Management Reference Materials

November 2018



The Okinawa Electric Power Company, Inc.

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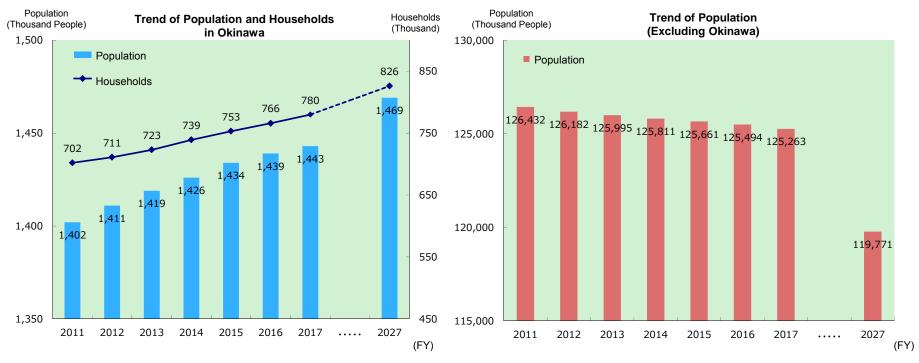
Characteristics of the Business Bases

Item	Overview	Reference Page	
Demand for Electric power	 Increasing demand due to population growth and increasing tourists. As the proportion of energy for consumer use is high, effects of economic fluctuations are low. Potential demand due to large-scale urban development projects 	2~11	
Competition	 OEPC is outside the framework of wide-area power interchange because it has an isolated system. OEPC has voluntarily released power of 10,000kW supplied by J-Power. Power producer and supplier is currently implementing plans to construct power plants. 	12	
Electric Power Generation Facilities	 Reliant on fossil fuels only due to difficulties to develop nuclear or hydraulic power generation A sufficient supply capacity is secured after Yoshinoura Thermal Power Plant has started operations. A high reserve supply capacity is required due to an isolated system 	13~15	
Fuel	 Having introduced LNG, OEPC now provides total energy services. 	16~17	
Remote Islands	 OEPC supplies power to 11 isolated systems including those in the main island. The region has a high cost structure because it has small islands and also because the scale of the economy is small. This leads to constant loss recording. 		
Renewable Energy	 Reducing fuel consumption and cost is highly effective on remote islands, where fuel unit price is high. Since the system in the main island of Okinawa is small and independent, the limit of connection volume is likely to occur when using renewable energy. 	19~20	



Okinawa Prefecture Demographics (1/2)

- While the national population has started decreasing in Japan, the population in Okinawa is expected to grow moderately for the time being.
- Demand for lighting is expected to increase as the number of households (number of contracts) increases in the future.



Source: Population: The actual figures are based on the data provided by the Ministry of Internal Affairs and Communications (MIC).

The figures for FY2027 were calculated based on the estimates provided by the National Institute of Population and Social Security Research (IPSS). No. of households are based on the number of household electric lighting, time-of-day lighting and Ee Life. (actual results and estimate) Source: The actual figures are based on the data provided by MIC. The figures for FY2027 were calculated based on the estimates provided by IPSS.



Okinawa Prefecture Demographics (2/2)

- The total fertility rate of Okinawa Prefecture in FY2017 was 1.94, the highest among all prefectures in Japan (nationwide:1.43)
- While the number of the national population decreased by -1.8 persons per 1,000 people in FY2017, that of Okinawa increased by 2.6 people.

		2013	2014	2015	2016	2017
	Nationwide	1.43	1.42	1.45	1.44	1.43
The total fertility rate (Per Thousand people)	Okinawa	1.94	1.86	1.96	1.95	1.94
	Ranking	(1)	(1)	(1)	(1)	(1)
	Nationwide	-1.4	-1.4	-1.1	-1.3	-1.8
The Increase of population (Per Thousand people)	Okinawa	5.2	4.9	5.6	4.0	2.6
	Ranking	(2)	(2)	(2)	(2)	(3)
T I N () () () () () () () () () (Nationwide	-1.8	-2.0	-2.2	-2.3	-3.0
The Natural Increase of population (Per Thousand people)	Okinawa	4.4	3.8	3.9	3.8	2.9
	Ranking	(1)	(1)	(1)	(1)	(1)
	Nationwide	0.1	0.3	0.7	1.1	1.2
The Social Increase of population (Per Thousand people)	Okinawa	0.1	0.2	0.8	0.2	-0.3
	Ranking	(10)	(8)	(7)	(11)	(17)

Okinawa Prefecture Demographics

(People)

Source: "Vital Statistics" by Ministry of Health, Labour and Welfare The figures in brackets in the chart show Okinawa Prefecture's national ranking

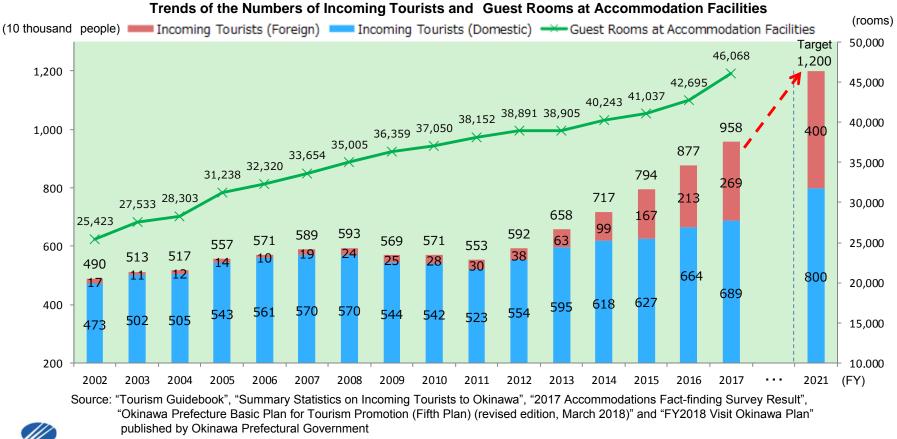


Number of incoming tourists (1/6)

- Okinawa saw a record high of 5.20 million tourists visiting the region in first half of fiscal 2018.
- Demand for power is expected to rise due to an increase in the number of tourism-related facilities (including hotels). [Incoming tourists]

FY2017 : 9.58 million people (Growth rate of 9.2% year-on-year)

- FY2018 [target] : 10.00 million people (Growth rate of 4.4% year-on-year)
 - [1st half] : 5.20 million people (Growth rate of 3.0% year-on-year)



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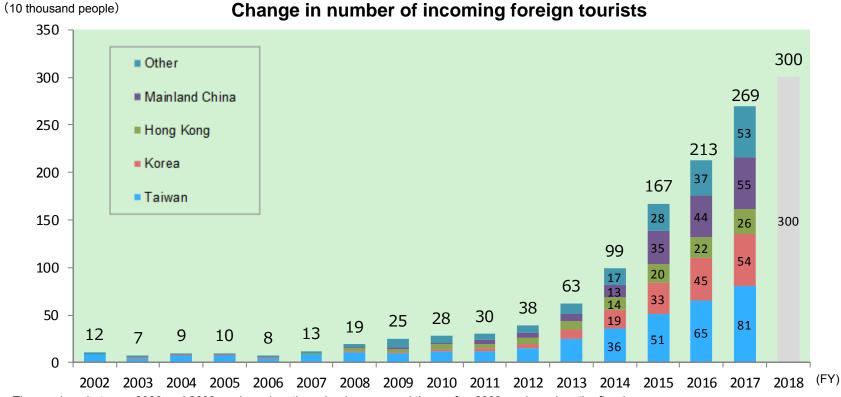
Number of incoming tourists (2/6)

Tourism still remains strong due to the continuing increase in the number of tourist arrivals from Taiwan, South Korea, mainland China, and Hong Kong.

[Incoming tourists]

FY2017 : 2.69 million people (Growth rate of 26.4% year-on-year)

- FY2018 [target] : 3.00 million people (Growth rate of 11.5% year-on-year)
 - [1st half] : 1.69 million people (Growth rate of 12.8% year-on-year)



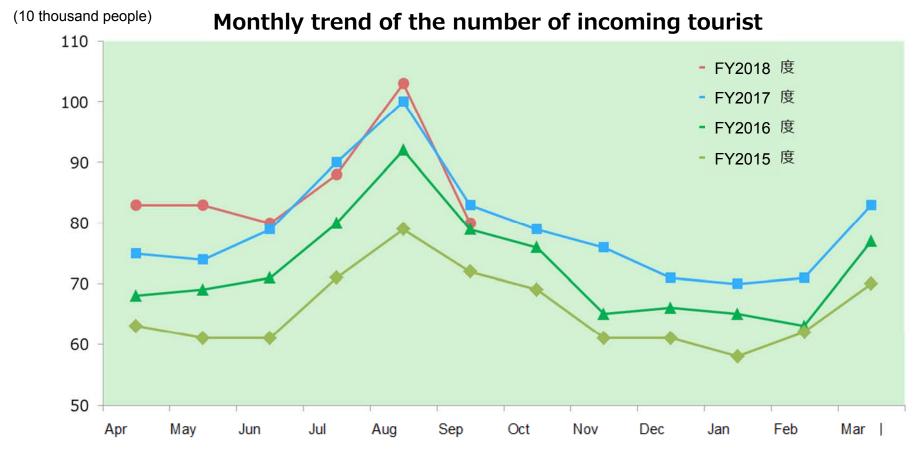
Note: The numbers between 2002 and 2008 are based on the calendar year, and those after 2009 are based on the fiscal year.

Source: "Tourism Guidebook", "Summary Statistics on Incoming Tourists to Okinawa" and "FY2018 Visit Okinawa Plan" published by Okinawa Prefectural Government

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Number of incoming tourists (3/6)

- Okinawa saw a record high of 9.58 million tourists visiting the region in FY2017.
- Although the impact of typhoons, tourists visiting the region increased year-on-year in first half of fiscal 2018.



