Outline of Supply Plan for FY2013

March 2013

Kyushu Electric Power Company Inc.

For the FY2013 supply plan, due to the reasons set out below, "TBD" (to be decided) was listed in those areas of planning for which it was not possible to develop detailed plans regarding the balance of estimated demand and supply, etc.

The lack of clarity regarding national energy policy as such matters also relate to a response to global warming.

The lack of clarity regarding the resumption of operations at nuclear power stations.

[Actual electricity sales and Forecast]

FY	2011 (Actual)	2012 (Estimate)	2013	2014	2015	2016	2017	2022	annual average growth rate 2022/2011 (%)
Electric power sold (100 million kWh)	854 (843)	841 (838)	847	851	859 (856)	863	869	901	0.5 (0.6)
Peak demand (10,000 kW)	1,495 (1,551)	1,481 (1,487)	1,548	1,558	1.568	1,581	1,592	1,650	0.9 (0.6)

Note1: () after compensation for air temperature and a leap day

Note2: Maximum 3 days average peak demand at transmission end during summer

[Peak demand and supply balance]

O Plans for FY2013 or later are "TBD" (to be decided).

	FY	2011 (Actual)	2012 (Estimate)
Demand	(10,000kW)	1,495	1,481
Supply capacity	(10,000kW)	1,685	1,640
Reserve capacity	(10,000kW)	190	159
Reserve margin	(%)	12.7	10.8

Note: Maximum 3 days average peak demand at transmission end during summer

[Development Plan]

				Construction	on schedule
Classification	Type	Power plant & unit	Commencement of work		Commencement of commercial operation
	Hydro	Hitotsuse 1	330 kW	May 2012	October 2013
Under	power	Shin-Kosa ²	7,200 kW	May 2012	TBD
construction	Thermal power (coal)	Matsuura unit 2	1,000,000 kW	March 2001	FY2023 or later
	Hydro power	Ryugudaki	190 kW	May 2013	March 2015
		Shin-Naongawa ³	370 kW	September 2014	June 2016
In preparation for	Thermal power (LNG)	Shin-Oita unit 3-4	480,000 kW	July 2013	July 2016
construction	Nuclear	Sendai unit 3	1,590,000 kW	TBD	TBD
1. Divor dom mo	Geothermal power Otake 4		14,500 kW [+2,000kW]	September 2017	December 2019

^{1.} River dam maintenance flows

^{2.} Existing Kosa power station is planned to be discontinued (3,900 kW) with the new construction of Shin-Kosa power station (date is TBD)

^{3.} Existing Naongawa power station is planned to be discontinued (65 kW) with the new construction of Shin-Naongawa power station (October 2014)

⁴ Electric power facilities at Otake Geothermal power will be renewal ([] is the increase of output)

(Reference) Plans under suspension

Type	Power plant & unit	Output	Schedule
Thermal power (petroleum)	Karatsu unit 2 & 3	375,000 kW / 500,000 kW	FY2004-2022

(Reference) Oita unit 1&2 are planned to be discontinued on March 31, 2013

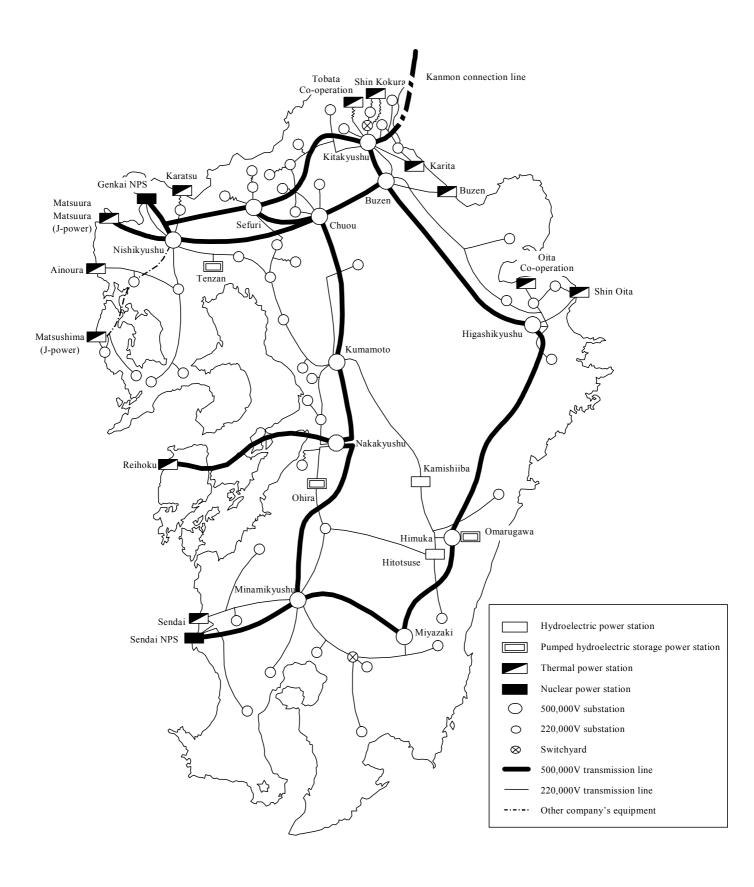
[Main Transmission Facility Construction Plan]

