

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

06 October 2015

Research by Kiko Network

★:Updated

This list is updated monthly.Newest one is on website "DON'T GO BACK TO THE COAL!"data page(<http://sekitan.jp/en/data/>).

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

	Company	Unit name		Location	Coal conversion	Status	Operation start	Capacity [MW]	Fuel type
1	Suzukawa Energy Center (Nippon Paper Industries Co., Ltd Mitsubishi Corporation Chubu Electric Power)	Suzukawa Energy Center		4-178-5, Imai, Fuji city Shizuoka prefecture		Under Construction	2016 May	100.0	coal source:Pressrelease by Nippon Paper industries (7 August 2013)
2	Nakayama Nagoya	Nagoya No.2		Taketoyo town,Chita district,Aichi prefecture		Under Construction	2016	110.0	coal,woody biomass (mixing ration of woody pellet etc for 30% by calorific value),kerosene(as combustion aid) source:Pressrelease by Osaka Gas(13 March 2014)
3	Osaki Cool Gen			Nakano, Osakikamijima, Toyota district, Hiroshima prefecture		under construction	2017 March	166.0	coal source:Osaki cool gen website
4	Mizushima Energy Center (Kanden Energy Solution, Mitsubishi Corporation)			Ushio-dori, Kurashiki city, Okayama prefecture (in the area of Mitsubishi chemical Mizushima office)		planning	2017 summer	110.0	coal sorce: Nikkei (16 April 2015)
5	Sendai Power Station (Kanden Energy Solution, Itochu Enex)			Near Sendai Port		planning	2017 Autumn	112.0	coal source:Nikkei(25 Sep 2014)
6	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	coal,biomass. Biomass for 20,000t/year,3~5%of the total fuel. sorce:Document of EIA Examination board
7	Orix			2-7 Hinbikimachi, Wakamatsu ward, Kitakyushu city,Fukuoka prefecture		Under EIA by the City	2017	112.0	coal, woody biomass. considering powdered coal boiler.biomass ratio 40% at maximum by weight, 30% by calorific value.source: EIA
8	Osaka Gas, Marubeni			Kashima area in Ibaragi prefecture		planning	2017~18	100.0	coal source : Sankei (3 Oct 2014)

9	Meinan Kyodo Energy (Meiko-trans,Seika corporation, Japan Energy Partners)			Chita city, Aichi prefecture (Meinan Industrial complex)		planning	2018 January	31.2	coal source:pressrelease by Meiko-trans(11 May 2015)
10	Nippon Paper Industries Ishinomaki Energy Center(Nippon Paper Industries Co., Ltd and Mitsubishi Corporation)	Ishinomaki Hibarino No.1		2-15-4 Hibarinocho,Ishinomaki city, Miyagi prefecture		planning	2018 March	149.0	coal (90%),woody biomass (10%) source : KAHOKU SHINPO(15 April 2014)
11	Asahi Kasei Chemicals Co.			Nobeoka city, Miyazaki prefecture		planning	2018 March	60.0	coal
12	ABL Co.,Ltd.			24-6 Yoshima industrial park,Iwaki City, Fukushima prefecture		Under EIA by the prefecture	2018 April	112.0	coal (330,000t/year), biomass (15,000t/year) source:EIA
13	Air water & Energia power Yamaguchi(Chugoku Electric Power,Air Water Inc.)			3-1,Kanebocho,Bouhu city,Yamaguchi prefecture		Under EIA by the prefecture	2018	112.0	coal(340,000t/year), biomass (200,000t/year) source: EIA
14	Nippon Paper Industries Co., Ltd			2-1-1,Mukaihama, Akita city (in Akita factory)		Under EIA by the prefecture	2018	112.0	coal (mixed with biomass) . Ration unknown. source:document by MoE The ratio is unanswerble because it's not fixed yet.(by the Manager of energy business division)
15	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	2018	112.0	coal source:Fukushima Construction Industry News
16	IDI infrastructures F-Power Kushiro Coal Mine Taheiyo Kouhatsu Inc.	Kushiro coal power plant(tentative)		Okotsu area,Kushiro city, Hokkaido		EIA by the prefecture will start	2019	100.0	coal source:Nikkei(11 June 2015)
17	Chugoku Electric Power, Hiroshima Gas			2-118,Myojinmachi,Kaita town,Aki-gun,Hiroshima prefecture (used to be Hiroshima Gas Kaita plant) ※proposed site		Under EIA by the prefecture	2019	112.0	biomass,coal,natural gas(for backup) source:Chugoku Electric Power(4 March 2015) targeting mixing ratiofor more than 10% source:The Denki Shimbun(5 March 2015)
18	Group company of Mitsubishi Corporation			Kawajiricho,Yokkaichi city. Mie prefecture		Under EIA by the prefecture	2019	112.0	coal. source :Mainichi (16 January 2015)