Source: "Tourism Guidebook" and "Summary Statistics on Incoming Tourists to Okinawa" published by Okinawa Prefectural Government

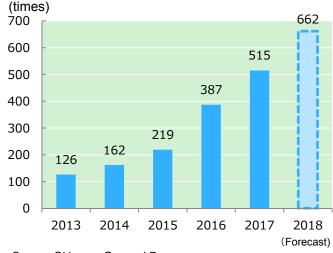
Number of incoming tourists (4/6)

- The number of cruise ships calling at the port has been increasing, and marked a record high of 515 times (up 33%) in 2017.
- The number is likely to mark a record high of 662 times (up 29%) in 2018 as well.
- Aim to strengthen attraction and acceptance system by deploying new berth to ports within Okinawa Prefecture.



Scene of 3 ships calling at Naha Port at the same time (July 28, 2015)

Trend in Number of Cruise Ship Calls in Okinawa Prefecture (Calendar year)



Source: Okinawa General Bureau

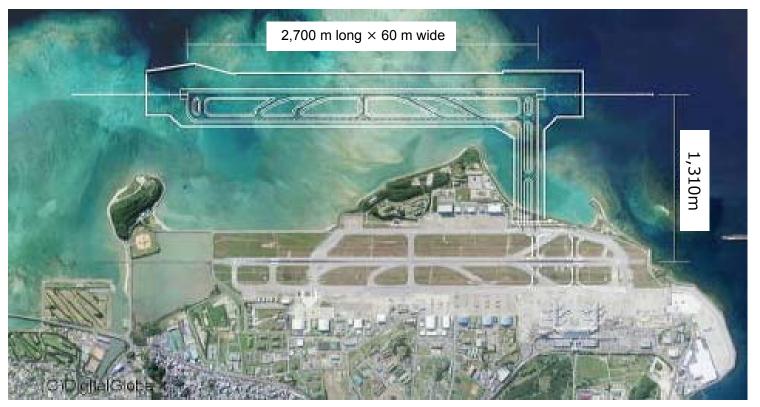
Provided by Naha Port Authority



Number of incoming tourists (5/6)

A second runway is under construction in Naha Airport and is scheduled to be operational at the end of March 2020.

Operation start: Scheduled for the end of March 2020 Number of landings and takeoffs: about an annual increase of 50,000 times (185,000 times a year) *excluding helicopters and midnight flights Reclaimed land area: about 160 ha Total construction cost: about 199.3 billion yen

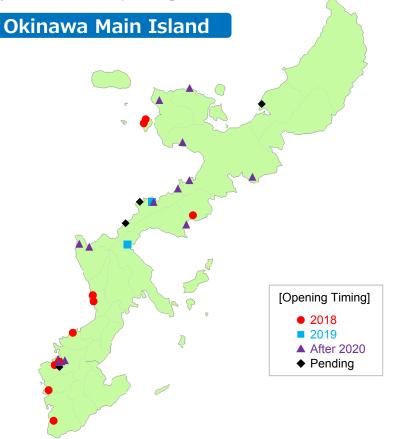




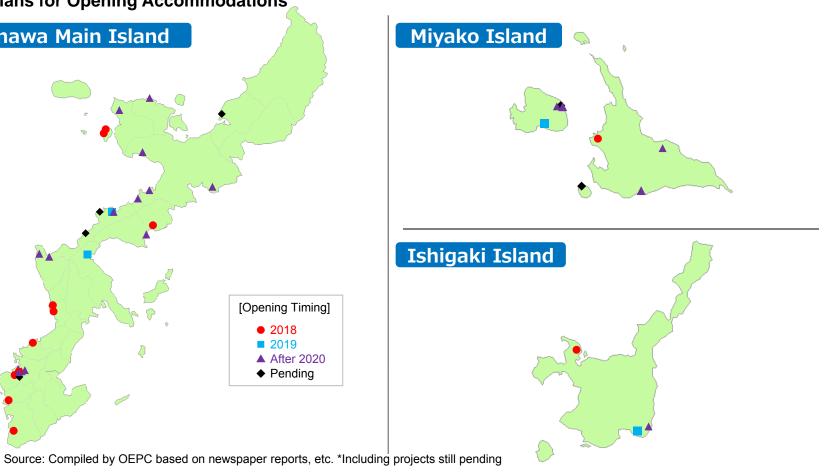
Source:Okinawa General Bureau The Okinawa Electric Power Company, Inc.

Number of incoming tourists (6/6)

- Accompanying an increase in tourists visiting the region, the numbers of accommodation facilities and guest rooms have kept increasing in Okinawa Prefecture.
- Going forward, multiple accommodation facilities are planned to open.









Large-Scale Urban Development Projects

In Okinawa Prefecture, a series of large-scale development projects are planned, which take advantage of former base sites. These will generate new energy demand.

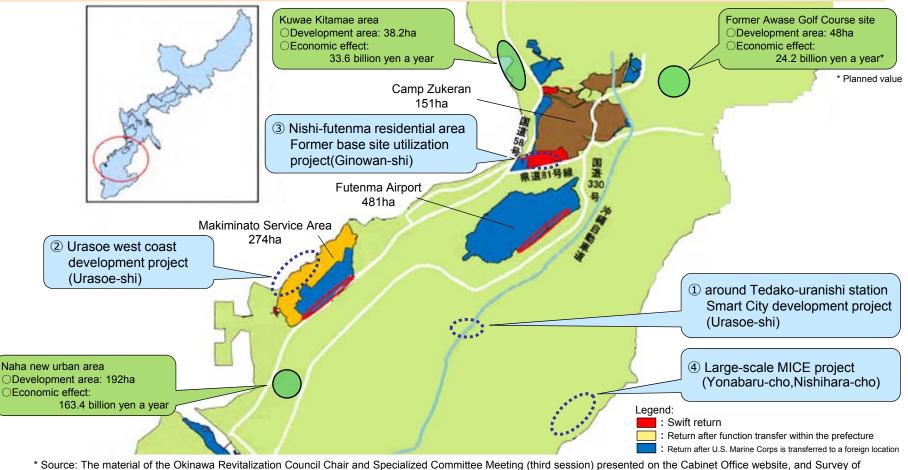
Development Project	Area	Scheduled open year		Outline						
 around Tedako- uranishi station Smart City development project (Urasoe-shi) 	Approx. 20ha	FY2019	Development around Tedako-uranishi monorail station							
 Urasoe west coast development project (Urasoe-shi)Large- scale 	Approx. 200ha	FY2019	 Development of large-scale commercial complex The project may have the second and third phases in future. 							
 Nishi-futenma residential area Former base site utilization project (Ginowan-shi) 	Approx. 46ha	Development starts in FY2019	 Planning of "international medical base zone", "residential zone", etc. Ryukyu University Hospital plans to move to the international medical base zone (FY2024). 							
 Large-scale MICE project (Yonabaru- cho,Nishihara-cho) [Reference] 	Approx. 14ha	Pending		t including Meetings, incentives, conferences, and accommodations by the prefecture						
Development results	Area	Year of	Electricity demand results	Description						
Development results	Alea	return	(FY2017)	Description						
Naha new urban area	Approx. 192ha	1987	150,765MWh (Approx. 1.9%)	Development of homes, large-sized commercial facilities and public facilities						
Former Awase Golf Course site	Approx. 47.9ha	2010	27,429MWh (Approx. 0.4%)	Development of large-sized commercial facilities and hospitals						



Figures in brackets represent the percentages in the total electricity demand

Use of returned former U.S. military base sites

■ If the US military facilities are returned, demand is expected to decrease temporarily. However, demand will subsequently increase on the strength of revitalization of the local economy following redevelopment of the US military facilities sites.



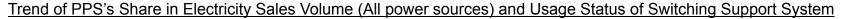
Consideration of Ripple Economic Effects from Utilization of Former U.S. Forces Sites posted on the Okinawa Prefectural Government website

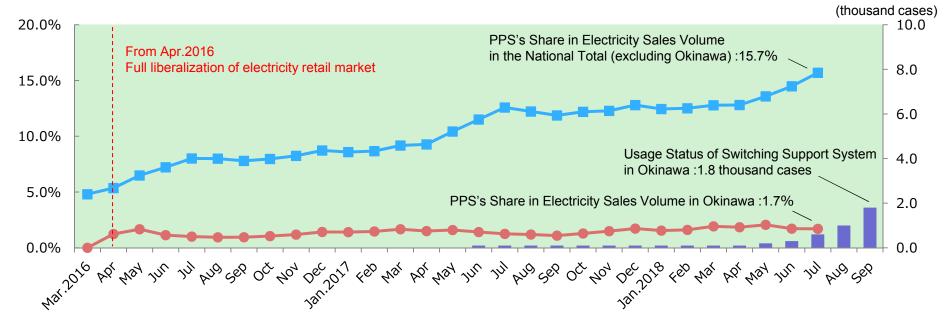


Full liberalization of the Electricity Market

- The electricity market was fully liberalized in April 2016.
- Okinawa Prefecture too has seen new suppliers, officially called power producer and suppliers (PPS), which use a power supply from J-POWER's Ishikawa Coal Thermal Power Station or the feed-in tariff system, enter the market.
- There has been an increasing number of PPS using "the wholesale electricity menu for supply-demand adjustment," which was launched in April 2018.
- PPS's Share in the Electricity Sales Volume in the Okinawa region in July 2018 is <u>1.7% in the total of all voltages</u>. (Extra high voltage: 1.2%, High voltage: 4.0%, Low voltage: 0.0%) Source : Electricity Trading Report for July 2018 (flash report)
- Usage Status of Switching Support System: 1.8 thousand cases (as of September 30, 2018)

Source : Organization for Cross-regional Coordination of Transmission Operators, Japan





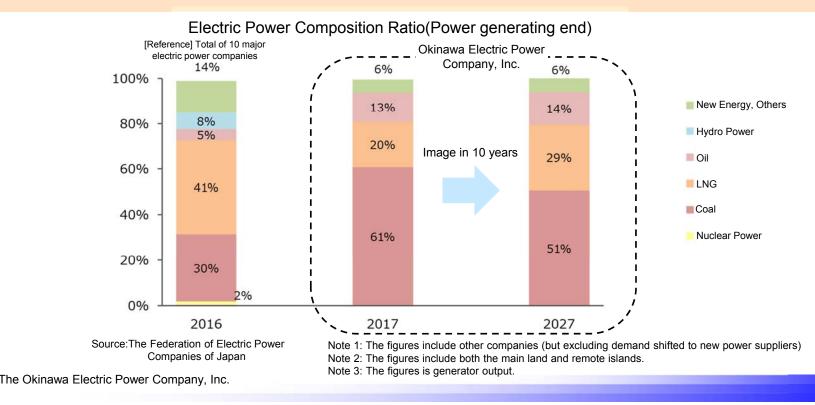
Source : Complied by "OEPC based on Survey of Electric Power Statistics", "Electricity Trading Report" and "Usage Status of Switching Support System".