		Constructi	on Outline	Construction	on Schedule	
Classification	Line	Voltage (10,000V)	Length (km)	Commencement of work	Commencement of commercial operation	Construction Reason
	Hitotsuse main line Himuka substation π pull-in line	22	8	May 2012	June 2014	Northern / Central Miyazaki demand measures (new)
Under construction	Sefuri-Ito line	22	20	June 2012	June 2015	Western Fukuoka / Itoshima area demand measures (new)
construction	Kagoshima main line	22	44	August 2012	June 2016	Anti-aging measures, Kagoshima area demand measures [expansion]
	Hyuga main line	50	124	November 2014	June 2019	Northern Kyushu ~ Southern Kyushu 500,000V route accident countermeasures (making to 2 routes) [new]
In preparation for construction	Yuge branch line	22	1	October 2014	June 2016	Anti-aging measures, Eastern Kumamoto demand measures [new]
	Shin-Kagoshima line Sendai NPS π pull-in line	22	5	May 2017	March 2020	Measures for ensuring reliability of external power source at Sendai Nuclear Power Station unit 3 [new]

[Main Transformation Facility Construction Plan]

		Constructi	on Outline	Construction	on schedule	Construction Reason	
Classification	Substation	Voltage (10,000V)	Capacity (10,000kVA)	Commencement of work	Commencement of commercial operation		
Under	Himuka substation	50/22	100	July 2012	June 2014	Northern / Central Miyazaki demand measures (new)	
construction	Yuge substation	22/11/6.6	30/15/25	September 2011	June 2016	Anti-aging measures, Eastern Kumamoto demand measures (pressure rising)	
	Higashi Kyushu substation	50/22	150	September 2014	June 2016	Shin-Oita Power Station Unit3-4 transportation measures [expansion]	
In preparation	Ito substation	22/6.6	60	November 2013	June 2015	Western Fukuoka / Itoshima area demand measures (new)	
for construction	Oita substation	22/6.6	30	May 2014	June 2015	Anti-aging measures (expansion)	
construction	Kagoshima substation	22/6.6	30	March 2018	June 2019	Kagoshima area demand measures (expansion)	
	Higashi Sasebo substation	22/6.6	30	July 2019	June 2020	Sasebo area demand measures (expansion)	

Trunk Electric Power System Plan (As of end of FY2022)



(Reference) Initiatives for renewable energy

- O We are actively developing and implementing renewable energy sources such as solar, wind, biomass, hydro and geothermal power generation because they can help us use domestic energy sources effectively and help to prevent global warming.
- O Applying the power grid of solar power facilities have been increasing sharply because a feed-in tariff power purchase had started in July last year. Therefore we expanded the outlook in 2020 of solar and wind power installation capacity from 3 million kW to 7 million kW.

[Renewable Energy Power Generation Facilities < Kyushu Electric Power and Group Facilities >]

<Solar Power Generation>

(kW)

	Existing	Facilities		Plan				
	Mega-solar Omuta	Installation at branch offices, sales offices etc	Omura Mega-solar	Sasebo Mega-solar	Others Mega-solar	Installation at branch offices, sales offices etc	Total	
Output	3,000	Approx. 2,300	13,500	10,000	1,980	Approx. 1,800	Approx. 32,600	

Developed by group companies

<Wind Power Generation>

(kW)

		Plan						
	Koshikijima	Nomamisaki	Kuroshima	Nagashima	Amami Oshima	Washiodake	Kushima	Total
Output	250	3,000	10	50,400	1,990	12,000	Approx. 60,000	Approx. 128,000

Developed by group companies

<Biomass and Waste Product Power Generation>

(kW)

		Existing Facilities		Plan	Ì
	Miyazaki Biomass Recycling ¹	Fukuoka Clean Energy 1	Reihoku ² (1,400,000 kW)	Matsuura ³ (700,000 kW)	Total
Fuel	Biomass (Poultry manure)	Non-industrial waste	Biomass (Wood chips)	Biomass (Sewage sludge)	
Output	11,350	29,200	maximum co-firing ratio of 1% by weight	_	40,550

- 1 Developed by group companies
- 2 Generating electric power with woody biomass mixed combustion at existing Reihoku Power Station (FY2010 FY2014)
- 3 Generating electric power with sewage sludge biomass mixed combustion at existing Matsuura Power Station (Start of operation in FY2013, approx.700t/year)

< Hydro Power Generation (excluding pumped storage) >

(kW)

	Existing Facilities	Existing Facilities Plan					
	139 locations	Hitotsuse 1	Shin-Kosa 2	Ryugudaki	Shin-Naongawa ³	Total	
Output	1,282,136	330	7,200 (A 3,900)	190	370 (▲65)	1,286,261	

- 1 River dam maintenance flows
- 2 Negative figure of 3,900 kW in Shin-Kosa refers to the discontinued Kosa power plant
- 3 Negative figure of 65 kW in Shin-Naongawa refers to the discontinued Naongawa power plant

<Geothermal Power Generation>

(kW)

		Plan						
	Otake	Hatchoubaru	Yamakawa	Ogiri	Takigami	Hatchoubaru Binary	Otake 1	Total
Output	12,500	110,000	30,000	30,000	27,500	2,000	+2,000	214,000

Note: Feasibility studies are under implementation on sites considered promising in terms of an abundance of geothermal resources for new development

^{1+2,000}kW refers to the increase of output due to the renewal of electric power facilities at Otake Geothermal power (renewal schedule is in December 2019)