19	J-Power	Takehara New No. 1		2-1-1 Tadanouminagahama, Takehara city, Hiroshima prefecture		under construction	2020 June	600.0	coal source:EIA
20	Kyushu Electric Power Co., Ltd.	Matsuura No. 2		2091-1 Shirahamamen, Shisacho, Matsuura city, Nagasaki prefecture		Under Construction	2020 June	1000.0	coal. source: Kyushu Electric Power pressrelease (16 Feb 2015)
21	Tokyo Electric Power J-Power	Yokosuka		9-2 Kurihama, Yokosuka city, Kanagawa prefecture		planning	2020	1000.0	coal source:Sankei (10 oct 2014)
22	Kashima Power (J-Power and NIPPON STEEL&SUMITOMO METAL CORPORATION)	Kashima no.2		3 Hikari, Kashima city, Ibaraki prefecture		under EIA	2020	650.0	coal source:EIA
23	Tohoku Electric Power	Noshiro No.3		1-6 Omoriyama,Noshiro city,Akita prefecture		Assessment by MoE done (because this plan was planned before the EIA Act had been enacted)	2020	600.0	coal source pressrelease by Tohoku electric Power (29 January 2015)
24	Chugoku Electric Power, JFE Steel Corporation Tokyo Gas			Chuo ward, Chiba city, Chiba prefecture (in JFE steel factory)		planning	around 2020	1,000.0	coal. source Nikkei (27 April 2014)
25	Kansai Electric Power	Ako No.1		1062 Higashiokite,Kariya,Ako city,Hyogo prefecture		planning (Fuel change.Assessment will not be implemented.)	2020	600.0	coal. Source:Kansai Electric Power pressrelease (26 March,2015)
26	Kansai Electric Power	Ako No.2		1062 Higashiokite,Kariya,Ako city,Hyogo prefecture		planning (Fuel change.Assessment will not be implemented.)	2020	600.0	coal. Source:Kansai Electric Power pressrelease (26 March,2015)
27	Hitachinaka Generation (Tokyo Electric Power and Chubu Electric Power)	Hitachinaka		768-23 Terunuma, Tokai-mura, Naka-gun, Ibaraki prefecture		under EIA	2021	650.0	coal source:EIA
28	J-Power	Takasago New No.1		6 Umei, Takasago city, Hyogo		under EIA	2021	600.0	coal. source:EIA
29	Chubu Electric Power	Taketoyo No.5		1-1,Ryugu,Taketoyo town ,Chita, Aichi		under EIA	2021	1070.0	coal. source:Chubu Electric Power pressrelease(6 Feb 2015)

30	KOBE STEEL, LTD.	Kobe steelworks(tentative)		2 Nadahama higashicho,Nada ward, Kobe city, Hyogo prefecture		Under EIA	2021	650.0	coal. source:EIA	
31	Chugoku Electric Power	Misumi No. 2		1810 Misumicho Okami, Hamada city, Shimane prefecture		planning	2022 November	1,000.0	coal source:Chugoku Electric Power pressrelease (27 Feb 2015)	
32	KOBE STEEL, LTD.	Kobe steelworks(tentative)		2 Nadahama higashicho,Nada ward, Kobe city, Hyogo prefecture		Under EIA	2021	650.0	coal. source:EIA	
33	Shikoku Electric Power	Saijo No.1		853 Kitagawa, Saijo city, Ehime prefecture		planning	2022	500.0	coal. Source :Denki Shimbun(1 April,2015)	
34	Yamaguchi Ube Power (J-Power, UBE INDUSTRIES,LTD., Osaka Gas)	Nishiokinoyama(tentative)		Nishiokinoyama,Ube city,Yamaguchi Prefecture		Under EIA	2023	600.0	coal. source:press release by J-Power (27 Feb 2015)	
★	35	Kansai Electric Power, Marubeni	Akita Port No.1		Akita city, Akita prefecture (Near Akita port)		planning	2023	650.0	coal source : Yomiuri (12 March 2015)
★	36	Kansai Electric Power, Marubeni	Akita Port No.2		Akita city, Akita prefecture (Near Akita port)		planning	2023	650.0	coal source : Yomiuri (12 March 2015)
37	Tokyo Electric Power, Mitsubishi Heavy Industries, Ltd., Mitsubishi Corporation, Mitsubishi Electric Corporation, Joban Joint Power Co., Ltd. <<Fukushima Revitalization Power Consortium>>	Nakoso		Oshima 20, Sanukamachi, Iwaki city, Fukushima prefecture		under EIA	early 2020's	540.0	coal source:EIA	
38	Tokyo Electric Power, Mitsubishi Heavy Industries, Ltd., Mitsubishi Corporation, Mitsubishi Electric Corporation, Joban Joint Power Co., Ltd. <<Fukushima Revitalization Power Consortium>>	Hirono		Futatsunuma 58, Shimokitaba, Hironomachi, Futaba-gun, Fukushima prefecture		under EIA	early 2020's	540.0	coal source:EIA	
39	Yamaguchi Ube Power (J-Power, UBE INDUSTRIES,LTD., Osaka Gas)	Nishiokinoyama(tentative)		Nishiokinoyama,Ube city,Yamaguchi Prefecture		Under EIA	2025	600.0	coal. source:press release by J-Power (27 Feb 2015)	

