

Plans,bids,shut down of Coal Power Plants in Japan

05 December 2014

Research by Kiko Network

1.Operation and Construction Plans of Coal-Fired Thermal Power Plants in Japan

	Company	Unit name	Location	Status	Operation start	Capacity [MW]	Technology	notes
	Hibinkinada thermal power plant		1, Hibikimachi,Wakamatsu ward	Under EIA by the city	unknown	112.0		■EIA by the city https://www.city.kitakyushu.lg.jp/kankyoku/00600117.html
★	MAEDA CORPORATION		Northeast area of Japan	planning	unknown	100.0		■Mixed combustion of coal and biomass (20 Nov,2014 Kensetsu News) http://www.kensetsunews.com/?p=40041
	Oji materia co.	Fuji facory No1.	300 Hiragaki, Fuji city, Shizuoka prefecture	under construction ?	2015 March	40.0		■Press release by the company(1 Oct,2012) http://www.ojiholdings.co.jp/news/2012/121001.html ■capacity is around 40MW (18 Sep,2012Nikkei) http://www.nikkei.com/article/DGXNASGD1500Q_X10C12A9TJC000/
	Nippon Paper Industries Co., Ltd Mitsubishi Corporation Chubu Electric Power	Fuji Mill Suzukawa	4, Imai, Fuji city Shizuoka prefecture	Under Construction	2016	100.0		■Press release by Nippon Paper Industries Co., Ltd(7 Aug,2013) http://www.nipponpapergroup.com/news/year/2013/news130807000806.html
	Nakayama Nagoya	Nagoya No.2	Taketoyo town,Chita district,Aichi prefecture	planning	2016	110.0		■subsidiary company of Osaka Gas
	eREX new energy	Tosa plant	337-1,Hiana, Saiki city, Oita prefecture	planning	2016	50.0		■Press release by the company(7 Aug,2014) http://www.erec.co.jp/news/pdf/press04.pdf ■Fuel is palm shell for 90% and coal for 10%. (7 Aug,2014 Nikkei) http://www.nikkei.com/article/DGXLZO75344310X00C14A8TJ1000/
	SUMITOMO FORESTRY CO.,LTD. SUMITOMO JOINT ELECTRIC POWER CO.,LTD.		Monbetsu wharf area No.3,4 Shinkomachi, Monbetsu city, Hokkaido	planning ?	2016 Dec	50.0		■Press release by Sumitomo Forestry (22 Oct,2013) http://sfc.jp/information/news/2013/2013-10-22.html
	Osaki Cool Gen		Nakano, Osakikamijima, Toyota district, Hiroshima prefecture	under construction	2017 March	166.0	IGCC	■EIA http://www.meti.go.jp/policy/safety_security/industrial_safety/sangyo/electric/files/osaki/jyunbishinsa.pdf
	Kansai Electric Power Itochu Corporation		Near Sendai Port	planning	2017	112.0		■Joint investment by Kansai Electric Power and Itochu.(25 Sep,2014 Nikkei) http://www.nikkei.com/article/DGXLASDC2500A_V20C14A9EA1000/
	Nippon Paper Industries Co., Ltd	Ishinomaki Hibarino No.1	2-15-4 Hibarinocho,Ishinomaki city, Miyagi prefecture	planning	2017	149.0		■The Fuel is Woody biomass for 10% and coal for 90%. (15 April,2014 KAHOKU SHIMPO) http://www.kahoku.co.jp/tohokunews/201404/20140415_12008.html ■Environment Assessment unnecessary (judged by the Minister of Economy, Trade and Industry on 7 March,2014) http://www.kahoku.co.jp/tohokunews/201404/20140415_12008.html
	Orix	M.SETEK CO.,Ltd. Soma Factory plant	M.SETEK Soma Factory, 2-2-21 Koyo, Soma city, Fukushima prefecture	EIA by the prefecture done	2017	112.0		■EIA by the prefecture http://www.pref.fukushima.lg.jp/site/eia-zisshianken/eia-anken-jyourei-28.html ■Mixed combustion of coal & scrap materials (2 April,2014 Nikkei) http://www.nikkei.com/article/DGXNZO69241150S4A400C1EA2000/ ■Orix took over this project from Ishihara Engineering Partners Corporation. http://www.pref.fukushima.lg.jp/site/eia-zisshianken/
	Orix		2-7 Hinbikimachi, Wakamatsu ward, Kitakyushu city,Fukuoka prefecture	Under EIA by the City	2017	112.0		■EIA by the city https://www.city.kitakyushu.lg.jp/kankyoku/00600084.html ■Operarion will start from 2017 (2 April,2014 Nikkei) http://www.nikkei.com/article/DGXNZO69241150S4A400C1EA2000/

