

table

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	CSP-Power stations global summary															
2	Only > 5 MW															
3	source: http://www.nrel.gov/csp/solarpaces/															
4																
5	Name	Country	peak capacity MW	type	start construction	start operation	cooling	storage time (hours)	contract PPA price (Power Purchase Agreement)	currency		investment (M\$)	investment/MW (M€)	air:	wet:	
6																
7																
8	In Operation (end 2018)															
9																
10	Alborg Brionderslev	Denmark	16,6	trough		2016	wet	0								16,6
11	Andasol 1	Spain	50	trough		2008	wet	7,5	27	€cent/kWh						50
12	Andasol 2	Spain	50	trough		2009	wet	7,5	27	€cent/kWh						50
13	Andasol 3	Spain	50	trough		2011	wet	7,5								50
14	Arcosol50	Spain	50	trough		2011	wet	7,5								50
15	Arenaales	Spain	50	trough		2013	wet	7,5								50
16	Astre 1B	Spain	50	trough		2012	wet	8	27	€cent/kWh						50
17	Astre 1A	Spain	50	trough		2012	wet	8	27	€cent/kWh						50
18	Astexol II	Spain	50	trough		2012	wet	8	27	€cent/kWh						50
19	Bokpoort	South Africa	50	trough		2016	wet	9,3		€cent/kWh	565			11,3		50
20	Borges Termosolar	Spain	22,5	trough		2012	wet	0	27	€cent/kWh	200	153		8,9		22,5
21	Casablanca	Spain	50	trough		2013	wet	7,5	27	€cent/kWh						50
22	Crescent Dunes	USA	110	tower		2015	hybrid	10	13,5	\$cnt/kWh					110	
23	Delingha 50MW	China	50	trough		2018		9	1,15	Yuan.kWh						50
24	Dhursar	India	125	fresnel		2014	wet	0	11,97	INR/kWh						125
25	Enerstar	Spain	50	trough		2013	wet	0	27	€cent/kWh						50
26	Extresol 1	Spain	50	trough		2010	wet	7,5	27	€cent/kWh						50
27	Extresol 2	Spain	50	trough		2010	wet	7,5	27	€cent/kWh						50
28	Extresol 3	Spain	50	trough		2012	wet	7,5	27	€cent/kWh						50
29	Gemasolar	Spain	19,9	tower		2011	wet	15								19,9
30	Genesis solar	USA	250	trough		2014	air	0							250	
31	Godawari solar project	India	50	trough		2013	wet	0	12,2	Rs/kWh						50
32	Gusman	Spain	50	trough		2012	wet	0	27	€cent/kWh						50
33	Helioenergy 1	Spain	50	trough		2011	wet	0	27	€cent/kWh						50
34	Helioenergy 2	Spain	50	trough		2012	wet	0	27	€cent/kWh						50
35	Helios 1	Spain	50	trough		2012	wet	0	27	€cent/kWh						50
36	Helios 2	Spain	50	trough		2012	wet	0	27	€cent/kWh						50
37	IbersolCiudad Real	Spain	50	trough		2009	wet	0								50
38	ISCC Ain Beni Mathar	Morocco	20	trough		2010	wet	0								20
39	ISCC Hassi Rmel	Algeria	20	trough		2011	air	0								20
40	ISCC Kuraymat	Egypt	20	trough		2011	wet	0								20
41	Ivanpah	USA	377	tower		2014	air	0			2200			5,8	377	
42	Kathu solar park	South Africa	100	trough		2018		4,5								
43	KaXu Solar One	South Africa	100	trough		2015	air	2,5			860			8,6	100	
44	Khi Solar One	South Africa	50	tower		2016	air	2							50	
45	La Africana	Spain	50	trough		2012	wet	7,5	27	€cent/kWh		0				50
46	La Dehesa	Spain	50	trough		2008	wet	7,5								50
47	La Florida	Spain	50	trough		2010	wet	7,5								50
48	La Risca	Spain	50	trough		2009	wet	0	27	€cent/kWh						50
49	Lebrija 1	Spain	50	trough		2011	wet	0	27	€cent/kWh						50
50	Majadas 1	Spain	50	trough		2010	wet	0	27	€cent/kWh						50
51	Manchasol 1	Spain	50	trough		2011	wet	7,5	27	€cent/kWh						50
52	Manchasol 2	Spain	50	trough		2011	wet	7,5	27	€cent/kWh						50