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Power Generation Facilities (Power Supply Composition)

The composition of electric power source is highly reliant on fossil fuel, as developing nuclear or hydroelectric power generation is difficult in Okinawa due to the reasons of geographic condition and the small scale of demand. Accordingly, fossil fuels; petroleum, coal and LNG, are the only source for the composition.

We have secured long-term power supply capacity, the improvement of energy security, and effective countermeasures for global warming issues by commencing the operation of Yoshinoura Thermal Power Plant, our first plant using LNG.



Power Generation Facilities (Yoshinoura LNG Thermal Power Plant)

- Yoshinoura Thermal Power Plant was constructed as OEPC first LNG thermal power plant from the viewpoints of securing stable supply of electricity, increasing energy security, environmental measures and venturing into gas-related business.
- Yoshinoura Multi Gas Turbine Power Plant was constructed mainly for the purposes of starting power grids in case that the entire main island of Okinawa loses all electricity sources, dealing with the electricity peak of normal time.

_		-							
	Name	Yoshinoura Thermal Power Plant		Yoshinoura Multi-Gas Turbine Power Plant					
	Location	Nakagusi	uku-son, O	kinawa Prefecture					
	Power generation capacity	251,000kW×2 power gene	rators	35,000 kW \times 1 plant					
	Fuel	Liquefied natural gas (LNG	3)	LNG, kerosene, bio-ethanol (The normal fuel to be used is LNG.)					
	Storage facilities	1	40,000kl $ imes$	2 stations					
	Start of commercial operation	Generator No.1:November Generator No.2:May 23, 20		March 20, 2015					
	Fuel procurement	Contractor: Contract period: Contracted quantity: Terms of delivery:	27 years f supply: G About 400	as Co., Ltd. from FY2012 (main source of orgon in Australia) 0,000 t/year n ship's arrival (EX-Ship)					

[Outline of the Power Plant]







Demand - Supply balance

- A high generation reserve margin is necessary because of OEPC's isolated system and the responsibility to provide stable supply as a public utility.
- The reserve capacity exceeding of the largest unit is secured so that it is possible to provide stable supply even if the largest unit breaks down.



■ We would ensure long-term and stable supply.

Demand-supply balance of maximum electric power (August)

(Unit : Thousand kW, %)

		2017 (Results)	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
2	Supply capacity	1,948	2,077	2,067	2,194	2,201	2,207	2,097	2,220	2,221	2,218	2,101
supply	Peak load	1,459	1,467	1,475	1,481	1,492	1,504	1,515	1,526	1,537	1,548	1,558
Demand- balan	Reserve supply capacity	489	610	592	713	709	703	582	694	684	670	543
Del	Reserve supply rate	33.5	41.6	40.2	48.1	47.5	46.8	38.4	45.5	44.5	43.3	34.9

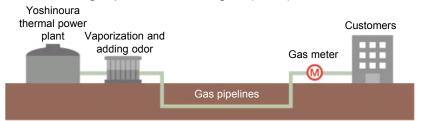
Note: Based on FY2018 Supply Plan Notification. (general transmission / distribution business)

Gas supply business

Commenced gas supply business in May 2015

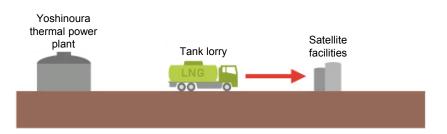
Pipeline supply

Supplies gas to customers in the vicinity of the Yoshinoura thermal power plant through gas pipelines after vaporizing and odorizing liquefied natural gas (LNG)



Lorry supply

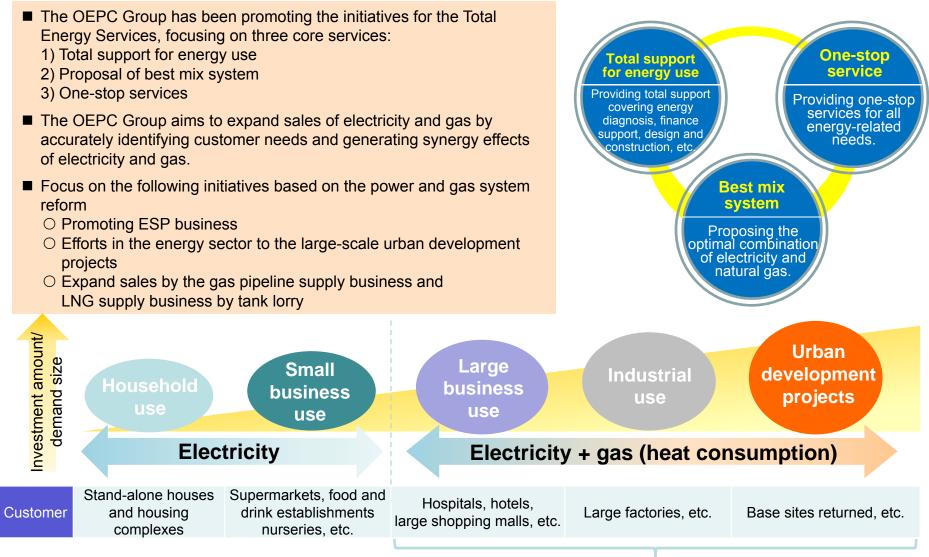
Supplies LNG by tank lorry to customers in areas where pipelines are difficult to be developed



	FY2015 results	FY2016 results	FY2017 results	FY2018 estimate		
New supply contracts	6	4	0	8		
Supply volume	Approx. 12,000 tons	Approx. 23,000 tons	Approx. 25,000 tons	Approx. 29,000 tons		
Revenues	Approx. 900 million yen	Approx. 1,300 million yen	Approx. 1,600 million yen	Approx. 2,200 million yen		
Principal customers	 Okinawa Gas Co. Okinawa Watakyu shingu C Chubu Tokushukai Hospital 		L CO., LTD. •Okinaw CY SERAGAKI Ocean	 ORION BREWERIES,LTD Okinawa Kariyushi Beach Resort Ocean Spa Higa Shuzo Co., Ltd. 		



Development of Total Energy Services

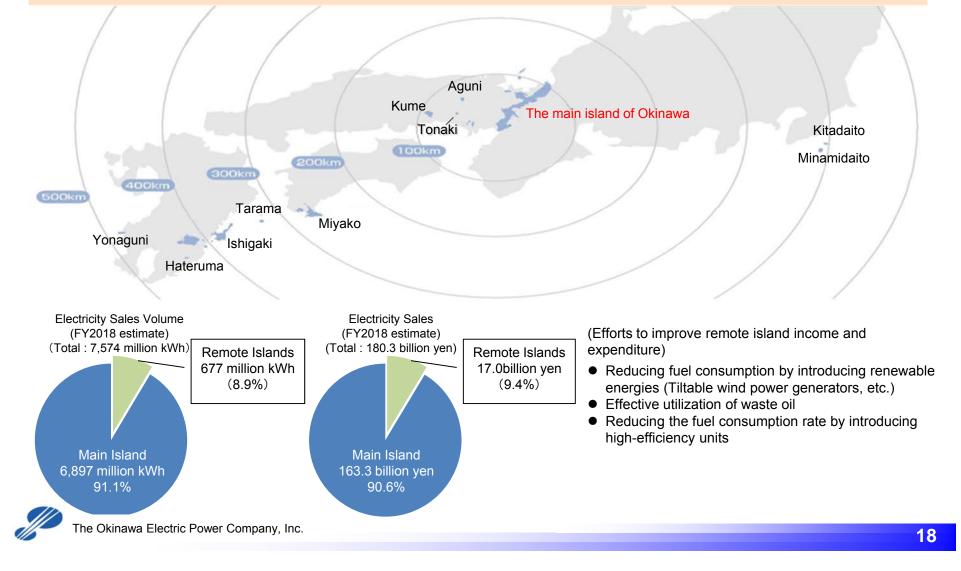




strengthen these domain through total energy services

Remote Islands (Efforts to Improve Income and Expenditure)

- The region has a high cost structure because of such reasons as having small islands scattered about a vast sea area and the narrow scale of the economy.
- Remote island business occupies about 10% of electricity sales and residential, commercial and industrial use charges.



Status of Wind and Solar Power Electricity Generation Facilities

■ The OEPC Group has new energy facilities with total output of 28,490kW (wind power: 22,730kW, solar power: 5,760kW).