13	Soma kyodo jikahatsu kaihatsu godo corporation	Soma core industrial park	1-1-1,Koyo,Soma city, Fukushima prefecture	Under EIA by the prefecture	2017 Dec	112.0		<p>■ EIA by the prefecture http://www.pref.fukushima.lg.jp/site/eia-zisshianken/eia-anken-jyourei-30.html</p> <p>■ Construction will start at Aug 2015,Operation at Dec 2017.(27 May, 2014 FUKUSHIMA MINYU SHIMBUN) http://www.47news.jp/localnews/hukushima/2014/05/17_37.html</p>
14	Osaka Gas Marubeni		Kashima area in Ibaragi prefecture	planning	2017	100.0		<p>■ Join investment by Osaka Gas and Marubeni.(3 Oct,2014 Mainichi) http://mainichi.jp/select/news/20141003k0000e020176000c.html</p>
15	ABL Co.,Ltd.		24-6 Yoshima industrial park,Iwaki City, Fukushima prefecture	Under EIA by the prefecture	2018	112.0		<p>■ EIA by the prefecture http://www.pref.fukushima.lg.jp/site/eia-zisshianken/eia-anken-jyourei-29.html</p> <p>■ Construction will start at 2016, Operation at spring (29 May,2014 FUKUSHIMA MINYU SHIMBUN) 2018 http://www.47news.jp/localnews/hukushima/2014/05/post_20090529222408.html</p>
16	Chugoku Electric Power,Air Water Inc.		3-1,Kanebocho,Bouhu city,Yamaguchi prefecture	Under EIA by the prefecture	2018	100.0		<p>■ Joint investment by Chugoku Electric Power and Air water Inc.. (3 Sep,2014) http://www.energia.co.jp/press/14/p140903-1.html</p>
17	Nippon Paper Industries Co., Ltd		Akita city (in Akita factory)	planning	2018	110.0		<p>■ Tens of billions yen will be invested.(3 Oct,2014 Jiji Press) http://www.jiji.com/jc/zc?k=201410/2014100300417&q=eco</p>
18	Kyushu Electric Power Idemitsu Kosan Co.,Ltd. Tokyo Gas		Chiba?Ichihara?	planning	2020 at earliest	2,000.0		<p>■ Joint Investment by 3 companies. (30 Sep,2014 Yomiuri) http://www.yomiuri.co.jp/kyushu/news/20140930-OYS1T50029.html</p>
19	Tokyo Electric Power	Nakoso	Oshima 20, Sanukamachi, Iwaki city, Fukushima prefecture	under EIA	2020	540.0	IGCC	<p>■ Joint with JOBAN JOINT POWER CO.,LTD. Pressrelease by Tokyo Electric Company.(15 May,2014) http://www.tepco.co.jp/cc/press/2014/1236420_5851.html</p>
20	Tokyo Electric Power	Hirono	Futatsunuma 58, Shimokitaba, Hirono-machi, Futaba-gun, Fukushima prefecture	under EIA	2020	540.0	IGCC	<p>■ Press release by Tokyo Electric Power (15 May,2014) http://www.tepco.co.jp/cc/press/2014/1236420_5851.html</p>
21	Tokyo Electric Power J-Power	Yokosuka	11-1 Daikokucho, Tsurumi ward, Yokohama city, Kanagawa prefecture	planning	2020	1000.0		<p>■ Replacemement of the aged unit but no information on the plant that will be shut down.None of the units in Yokosuka plant are using coal. http://www.nikkei.com/article/DGXLASDZ2300U_T20C14A8MM8000/ (24 Aug,2014 Nikkei) http://www.sankei.com/economy/news/141010/ecn1410100012-n1.html (10 Oct,2014 Sankei)</p>
22	Hitachinaka Generation (Tokyo Electric Power and Chubu Electric Power)	Hitachinaka	768-23 Terunuma, Tokai-mura, Naka-gun, Ibaraki prefecture	under EIA	2020	650.0	USC	<p>■ Press release by Chubu Electric Power.(6 Dec,2013) https://www.chuden.co.jp/corporate/publicity/pub_release/press/3235592_6926.html</p>
23	Kashima Power (J-Power and NIPPON STEEL&SUMITOMO METAL CORPORATION)	Sumitomo Metals Kashima	3 Hikari, Kashima city, Ibaraki prefecture	under EIA	2020	650.0	USC	<p>■ Press release by both companies.(9 Dec,2013) http://www.jpowers.co.jp/news_release/pdf/news131209.pdf</p>
24	Tohoku Electric Power	Noshiro No.3	1-6 Omoriyama,Noshiro city,Akita prefecture	bidding	2020	600.0		<p>■ in house bid possible. Pressrelease by the company. (27March,2014) http://www.tohoku-epco.co.jp/news/normal/1187158_1049.html</p>
25	J-Power	Takehara New No. 1	2-1-1 Tadanouminagahama, Takehara city, Hiroshima prefecture	under construction	2020	600.0	USC	<p>■ EIA http://www.meti.go.jp/policy/safety_security/industrial_safety/sangyo/electric/files/takehara/junbi-shinsasyo.pdf</p>
26	Chugoku Electric Power, JFE Steel Corporation Tokyo Gas		Chiba city?	planning	around 2020	unknown		<p>■ Joint investment by the 3 companies,planning to bid for Tokyo Electric Power (27April, 2014 Nikkei) http://www.nikkei.com/article/DGXNZO7047760W4A420C1TJC000/</p>
27	Kyushu Electric Power Co., Ltd.	Matsuura No. 2	2091-1 Shirahamamen, Shisacho, Matsuura city, Nagasaki prefecture	bidding	2021	1000.0		<p>■ in house bid possible. Pressrelease by the company(27 March,2014) http://www.kyuden.co.jp/press_h140327-1.html</p>
28	J-Power	Takasago New No.1	6 Umei, Takasago city, Hyogo	under EIA	2021	600.0		<p>■ EIA http://www.jpowers.co.jp/news_release/pdf/news140724-2.pdf</p>