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53	Martin Next Generation Solar Energy Center	USA	75	trough		2010	wet	0				476		6,3		75
54	Megha Solar Plant	India	50	trough		2014	wet	0	11,31	Rs/kWh						50
55	Mojave Solar Project	USA	250	trough		2014	wet	0				1600		6,4		250
56	Moron	Spain	50	trough		2012	wet	0	27	€cent/kWh						50
57	Nevada Solar One	USA	72	trough		2007	wet	0,5				266		3,7		72
58	NOOR 1	Morocco	146	trough		2015	wet	3	1,62	Dirham/kWh		1042		7,1		146
59	NOOR 2	Morocco	185	trough		2015		7	1,36	Dirham/kWh		1042		5,6		
60	OlivenSouth Africa 1	Spain	50	trough		2012	wet	0	27	€cent/kWh						50
61	Orellana	Spain	50	trough		2012	wet	0	27	#VERW!						50
62	Palma del Rio 1	Spain	50	trough		2011	wet	0	27	#VERW!						50
63	Palma del Rio 2	Spain	50	trough		2010	wet	0	27	#VERW!						50
64	Planta Solar 10	Spain	11	tower		2007	wet	1	27,12	#VERW!						11
65	Planta Solar 20	Spain	11	tower		2009	wet	1	27,12	#VERW!						11
66	Puerto Errado 2	Spain	30	fresnel		2012	air	0,5	26,87	#VERW!					30	
67	Shams I	UAE	100	trough		2013	air	0				600		6,0	100	
68	Solaben 1	Spain	50	trough		2013	wet	0	27	€cent/kWh						50
69	Solaben 2	Spain	50	trough		2012	wet	0	27	€cent/kWh						50
70	Solaben 3	Spain	50	trough		2012	wet	0	27	€cent/kWh						50
71	Solaben 6	Spain	50	trough		2013	wet	0	27	€cent/kWh						50
72	Solacor 1	Spain	50	trough		2012	wet	0	27	€cent/kWh						50
73	Solacor 2	Spain	50	trough		2012	wet	0	27	€cent/kWh						50
74	Solana	USA	250	trough		2013	wet	6				2000		8,0		250
75	SEGS 3	USA	30	trough		1985										
76	SEGS 4	USA	30	trough		1989										
77	SEGS 5	USA	30	trough		1989										
78	SEGS 6	USA	30	trough		1989										
79	SEGS 7	USA	30	trough		1989										
80	SEGS 8	USA	80	trough		1989										
81	SEGS 9	USA	80	trough		1990										
82	Solnova 1	Spain	50	trough		2009	wet	0	27,12	€cent/kWh						50
83	Solnova 3	Spain	50	trough		2009	wet	0	27,12	€cent/kWh						50
84	Solnova 4	Spain	50	trough		2009	wet	0	27,12	€cent/kWh						50
85	SunCan Dunhuang 10MW Phase 1	China	10	tower		2016		15								
86	Termesol 50	Spain	50	trough		2011	wet	7,5								50
87	Termosol 1	Spain	50	trough		2013	wet	9	27	€cent/kWh						50
88	Termosol 2	Spain	50	trough		2013	wet	9	27	€cent/kWh						50
89	Thai Solae Energy 1	Thailand	5	trough		2012	wet	0	11,5	Baht/kWh						5
90																
91	SUM:		5086									10851		6,7	1037	3444
92																
93	Under Construction (end 2018)															
94																
95	Abhijeet Solar Project	India	50	trough		2015	wet	0	12,24	Rs/kWh						50
96	Agua Prieta II	Mexico	12	trough		2014		0								
97	Ashalim Plot B	Israel	121	tower		2017		0	0,79	NIS/kWh						
98	Atacama 1	Chile	110	tower		2018		17,5	114	\$/Mwh						
99	Dadri ISCC Plant	India	14	fresnel		2016	2017?									
100	Diwakar	India	100	trough		2013	?	wet	4	Rs/kWh						100
101	eLLO Solar Thermal Project	France	9	fresnel		2016	2018	air	4						9	
102	Golmud	China	200	tower		2015	2018		15							
103	Gujarat Solar One	India	25	trough		2014	?	wet	9							25
104	Hami 50 MW CSP Project	China	50	tower					8							
105	ISCC Duba 1	Saudi Arabia	43	trough		2016	2017?									