	Name	No. of Units	Output	Remark
			4 000 1144	
	Ogimi Wind Power	2	4,000 kW	
	Miyako Wind Power	1	600 kW	
vel	Yonaguni Wind Power	1	600 kW	
0	Aguni Tiltable Wind Power	1	245 kW	*1
ЧE	Minamidaito Tiltable Wind Power	2	490 kW	*1
Wind Power	Tarama Tiltable Wind Power	2	490 kW	*1
	Hateruma Tiltable Wind Power	2	490 kW	*1
	subtotal (7)	11	6,915 kW	
	Abu Mega Solar Power		1,000 kW	
	Naha Branch Solar Power		12 kW	
	Urasoe Branch Solar Power		10 kW	
er	Kitadaito Daini Solar Power		100 kW	*2
Solar Power	Miyako Mega Solar Power		4,000 kW	*2
۲ ۲	Miyako Branch Solar Power	_	10 kW	
lar	Tarama Solar Power		250 kW	*2
So	Yaeyama Branch Solar Power	_	10 kW	
	Hateruma Solar Power		10 kW	
	Yonaguni Solar Power		150 kW	*2
	subtotal (10)	_	5,552 kW	

[Group company]

	Name	No. of Units	Output	Remark
	Sosu Wind Power	2	3,600 kW	
	Nakijin Wind Power	1	1,995 kW	
<u>ب</u>	Gushikawa Wind Power	1	1,950 kW	
Power	Sashiki Wind Power	2	1,980 kW	
P 9	lejima wind Power	2	1,200 kW	
Wind	lejima Daini wind Power	2	1,490 kW	
Σ	Karimata Wind Power	2	1,800 kW	
	Sadefune Wind Power	2	1,800 kW	
	subtotal (8)	14	15,815 kW	
	lejima Solar Power	_	10 kW	
Solar Power	Tokashiki Solar Power		198 kW	
νς Ο	subtotal (2)	_	208 kW	

- *1 < Characteristics and advantages of Tiltable Wind Power>
- Wind power generators can be tilted nearly 90 degrees so that damages by strong winds from typhoons can be avoided by tilting them.
- Wind power generators do not need large-size cranes to construct and can be constructed in moderate hilly areas.
- Wind power generators are retractable so that maintenance work can be carried out on the ground.
- > Wind power generators are supported by wires.
- *2 Micro grid (a combination of system stabilizing technologies such as storage batteries)

(As of September 30, 2018)

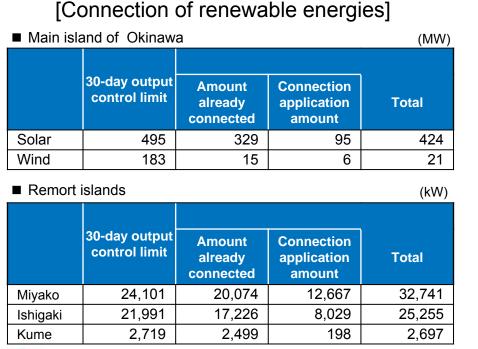


[OEPC]

19

Connection Volume of Renewable Energies

- Since the system in the main island of Okinawa is small and independent, the limit of connection volume is likely to occur when using renewable energy.
- Consequently, we determined 30-day output control limit*1 as 495MW for solar power and 183MW for wind power, based on the assumption that, if telecom technology-based output control system becomes able to be run, output control will be done without compensation up to 360 hours for solar power and up to 720 hours for wind power.
- On the condition that stable supply is ensured, OEPC will keep on working for interconnection and further expansion of renewable energy.
- *1: The connection volume for cases where additional acceptance becomes not possible unless, due to power generator adjustment-range constraint, an electric power company conducts output control in excess of the maximum output control levels of 360 hours (solar power) and 720 hours (wind power) for 30 days



[Purchase of solar power] (MW) (GWh) Power purchase volume Contracted supply amount 1st half



* As of September 30, 2018 The Okinawa Electric Power Company, Inc.



Q & A



1

Current Status and Future Forecast of Okinawa's Economy

■ The current state

Despite the impact of typhoons and other factors, the prefectural economy has been expanded, as a whole, with private consumption staying firm, tourism-related businesses being strong, and public investment in construction-related businesses being resilient.

								•					,							()
Indicators	FY2017											FY2018								
Indicators	Apr.	May	Jun	Jul	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	FY	Apr.	May	Jun	Jul	Aug.	Sep.	1st half
Sales by large-scale retailers	3.7	2.4	3.1	4.5	2.7	11.3	5.0	6.6	5.4	4.1	4.4	4.3	4.8	2.1	1.2	3.9	-0.1	6.9	-2.3	2.0
No. of new car sold	-9.2	1.9	14.1	-8.9	12.5	6.3	1.4	2.2	-8.8	10.8	-8.6	-2.8	0.1	36.9	20.8	-0.1	2.8	-1.9	5.6	9.3
Wholesale shipments of Household appliance	-5.1	-7.7	-0.5	4.2	11.5	-1.8	3.7	-3.8	-13.7	-9.1	-7.5	5.5	-1.9	-13.9	11.5	-4.7	-17.0	-12.0	-9.5	N.A.
Value of public works contracts	0.7	18.4	43.9	31.8	66.3	-38.3	-23.5	-3.7	-19.4	87.2	-10.3	19.7	12.8	26.3	-4.5	-24.9	-40.6	-11.5	59.2	-7.7
No. of inbound tourists	11.4	6.2	11.8	12.7	8.2	5.6	4.1	17.3	8.4	7.9	11.5	7.5	9.2	9.7	12.2	1.4	-2.6	3.5	-4.3	3.0
New residential Construction starts	8.4	-3.4	-12.5	33.7	31.7	-29.2	-19.6	53.3	-19.4	2.6	43.0	-8.9	3.0	-23.4	9.5	28.8	-11.7	-5.9	22.2	1.1
Total unemployment rate	-2.1	-1.8	-0.1	-0.8	-0.5	-0.3	0.2	0.1	-0.2	-0.1	0.3	-0.9	-0.5	-0.7	0.7	-1.0	-1.1	-0.1	0.5	-0.3

Trends in Main Economic Indicators of Okinawa Prefecture(Year-on-Year Comparison)

Note 1: The figures for 'Sales by large-scale retailers' are calculated from the values given in preliminary figures for September 2018 on an all-store base.

Note 2: The figures for 'Total unemployment rates' are raw data, and points of change of Year-on-Year are listed.

Source: Okinawa General Bureau, Okinawa Prefecture, Ryugin Research Institute, and others.

■ Prospect

The prefectural economy is expected to continue to expand. Meanwhile, as risk factors, there are listed the impact of mainland and global economic trends, rising resource prices, and tightening labor demand affect corporate earnings and business sentiment.

(%)

Economic Growth of Okinawa Prefecture under the Okinawa Promotion Plan

- With implementation of a variety of action plans under the Okinawa Prefectural government's "Basic Plan of Okinawa 21st Century Vision (Okinawa Promotion Plan)" which started in FY2012, the prefecture's GDP posted growth rate increase of outpacing the national average growth rate.
- The prefectural economy is expected to grow steadily in the future, and accordingly it's expected that demand for electric power will increase.

Prefectural GDP and National GDP

	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017
Prefectural	-0.8%	4.8%	0.1%	3.3%	3.5%	3.4%
GDP	3,723.3	3,900.8	3,903.3	4,030.8	4,171.2	4,313.0
National	0.8%	2.6%	-0.3%	1.4%	1.2%	1.6%
GDP	499,434.1	512,522.5	510,962.0	518,318.3	524,494.3	532,978.4

Sources: "Prefectural Accounts for FY2015", "Fiscal 2017 State of the Economy" and Cabinet Office "List of Statistical Tables" (Second Preliminary Data for the April-to-June 2018 period)

Note : Prefectural GDP's for FY2016 and FY2017 are estimates. Figures in the upper row are growth rates on a Y to Y basis.

Basic Plan of Okinawa 21st Century Vision (Okinawa Promotion Plan)

In May 2012, the "Basic Plan of Okinawa 21st Century Vision (Okinawa Promotion Plan)" was formulated under the initiative by the Okinawa Prefectural government (revised in May 2017).

Through the implementation of various measures that are developed based on this plan to take advantage of regional characteristics of Okinawa Prefecture, gross production in Okinawa in FY2020 is estimated to increase about 1.4 times compared with that in FY2010 to 5,100 billion yen.



2

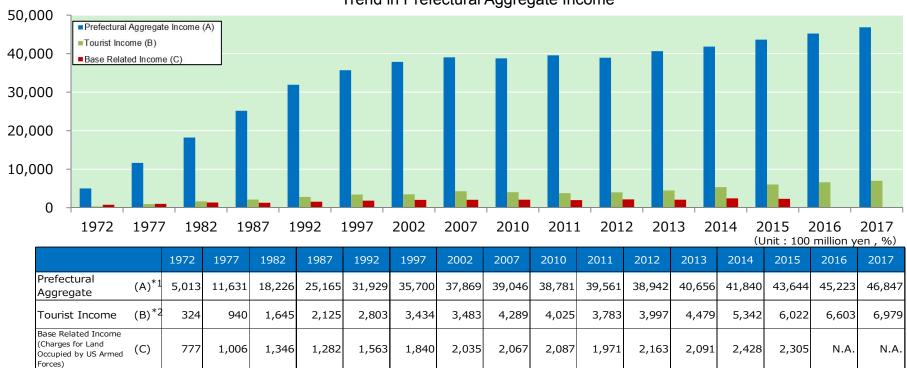
(billion yen)

3

(100 million yen)

Prefectural Aggregate Income

- The Prefectural Aggregate Income also has steadily increased.
- The Tourist Income in FY2017 stood at 697.9 billion yen, posting a record high for five consecutive years. (increased 5.7% over year on year)



Trend in Prefectural Aggregate Income

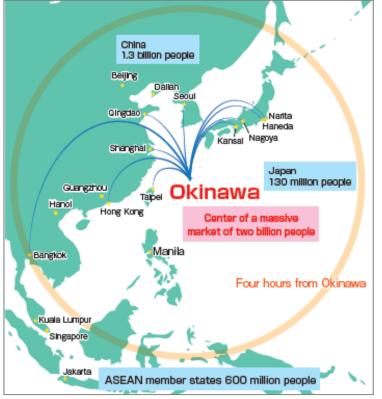
Sources: "US Forces and SDF Bases in Okinawa (Statistics) March 2018", "Fiscal 2017 Tourism Guide", "Fiscal 2017 State of the Economy" published by the Okinawa Prefecture Government *1 Prefectural Aggregate Income for FY2016 and FY2017 are estimates. *2 The figures of 1972 are based on the calendar year.