★

29	Chubu Electric Power	Taketoyo	1-1,Ryugu,Taketoyo town ,Chita, Aichi	planning	2021	1000.0	<ul style="list-style-type: none"> ■Pressrelease by the company (27 Nov,2014) http://www.chuden.co.jp/corporate/publicity/pub_release/press/3253399_19386.html ■Pressrelease by the company (28 Nov,2014) http://www.chuden.co.jp/corporate/publicity/pub_release/press/3254876_19386.html
30	KOBE STEEL, LTD.		2 Nadahama higashicho,Nada ward, Kobe city, Hyogo prefecture	bidding	2021	700.0	<ul style="list-style-type: none"> ■planning to bid for Kansai Electric Power.Pressrelease by the company.(25 April,2014) http://www.kobelco.co.jp/english/releases/2014/1189484_13891.html
31	KOBE STEEL, LTD.		2 Nadahama higashicho,Nada ward, Kobe city, Hyogo prefecture	bidding	2021	700.0	<ul style="list-style-type: none"> ■planning to bid for Kansai Electric Power.Pressrelease by the company.(25 April,2014) http://www.kobelco.co.jp/english/releases/2014/1189484_13891.html
32	J-Power UBE INDUSTRIES,LTD. Osaka Gas		Yamaguchi prefecture	planning	the early 2020s	600.0	<ul style="list-style-type: none"> ■Joint investment by the 3 companies,(17 Oct,2014 Nikkei) http://www.nikkei.com/article/DGXLASDZ15HK1_W4A011C1MM8000/
33	J-Power UBE INDUSTRIES,LTD. Osaka Gas		Yamaguchi prefecture	planning	after the early 2020s	600.0	<ul style="list-style-type: none"> ■Joint investment by the 3 companies,(17 Oct,2014 Nikkei) http://www.nikkei.com/article/DGXLASDZ15HK1_W4A011C1MM8000/
34	J-Power	Takasago New No2	6 Umei, Takasago city, Hyogo	under EIA	2027	600.0	<ul style="list-style-type: none"> ■EIA http://www.jpowers.co.jp/news_release/pdf/news140724-2.pdf
35	Chugoku Electric Power	Misumi No. 2	Misumicho Okami, Hamada city, Shimane prefecture	planning	After 2027	400.0	<ul style="list-style-type: none"> ■Electricity supply plan http://www.energia.co.jp/ir/irkeiei/gaiyou.html
						Total	14,527.0