40	Chiba Sodegaura Energy (Kyusyu Electric Power, Idemitsu Kosan Co.,Ltd., Tokyo Gas)	No.1		3-1 Nakasode, Sodegaura city,Chiba prefecture		under EIA	2025	1,000.0	coal (considering mixed combustion with biomass) source:Kyushu Electric Power pressrelease (27 March,2015)
41	Chiba Sodegaura Energy (Kyusyu Electric Power, Idemitsu Kosan Co.,Ltd., Tokyo Gas)	No.2		3-1 Nakasode, Sodegaura city,Chiba prefecture		under EIA	2026	1,000.0	coal (considering mixed combustion with biomass) source:Kyushu Electric Power pressrelease (27 March,2015)
42	J-Power	Takasago New No2		6 Umei, Takasago city, Hyogo		under EIA	2027	600.0	coal. source:EIA
43	Kansai Electric Power Tonen General Sekiyu			Ichihara city, Chiba prefecture (in the area of Tonen General Sekiyu oil factory)		planning	mid 2020's	1,000.0	coal source:Mainichi(13 April 2015)
44	Hibikinada thermal power plant			1, Hibikimachi,Wakamatsu ward		Under EIA by the city	unknown (2 years later from construction)	112.0	coal,biomass(target: mixing ratio for 30% at maximum by calorific value) source:EIA
45	MAEDA CORPORATION			Northeast area of Japan		planning	unknown	100.0	coal,biomass(mixing ration unknown) Aiming to use more biomass than general ones but not announceable yet.
46	Kansai Electric Power			Chiba prefecture		planning	unknown	1,000.0	coal source:Tokyo Newspaper (2014/12/21)
47	Soma Kyodo Power Company					Under EIA by the prefecture	unknown	1,000.0	coal source:Nikkei(28 March 2015)
48	Tokyo Electric Power, Chubu Electric Power			Shinchimachi, Fukushima		planning	unknown	1,000.0	coal source:Mainichi (11 April 2015)
								Total	23,496.2
								CO2 Emission (estimated※) (Million tons/year)	140.98

※ MIT report estimate 500MW coal power plant emits 3 million tons-CO2/year
(The Future of coal <http://web.mit.edu/coal/>) .
Japanese plants are estimated to emit almost same extent.

2. Bidding

※ There are overlaps between (1. Planning) 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.

FY2014

	Company	Bidding Conditions						Results	
		Dedline of the bidding	Decision of successful bidder	capacity factor		supply period	supply start	Capacity [MW]	Number of Bidders (Total capacity) [MW]
1	Tohoku Electric Power	Closed (14 Nov,2014)	late Jan-2015	70~80%			June 2020-June 2022	600.0	1 (569)
2	Tokyo Electric Power	31-Mar-2015	Aug-2015	70~80%		15yrs (selectable between 5-15yrs)	April 2019-March 2024	6000.0	10 (4530)
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 (1000)
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 (1221)
5	Kyushu Electric Power	Closed (19 Nov,2014)	Feb-2015			15yrs (selectable between 10-30yrs)	by June 2021	1,000.0	2 (1240)
Total								10,100.0	

FY2015

	Company	Bidding Conditions						Results	
		Dedline of the bidding	Decision of successful bidder	capacity factor		supply period	supply start	Capacity [MW]	Number of Bidders (Total capacity)[MW]
1	Chugoku Electric Power		Feb 2016 (Expected)			selectable between 10-15yrs	June 2021-June 2023	945.0	
2	Shikoku Electric Power	late Oct 2015 (Expected)	January 2016 (Expected)	65-75%		15years (selectable between 10-20yrs)	April 2022-July 2024	500.0	
Total								1,445.0	

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]	Fuel type
1	J-Power	Takehara No. 1		2-1-1 Tadanouminagahama, Takehara city, Hiroshima prefecture		July 1967	250.0	coal
2	Hokuriku Electric Power Co.	Toyama New Port Coal No. 1		1 Horiesengoku, Imizu city, Toyama prefecture	Nov-84	Sep 1971 (Nov 1984)	250.0	coal/heavy oil
3	J-Power	Takehara No. 2		2-1-1 Tadanouminagahama, Takehara city, Hiroshima prefecture	Jun-95	June 1974 (June 1995)	350.0	coal
4	J-Power	Takasago No.1		6-4-1 Umei,Takasago city, Hyogo prefecture		1968	250.0	coal
5	J-Power	Takasago No.2		6-4-1 Umei,Takasago city, Hyogo prefecture		1969	250.0	coal
6	Shikoku Electric Power	Saijo No.1		853 Kitagawa, Saijo city, Ehime Prefecture		Nov 1965 (July 1983)	156.0	coal/biomass
							Total	1,506.0