The Okinawa Electric Power Company, Inc.

Okinawa International Logistics Hub

Okinawa Prefecture is promoting the establishment of an international logistics hub through accumulating the industries at the areas peripheral to airport and harbor where new business is to be developed through utilizing Okinawa international logistics hub. In addition, Okinawa Prefecture is working hard to attract logistics companies from home and abroad.



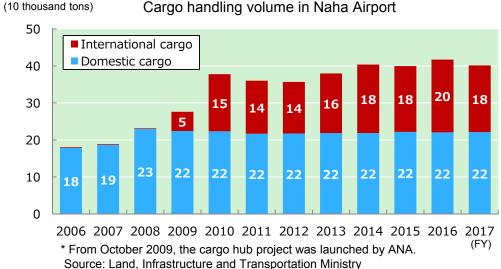
Source: A pamphlet titled "Okinawa International Logistics Hub" (prepared by the International Logistics Promotion Division, Department of Commerce, Industry and Labor and available on the website of the Okinawa Prefecture)



Δ

The Okinawa Electric Power Company, Inc.

- O Okinawa Prefecture is located in the center of the huge market of two billion people.
- Travel time required between Okinawa Prefecture and major cities in Japan and Asia is about four hours.
- O Utilizing late-night cargo flights through 24-hour operation system at Naha Airport.
- O Quick transportation through 24-hour customs clearance system.



Cargo handling volume in Naha Airport

Aviation Industry Cluster

- Aviation demand in Asia is expected to increase in the future and the total number of aircraft is expected to increase by 2.7x in the next 20years.
- Okinawa Prefecture, taking advantage of the characteristic of the center of Asia, is engaged in the aviation industry cluster focused on MRO*.
- A new aircraft maintenance facility will commence operation in the Naha airport after November 2018.

* MRO : Maintenance, Repair, & Overhaul Competitive Advantage through Reciprocal Cooperation Deployment to Component Centers Coordination with Peripheral п Through the Guarantee of a Volume of Airframe Maintenance Telecommunications Industry ✓ Components Center ✓ BPO operations in engineering fields ✓ Repair/Supervision of Components for Maintenance Component manufacturing (interior parts etc.) **WikUJapan** using 3D printing ✓ Leveraging of international logistics hub services MRO Japan Co., Ltd. Business meetings related to aviation Established on June 2015 (Head Office: Naha City) ✓ Utilization of drones, etc. Businesses: Aircraft Maintenance, Repair, & Overhaul Paid-in Capital: 1 billion yen Shareholder composition: ANA Holdings Inc. 45% JAMCO Corporation. 25% Mitsubishi Heavy Industries, Ltd. 20% The Okinawa Development Finance Corporation. 2% Π **Functional Support** Bank of The Ryukyus, Ltd. 2% The Bank of Okinawa, Ltd. 2% Support of Research Support of Personnel Tax Incentives/Investment The Okinawa Kaiho Bank, Ltd. 2% and Development **Development and Procurement Cost Reduction** The Okinawa Electric Power Company, Inc. 2%

Source: The Industrial Site Promotion Guide Book March 2018



4

Q2. What is the Current State of U.S. Military Bases?

Outline of the U.S. military Forces

in Okinawa

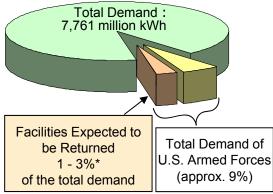


<Reference>

No. of employees working for the U.S. Armed Forces in Okinawa: 8,825 *As of the end of March 2017.

Sources : Japan Ministry of Defense "US Forces and SDF Bases in Okinawa March 2018", Military Base Affairs Division, Executive Office of the Governor, Okinawa Prefecture

The U.S. Armed Forces' share of total electricity demand



* Range in figures due to planned return of facilities includes partial return.

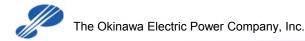
Principal electricity supply destination facilities *1

Name		Location *2	Area
Camp Gonsalves	[US Marine Corps]	Kunigamison, Higashison	36,584km
Okuma Rest Center	[US Air Forces]	Kunigamison	546km [*]
Iejima Auxiliary Air Base	[US Marine Corps]	Ieson	8,015km [*]
Yaedake Communication Site	[US Air Forces]	Motobucho, Nago-shi	37km [*]
Camp Schwab	[US Marine Corps]	Nago-shi, Ginozason	20,626km
Camp Hansen	[US Marine Corps]	Nago-shi, Ginozason, Onnason, Kincho	49,785km
Kadena Ammunitions Storage Are [shared use]		Onnason, Uruma-shi, Okinawa-shi, Kadenacho, Yomitanson	26,585km
Camp Courtney	[US Marine Corps]	Uruma-shi	1,339km [*]
Camp Mc Tureous	[US Marine Corps]	Uruma-shi	379km [*]
Camp Shields	[shared use]	Okinawa-shi	700km²
Torii Station	[US Army]	Yomitanson	1,895km [*]
Kadena Airbase	[shared use]	Okinawa-shi, Kadenacho, Chatancho, Naha-shi	19,855km [*]
White Beach Naval Facility	[shared use]	Uruma-shi	1,568km [*]
Camp Kuwae	[shared use]	Chatancho	675km [*]
Camp Zukeran	[shared use]	Uruma-shi, Okinawa-shi, Kitanakagusukuson, Chatancho, Ginowan-shi	5,450km
Futenma Airport	[US Marine Corps]	Ginowan-shi	4,806km
Makiminato Service Areas	[US Marine Corps]	Urasoe-shi	2,727km²
Naha port facilities	[shared use]	Naha-shi	559km [*]

*1 Professional use and large-demand customers

*2 Areas where facilities exist on a cross-area basis

*3 Facilities south of Kadenacho are scheduled to be returned (Partial return applies to Camp Zukeran)



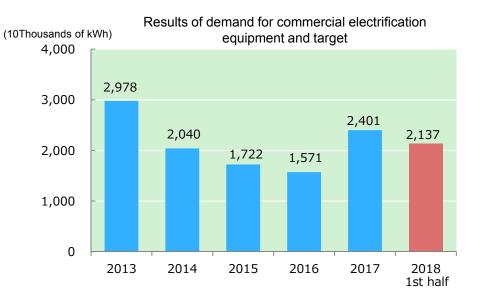
*3

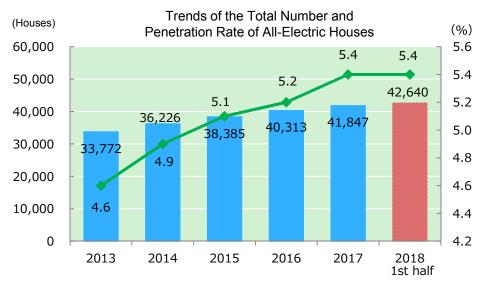
Q3. What is the Current State of Promotion of Electrification?

- Approach for sales promotion in the corporate sector
 (1) Offering customers comprehensive proposals for electrification (air-conditioning systems, kitchens, and water heaters) appropriate for their power usage.
- (2) Promotion of highly efficient heat-pump appliances (i.e. air-conditioning systems and water heaters)
- (3) Strengthening of cooperation with sub-users including manufacturers, contractors, design offices, etc.
- (4) Utilization of public subsidy system, etc.

- Approach for the promotion and growth in the household sector
- (1) Launching effective promotion activities to apeeal safety, comfortability, cleanness and economic efficiency which are goodness of all-electric houses.
- (2) Strengthening cooperation with sub-users
- ♦ The ratio of all-electric houses to newly built houses in the first half of FY2018

Stand-alone houses: 32.3% Complex: 0.7%





Q4. Introduction of new electricity rate menus(1/2)

The electricity rate menu for all electrification "Ee Life" was renewed to introduce two electricity rates for households. (From April 1, 2017)

◆ Ee Home Holiday S

Suitable for families with less electricity usage on weekdays

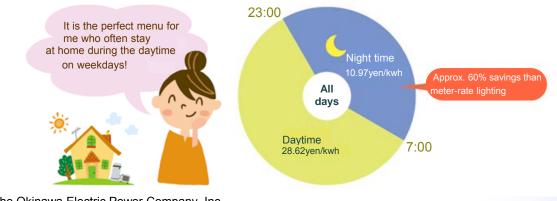




Recommend to customers, such as double-income households

♦ Ee Home Flat

Suitable for families with more electricity usage during the daytime on weekdays





Recommend to customers, such as households with full-time housewives and with senior citizens alone

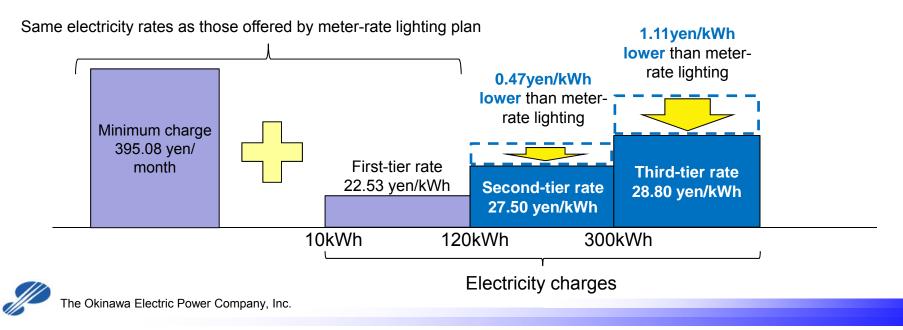
The Okinawa Electric Power Company, Inc.