Total

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2.Bidding

	Company	Bidding Conditions						Results				Links	
		Deadline of the bidding	Decision of successful bidder	capacity factor	supply period	supply start	Capacity [MW]	Number of Bidders (Total capacity)	type of industry	Capacity [MW]	Fuel		
★	1 Tohoku Electric Power	Closed (14 Nov.2014)	late Jan-2015	70~80%		June 2020-June 2022	600.0	1 (569MW)	Electricity(in house bidding)	569.0	coal	<ul style="list-style-type: none"> ■ In house bid with Noshiro No.3(No.24 on the table above) http://www.tohoku-epco.co.jp/jiyuka/nyusatu.htm ■ Result (Presrelease by the company 14 Nov.2014) http://www.tohoku-epco.co.jp/news/normal/1188477_1049.html 	
	2 Tokyo Electric Power	31-Mar-2015	June-2015	70~80%	15yrs (selectable between 5-15yrs)	April 2019-March 2024	6000.0					<ul style="list-style-type: none"> ■ Chugoku Electric Power,JFE Steel Corporation and Tokyo Gas likely to bid(No.26 on the table above) http://www.tepco.co.jp/kaikaku/pp/index-j.html 	
★	3 Chubu Electric Power	Closed(28 Nov, 2014)	Feb-2015	70~80%	15yrs (selectable between 10-30yrs)	April 2021-March 2023	1,000.0	1 (1000MW)	Electricity(in house bidding)	1,000.0	coal	<ul style="list-style-type: none"> ■ In house bidding. Taketoyo Unit No. 2, 3, 4 ,Whose fuel is heavy crude, will be replaced. (27 Nov, 2014) http://www.chuden.co.jp/corporate/publicity/pub_release/press/3253399_19386.html ■ Result Pressrelease by the company (28 Nov, 2014) ※Saying Operation will start at 2021 http://www.chuden.co.jp/corporate/publicity/pub_release/press/3254876_19386.html 	
★	4 Kansai Electric Power	Closed(28 Nov,2014)	mid Mar-2015	70%	15yrs (selectable between 10-30yrs)	April 2021-July 2023	1,500.0	1 (1221MW)	Steel	122.1	coal	<ul style="list-style-type: none"> ■ KOBE STEEL bided(No.30,31on the table above) (29 Nov,2014 Mainichi) http://mainichi.jp/select/news/20141129k000m020094000c.html ■ Result (Pressrelease by the company 28 Nov, 2014) http://www.kepco.co.jp/corporate/pr/2014/1128_1_j.html 	
★	5 Kyushu Electric Power	Closed(19 Nov,2014)	Feb-2015		15yrs (selectable between 10-30yrs)	by June 2021	1,000.0	2 (1240MW)	Electricity(in house bidding)	940.0	coal	<ul style="list-style-type: none"> ■ The Mainland Kyushu ■ In-house Bidding with Matsuura No.2(No.27 on the table above) http://www.kyuden.co.jp/pp_index#flow6 	
									manufacturing	300.0	coal	<ul style="list-style-type: none"> ■ Result (Pressrelease by the company 19 Nov,2014) http://www.kyuden.co.jp/press_h141119-1.html 	
Total							10,100.0						

※ There are overlaps between (1. Plannino) and (2. Bidding) as some power plants are planned as a response to bids. However, even if these bids are finalized, it is difficult to estimate to what degree these two statuses overlap, because the bidding electric companies would not necessarily sell all the electricity produced.
 ※ The bidding plans released by the companies are categorized as "thermal power generation", not limited to coal-fired power plant. However, on the table above, bids regarding non-coal power plants which are under planning for in-house bid are not included.

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3.Retirement Plan for Coal-Fired Power Plants in Japan

	Company	Unit name	Location	Operation start (Fuel change to coal)	Expected finish date	Capacity[MW]	Reason	Notes
1	J-Power	Takehara No. 1	2-1-1 Tadanouminagahama, Takehara city, Hiroshima prefecture	July 1967	2017	250.0	Shut down due to the construction of New No. 1	■EIA http://www.meti.go.jp/policy/safety_security/industrial_safety/sangyo/electric/files/takehara/junbi-shinsasyo.pdf
2	Hokuriku Electric Power Co.	Toyama New Port Coal No. 1	1 Horiesengoku, Imizu city, Toyama prefecture	Sep 1971 (Nov 1984)	2017	250.0	Replacement for LNG. Will not be renewed.	■New LNG plant will be 424.7MW,start from Nov.2018.Generation efficiency will be 59%. Construction cost will be 110 bn yen(≒11bn USD) (2014/10/2 The Denki Shimbun)
3	J-Power	Takehara No. 2	2-1-1 Tadanouminagahama, Takehara city, Hiroshima prefecture	June 1974 (June 1995)	2018	350.0	Shut down due to the construction of New No. 1	■EIA http://www.meti.go.jp/policy/safety_security/industrial_safety/sangyo/electric/files/takehara/junbi-shinsasyo.pdf
4	J-Power	Takasago No.1	6-4-1 Umei,Takasago city, Hyogo prefecture	1968	2032?	250.0	Shut down due to the construction of New No. 1	■EIA http://www.jppower.co.jp/news_release/pdf/news140724-2.pdf
5	J-Power	Takasago No.2	6-4-1 Umei,Takasago city, Hyogo prefecture	1969	2032?	250.0	Shut down due to the construction of New No. 2	■EIA http://www.jppower.co.jp/news_release/pdf/news140724-2.pdf
						Total	1,350.0	