10h thermal storage. Capacity expandable by adding any number of modules. Can also provide waste heat/ thermal energy for process steam production or HVAC consumption. ^{[131][132]} Commercial scale plant under construction to be commissioned by early 2020 ^[133]
Dish Stirling							No utility scale installations currently operational, 1.5MW Maricopa Solar was largest

See also

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- Solar thermal energy
- Solar Turbine Plants

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Further reading

- *Clean Tech Nation: How the U.S. Can Lead in the New Global Economy* (2012) by Ron Pernick and Clint Wilder
- *Deploying Renewables 2011* (2011) by the International Energy Agency
- *Reinventing Fire: Bold Business Solutions for the New Energy Era* (2011) by Amory Lovins
- *Renewable Energy Sources and Climate Change Mitigation* (2011) by the IPCC
- *Solar Energy Perspectives* (2011) by the International Energy Agency

External links

- CSP World (<http://www.cspworld.org/>)
 - CSP plants and projects plotted on Google Earth (http://www.trec-uk.org.uk/resources.htm#CSP_GE)
 - National Renewable Energy Laboratories list of US Solar Trough Plants (https://web.archive.org/web/20100406060955/http://www.nrel.gov/csp/troughnet/power_plant_data.html)
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