Q4. Introduction of new electricity rate menus(2/2)

From June 1, 2018, we will be offering the "Good Value Plan," an electricity rate menu for households.

Summary of Good Value Plan

- ✓ The second- and third-tier electricity rates are set lower than those of the meter-rate lighting plan.
- ✓ The pricing particularly benefits those customers who are heavy users of electricity.
- Average users of electricity (260kWh/month) can save approx. 800 yen a year on their electricity bills, compared to those on the meter-rate lighting plan.



Q5. What are the efforts to fuel cost reduction?(1/3)

Efforts toward stable procurement of fuels and reduction of fuel costs.

Efficient operation of coal-fired plants by reducing consumption of fuel oil and LNG

Making Ishikawa Thermal Power Plant the base of distributing fuel oil to remote islands

Reduction of fuel costs through measures including purchasing fuel oil on the spot market and holding competitive bidding

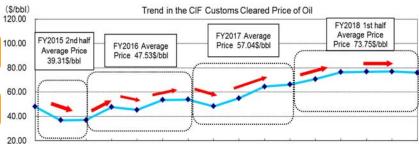
Stable procurement through long-term coal purchase contracts

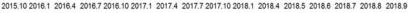
Optimize the allocation of vessels by using "Shinryomaru", a specialized coal carrier, and entering into a contract of affreightment

Continued use of sub-bituminous coals that are low in not only prices but also transport costs

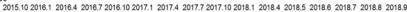
Stable procurement through long-term LNG purchase contracts

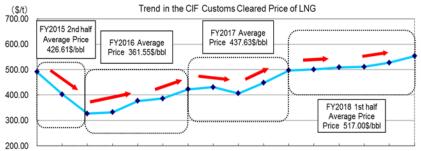
Achieving stable fuel supply and pursuing cost reductions









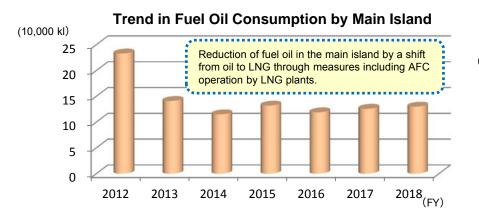


^{2015.10 2016.1 2016.4 2016.7 2016.10 2017.1 2017.4 2017.7 2017.10 2018.1 2018.4 2018.5 2018.6 2018.7 2018.8 2018.9}

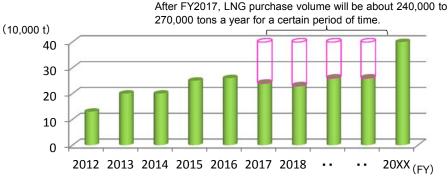
Q5. What are the efforts to fuel cost reduction?(2/3)

Efficient operation of coal-fired plants by reducing consumption of fuel oil and LNG

Reduction of oil consumption by shifting AFC* that oil-fired plants took charge of to LNG-fired plants. * AFC=Automatic Frequency Control
 A shift to coal-fired plants that have much lower power unit costs by reducing the volume of LNG.



Trend in LNG Purchase Volumes



■ Introduction of "Shinryomaru", a second-generation specialized coal carrier

- The introduction of "Shinryomaru", a first-generation specialized coal carrier, in 2003 has made coal transport reliable.
- Since March 2018, the operation of second-generation "Shinryomaru", which has enhanced environmental performance and fuel efficiency, has started.

<Outline of second-generation "Shinryomaru">

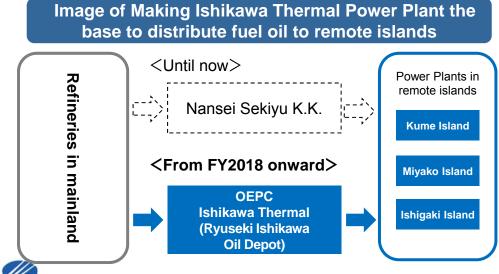
- 1. Total length: 234.99 meters
- 2. Total width: 43.00 meters
- 3. Summer full load draft: 12.882 meters
- 4. Deadweight tonnage: 92,049 tons



Q5. What are the efforts to fuel cost reduction?(3/3)

Plan for Making Ishikawa Thermal Power Plant the base to distribute fuel oil to remote islands

- The terminal cost was considerably increased accompanying Nansei Sekiyu K.K. converting to the terminal business.
 - \rightarrow The heating cost* of fuel oil rose by the withdrawal from the petroleum refining business.
- Cost reduction by making Ishikawa Thermal Power Plant the base to distribute fuel oil to remote islands(From May in 2018)
 - Effective utilization of existing heavy oil tank
 - Reduction of heating cost* by using auxiliary steam of Thermal power plant
 - * Cost of heating for increasing the fluidity of C heavy oil, which is highly viscous





Heavy oil tank in Ishikawa Thermal

The Okinawa Electric Power Company, Inc.

Q6. What are the efforts to reduce CO_2 emissions?(1/2)

Efforts in electricity business

- Introducing hydro or nuclear power is difficult in Okinawa Prefecture due to reasons including the region's geological and geographic characteristics and constraints on the scale of demand ⇒ Dependency on fossil fuels (oil, coal, etc.)
- OEPC commenced operation of Yoshinoura Thermal Power Plants, which are fueled by LNG with low CO₂ emissions, in November 2012.
- OEPC efforts to CO₂ emissions reductions in cooperation with the Electricity Business Council for a Low-Carbon Society.

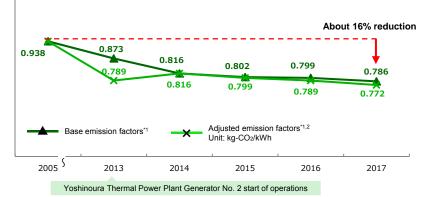
[Key measures against global warming]

Stable operation of Yoshinoura Thermal Power Plants, which are fueled by LNG

Use of renewable energy (e.g. mixed combustion of woody biomass fuel, Tiltable wind power generators)

Trends of CO₂ emission factors

1



Note 1: Electricity sales volume and CO₂ emission factors related to electricity retailers (the main island of Okinawa) in and after FY2016 due to the full liberalization of the electricity market. Figures in and before FY2015 are for former general electricity utilities (main and remote islands).

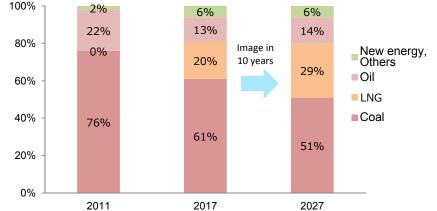
Note 2: Adjusted emission factors reflecting adjustments related to the feed-in tariff system and other factors.

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Improvement of efficiency of energy use

Promotion of energy-saving and CO₂ saving activities

Electric Power Composition Ratio (power generating end)



Note 1: The figures include other companies (but excluding demand shifted to new power suppliers). Note 2: The figures include both the main and remote islands.

Note 3: The figures are generator output.

Q6. What are the efforts to reduce CO_2 emissions?(2/2)

Efforts in OEPC Group

2

- Through the gas supply business, the OEPC Group is working to shift customers' energy sources from heavy oil to LNG, which is low in CO₂ emissions.
- In the overseas business, the OEPC Group contributes to promoting the wide spread use of renewable energy facilities in Pacific island states with high dependency on fossil fuels similar to Okinawa.
- The OEPC Group will make all-out efforts to reduce CO₂ emissions in a comprehensive manner.

[Efforts in gas supply business] Orion Breweries, Ltd.

- Orion Breweries became the first brewing company in Okinawa to shift its fuels from heavy oil to natural gas.
- Introduction of natural gas is expected to reduce CO₂ emissions by 1,500t annually.



LNG satellite facilities

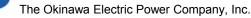
[Efforts in overseas business] Delivery of tiltable wind power generators to Tonga.

- Progressive Energy Corporation (PEC) received an order for ODA project involving the Kingdom of Tonga.
- PEC signed a contract with Tonga Power Limited for five tiltable wind power generators.





▲ Tiltable wind power generators (Left picture : Aguni Island, Right picture : Hateruma Island)



Q7. What are the CO₂ Emission Volumes by Fuel Type?

LNG (Liquefied Natural Gas) produces less carbon dioxide, a major cause of global warming, than coal or oil.

Chart: Comparison of CO₂ Emission Volumes by Fuel Type

	*1 CO ₂ Emission			*2			
Fuel Type	Volume Per Unit Heat Value [g-CO ₂ /MJ]	vs. Coal	vs. Oil	CO ₂ Emission Volume Per kWh [kg-CO ₂ /kWh]	vs. Coal	vs. Oil	
Coal	90.6	1.00	1.27	0.85	1.00	1.23	
Oil ^{*3}	71.5	0.79	1.00	0.69	0.81	1.00	
LNG	49.5	0.55	0.69	0.38	0.44	0.55	

*1 The values of the Enforcement Order of the Act on Promotion of Global Warming Countermeasures. (Convert the CO₂ emission factors Kg-C/MJ to g-CO₂/MJ)

*2 Calculated using actual value of OEPC's Thermal Efficiency at Generation End at FY2017.

*3 Oil comparisons were based on type C heavy oil.

Q8. The Fuel Cost Adjustment System(1/2)

The fuel cost adjustment system was introduced for the purpose of clarifying the "internal factors" such as the results of efforts to promote management efficiency at electric power companies and reflecting "external factors" onto electricity rates such as exchange rates and oil and coal and LNG prices that alter the economic situation.