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106	KVK Energy Solar Project	India	100	trough	2013	?	wet	4	11,2	Rs/kWh						100
107	Noor 3	Morocco	134	tower	2015	2017?		7	1,42	MAD/kWh						
108	Rayspower Yumen 50MW	China	50	trough	2016			7	1,15	RMB/kWh						
109	SunCan Dunhuang 100MW Phase II	China	100	tower	2015			11								
110	Supcon Solar Project	China	50	tower	2010	?		6								
111	Urat Middle Banner 100MW	China	100	trough	2017	2018		4								
112	Waad Al Shamal ISCC Plant	Saudi Arabia	50	trough	2016?	2018?		0								
113	Xina Solar One	South Africa	100	trough	2015	2017?		5				880		8,8		
114																
115	SUM:		1418													9 275
116																
117	Projects Under Development															
118	Concentrating solar power (CSP) projects that are currently under development are listed below alphabetically by project name. These projects have signed agreements, but actual construction is still pending.															
119																
120	Ashalim	Israel	110	trough	2015	2018?		4,5	0,76	NIS/kWh						
121	Aurora Solar Energy Project	Australia	135	tower	2018		air	8	7,8	Aus\$/kWh						135
122	Chabei 64MW molten salt trough	China	64	trough				16								
123	CopiaPO	Chile	260	tower		2019?	air	14								260
124	Dacheng Dunhuang 50MW molten salt fresnel	China	50	fresnel				13								
125	Dewa CSO Tower project	UAE	100	tower	2018	2020?		15	7,3	\$/kWh	6.5	€/kWh				
126	Dewa CSP Trough project	UAE	600	trough	2018	2020?		10	7,3	\$/kWh						
127	Gansu Akesai 50MW Molten Salt Trough project	China	50	trough				15								
128	Golden Tower 100MW Molten Salt project	China	100	tower				8								
129	Gulang 100MW Thermal Oil Parabolic Trough project	China	100	trough				7								
130	Huanghe Qinghai Delingha 135 MW DSG Tower CSP Project	China	135	tower	2017		air	3,7	1,15	Yuan/kWh						135
131	Ilanga 1	South Africa	100	trough	2018	2020?		4,5								
132	Likana Solar Energy Project	Chile	390	tower	2018	2021?	air	13								390
133	Minos	Griekenland	52	tower		2020?	air	5	27,8	€/kWh						52
134	Qinghai Gonghe 50 MW CSP Plant	China	50	tower				6								
135	Redstone Solar Thermal Power Plant	South Africa	100	tower	2015	2018?	air	12	12,4	\$/kWh						100
136	Shagaya CSP Project	Kuwait	50	trough		2017?		10								
137	Shangyi 50MW DSG Tower CSP project	China	50	tower				4								
138	Tamarugal Solar Energy Project	Chile	450	tower	2018	2021?		13								
139	Urat 50MW Fresnel CSP project	China	50	fresnel				6								
140	Yumen 100MW Molten Salt Tower CSP project	China	100	tower				10								
141	Yumen 50MW Molten Salt Tower CSP project	China	50	tower				6								
142	Yumen 50MW Thermal Oil Trough CSP project	China	50	trough				7								
143	Zhangbei 50MW CSG Fresnel CSP project	China	50	fresnel				14								
144	Zhangjiakou 50MW CSG Fresnel project	China	50	fresnel				14								
145																
146	SUM:		3296													1072
147																

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