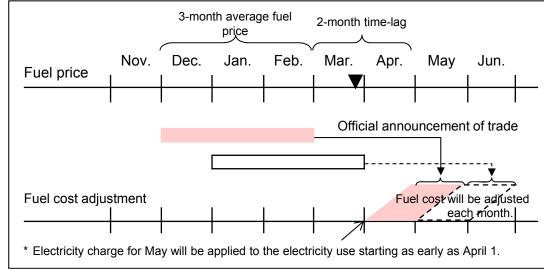
[Range of fuel cost adjustment]

- OWe will calculate the average fuel price based on the prices of crude oil, coal and LNG on the trade statistics during the period between five months and three months prior to the fuel cost adjustment, and electricity charge will be automatically adjusted each month by comparing the above price with the standard fuel price at the time of electricity rate revision.
- \bigcirc The maximum level of fuel cost adjustment will be 50%.
- OThere will be no lower adjustment limit.

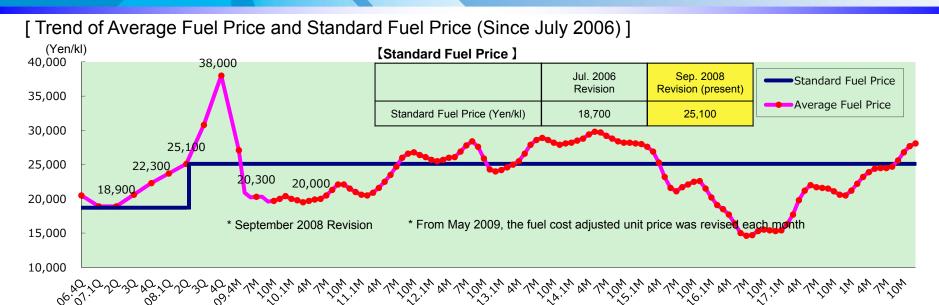
[Conceptual drawing of the fuel cost adjustment system]

E.g. The average fuel price during the period between December and February of the following year will be applied to fuel cost adjustment for the electricity charge for May in the following year.

The average fuel price during the period between January and March will be applied to fuel cost adjustment for the electricity charge for June in the same year.



Q8. The Fuel Cost Adjustment System(2/2)



(Period for	estimating a	fuel price	range)
	countraining a	iuci price	runge/

Fuel cost	Applicable period	2018.Apr.	2018.May.	2018.Jun.	2018.Jul.	2018.Aug.	2018.Sep.	2018.Oct.	2018.Nov.	2018.Dec.	2019.Jan.	2019.Feb.	2019.Mar.
adjusted	Calculation period	2017.Nov.	2017.Dec.	2018.Jan.	2018.Feb.	2018.Mar.	2018.Apr.	2018.May	2018.Jun.	2018.Jul.	2018.Aug.	2018.Sep.	2018.Oct.
unit price	Calculation period	- 2018.Jan.	- 2018.Feb.	- 2018.Mar.	- 2018.Apr.	- 2018.May	- 2018.Jun.	- 2018.Jul.	- 2018.Aug.	- 2018.Sep.	- 2018.Oct.	- 2018.Nov.	- 2018.Dec.
	Price (ven/kl)	23,900	24,400	24,500	24,500	24,700	25,600	26,800	27,700	28,100	Undecided	Undecided	Undecided
Average rue	Price (yen/kl)	(19,800)	(21,200)	(22,000)	(21,700)	(21,600)	(21,500)	(21,100)	(20,600)	(20,500)	(21,200)	(22,200)	(23,200)
	de Oil Drige (vers/kl)	43,713	45,503	45,737	45,254	45,746	48,081	51,505	53,435	53,505	Undecided	Undecided	Undecided
Average Cruc	de Oil Price (yen/kl)	(34,876)	(37,112)	(39,577)	(39,127)	(38,598)	(37,317)	(36,032)	(34,803)	(34,571)	(36,035)	(38,508)	(41,541)
Average Coal Price (ven/t)		11,811	11,946	11,935	12,034	12,165	12,451	12,769	13,133	13,457	Undecided	Undecided	Undecided
Average ooa		(10,092)	(10,821)	(11,059)	(10,851)	(10,936)	(11,078)	(11,035)	(10,865)	(10,747)	(11,089)	(11,415)	(11,715)

[Method of calculating Average Fuel Price] Average Fuel Price = $A \times \alpha + B \times \beta$

Figures in parenthesis represent the figures from the same period of the previous year

A: Average crude oil price per kiloliter in each quarter B: Average coal price per ton in each quarter

* α and β are coefficients in Provisions of supply to calculate the average fuel price. (Reference α: 0.2410, β: 1.1282 Provisions of supply Sept. 2008 effective)



Q9. How do Current Electricity Rates Compare to Rates of Other Companies?

While the detailed comparison of electricity rates is not available due to limited amount of disclosed data,

the information publicly available on each company's website for comparison purposes is as follows.

* It is based on information as of October 31,2018.

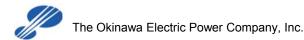
Model Unit Rates for All Companies (As of December 2018)

(Including fuel cost adjustments, equivalents of consumption taxes, Renewable Energy Power Promotion Surcharges)

	OEPC	Co. A	Co. B	Co. C	Co. D	Co. E	Co. F	Co. G	Co. H	Co. I
Meter-rate lighting Model Basic Unit 260	29.94 ⑨	33.34 10	28.60 ⑧	27.98 ⑦	26.58 ④	25.92 ①	26.30 ③	27.49 ⑥	27.42 ⑤	26.09 ②

Note: Circled numbers indicate price level rankings (larger numbers indicate more expensive rates).

The simulated calculation was made by the Company after unifying basic units published by individual companies into 260kWh.



(Unit: ven/kWh)

Q10. Electricity System Reform

- ○In April 2013, the Cabinet decided to approve the Policy on Electricity System Reform that set the direction for the full retail liberalization and the unbundling the transmission / distribution sector.
- O Based on this policy, the Cabinet decided to approve the Bill for the Act for Partial Revision of the Electricity Business Act in November 2013. The Policy also mentions that the reform focusing on these three pillars will be implemented by dividing it into three phases, while thoroughly studying the challenges to be overcome at each phase and taking necessary measures based on the results of the study, so as to advance the reform effectively. This act also sets forth that "measures based on the special nature of the electric power business in the Okinawa region" will be implemented for Okinawa.
- O The full retail liberalization is scheduled to be implemented in all of Japan including Okinawa Prefecture in accordance with the "Act for Partial Revision of the Electricity Business Act, etc." (enacted in June 2014) which related to the second stage of the Electricity System Reform.
- O The OEPC started to release power of 10,000kW supplied from Ishikawa Coal-Fired Thermal Power Plant of J-Power in April 2016 for the purpose of cooperating establishment of a competitive environment in Okinawa area. In addition, the OEPC has started offering "the wholesale electricity menu for supply-demand adjustment" as part of making further voluntary efforts contributing to revitalizing the wholesale electricity market since April 2018.
- OThe OEPC is exempt from the treatment of the legal unbundling which aims at further securing of neutrality of the transmission/ distribution sector. Specifically, if the OEPC is approved as the "Approved general power transmission and distribution operator" which can operate power retail business and power generation business in accordance with the "Act for Partial Revision of the Electricity Business Act, etc." which passed through the House of Councillors and was enacted as of June 17, 2015, we can continue maintaining the integrated system for power transmission and distribution.

Purpose of electricity system reform	וו	Main system reforms	ו ר	Reform progra	m	
		Expanding nationwide		Details		Bill submission date Implementation date
 Securing a stable supply Suppressing electricity rates to the maximum 		system operation		[1st stage] Establishment of the Organization for Cross- regional Coordination of Transmission Operators		on Nov. 13, 2013. ned on Apr. 1, 2015.
extent possible 3. Expanding choices for		Full retail liberalization		[2nd stage] Full retail liberalization		on Jun. 11, 2014. nted on Apr. 1, 2016.
consumers and business opportunities		Neutralizing the power transmission/ distribution sector		[3rd stage] Further securing of neutrality of the transmission/distribution sector (legal unbundling) and full liberalization of retail electricity rates		on Jun. 17, 2015. plemented on Apr. 1, 2020.



Q11. What are the Special Tax Measures?

- We consider that special taxation measures are necessary for promoting business in Okinawa Prefecture and improving the lives of Okinawa residents on the grounds that disadvantages inherent in Okinawa's electricity business have remained unchanged. For example, there are many small and isolated systems and Okinawa is dependent on thermal power.
- The amount of tax exemption based on the special taxation measures is deducted from the cost of electricity charge.

Currently Applied Special Tax Measures

	Preferential Measure for Standard Taxable Values Relating to Fixed Property Tax	Exemption from the Oil and Coal Tax Relating to Specific Coal, etc. (Coal and LNG) Used for Power Generation in Okinawa
Details	Alleviation to 2/3 of Standard Taxable Values	(1) Exemption from the Oil and Coal Tax for coal(2) Exemption from the Oil and Coal Tax for LNG
Period	April 1, 1982 - March 31, 2020 * Extended for 5 years from April 1, 2015	 (1) October 1, 2003 – March 31, 2020 * Extended for 5 years from April 1, 2015 (2) April 1, 2012 – March 31, 2020 * Extended for 5 years from April 1, 2015
Basic Law	Supplementary Provisions of the Local Tax Law (Article 15.5)	Special Measures Law for the Promotion of Okinawa (Article 65.2) Special Taxation Measures Law (Article 90.4.3.1)
	the Act on the Special Measures for the Promotion and nt of Okinawa	Value of Tax Alleviation Due to the Special Measures

- The Act on the Special Measures for the Promotion and Development of Okinawa was revised in March 2012, and the revised law came into effect on April 1, 2012.
- Under the revised law, etc., OEPC receives favorable treatment based on "Preferential Measure for Standard Taxable Values Relating to Fixed Property Tax" and "Exemption from the Oil and Coal Tax Relating to Specific Coal, etc. (Coal and LNG) Used for Power Generation in Okinawa".

- The value of the alleviation measures in FY2017 : about 3.7 billion yen.
- The value of the alleviation measures for FY2018 : expected to be 3.6 billion yen.



Q12. Response to the Corporate Governance Code

1. Action to comply with all the principles of Japan's Corporate Governance Code

■ Basic Policy on Corporate Governance, consisting of the following five items, has been established.

- (1) Securing the rights and equal treatment of shareholders
- (2) Appropriate cooperation with stakeholders
- (3) Ensuring appropriate information disclosure and transparency
- (4) Responsibilities of the board
- (5) Dialogue with shareholders, etc.

2. Overview of "Analysis and Evaluation of Effectiveness of the Entire Board of Directors"

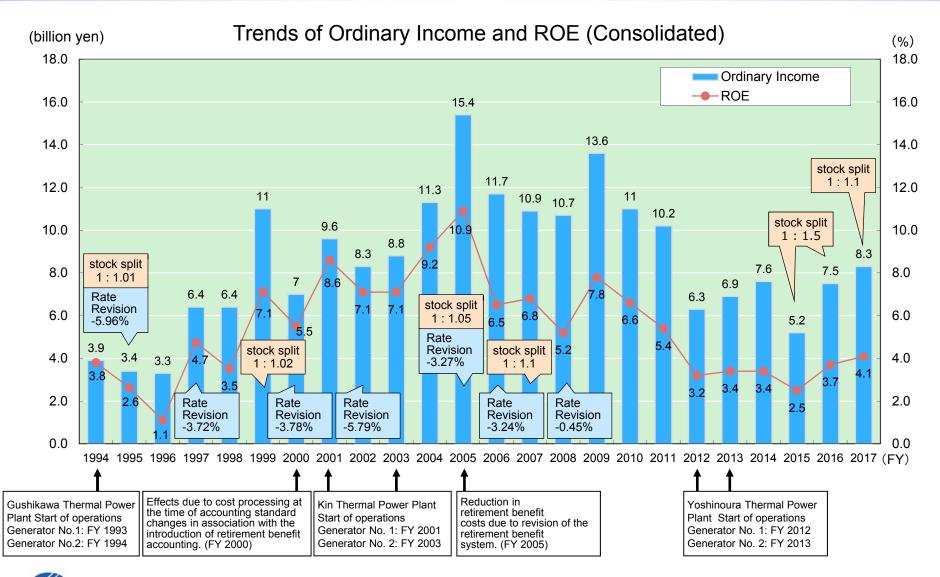
Questionnaires has been conducted with directors and auditors, and the analysis and assessment of the outcome has been reported at a board of directors meeting, ending up confirming the effectiveness.

ltem	Outline of Assessment Results
(1) Composition of Board of Directors	 Efforts are made to elect qualified outside directors. The composition of the Board is well balanced to make constructive discussions.
(2) Efforts to revitalize Board of Directors	 Materials are distributed in advance, and explanations are made beforehand as necessary. Ample time is set aside for deliberations, and lively discussions take place.
(3) Training of directors and auditors	Efforts are made to provide sufficient opportunities for training.
(4) Efforts toward business plans, etc.	 Constructive discussions are held about management policies, plans and others. Efforts and achievement levels are sufficiently analyzed toward realizing medium- and long-term management plans.
(5) Information sharing with outside directors	> A series of meetings are set up, and efforts are made to strengthen information sharing.

3. Response to the revision of the Corporate Governance Code

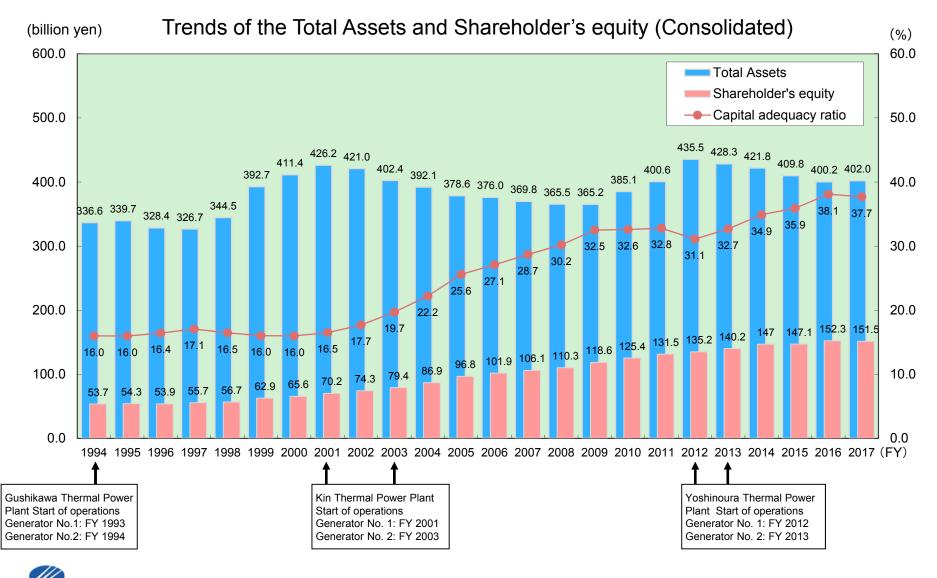
■ We are planning to file a report on corporate governance reflecting the revised code by December 2018.

Reference 1: Trends of Ordinary Income and ROE

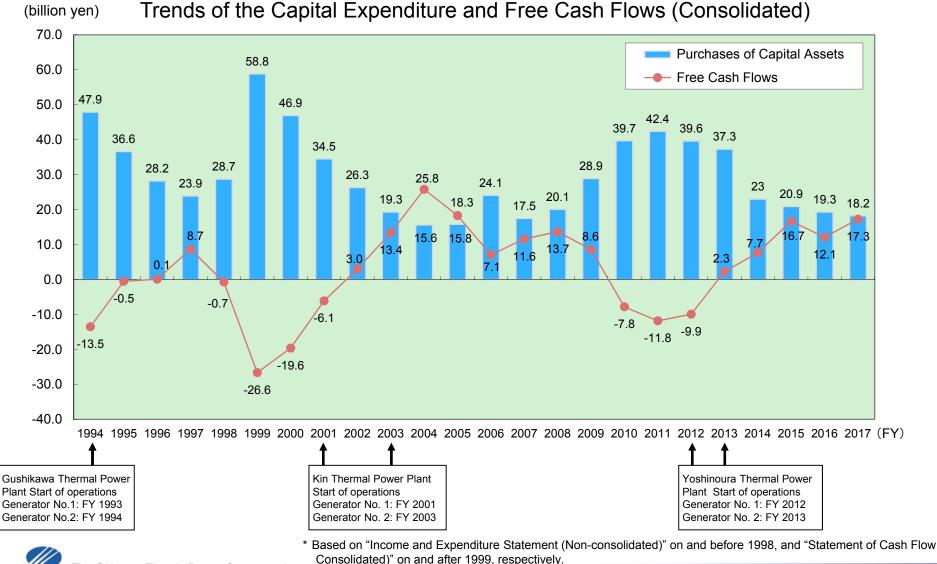




Reference 2: Trends of the Total Assets and Shareholder's equity



Reference 3: Trends of the Capital Expenditure and Free Cash Flows

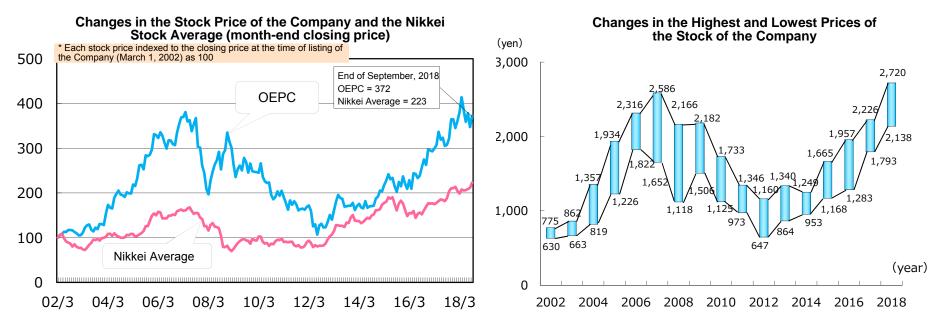


Reference 4: Change in Okinawa Electric Power's Stock Price

Recent stock price changes: from January 4, 2018 to September 28, 2018

	Okinawa Electric Power Company, Inc.	Nikkei Average
Stock price as of January 4, 2018 (closing price)	2,366 yen	23,506 yen
All-time high (closing price)	2,664 yen (+12.6%) as of Apr. 27, 2018	24,124 yen (+ 2.6%) as of Jan. 23, 2018
All-time low (closing price)	2,156 yen (-8.9%) as of Feb. 15, 2018	20,617 yen (-12.3%) as of Mar. 23, 2018
Stock price as of September 28, 2018 (closing price)	2,395 yen (+1.2%)	24,120 yen (+2.6%)

(Note) The Company implemented a stock split of 1 to 1.25 effective June 1, 2018 and its stock price prior to May 31 has been adjusted accordingly. Figures in bracket indicate percentage change in the stock price from its closing price on January 4, 2018.



(Note) The stock split was implemented six times in the indicated period (Record date :End of March 2005, End of March 2007, End of May 2015, End of May 2016, End of May 2016, End of May 2017 and End of May 2018), and adjustment has been made for the figures before the end of May 2018.

Reference 5: Earnings Per Share and Payout Ratio

Earnings per Share and Payout Ratio

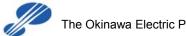
	FY	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Net income *1	Million yen	5,604	8,950	8,047	6,956	4,318	4,731	4,943	3,647	5,517	6,273
Earnings per Share *1 (Post-adjustment after stock split) *2	yen	320.54 (103.61)	512.04 (165.50)	460.58 (148.87)	398.15 (128.70)	247.20 (79.90)	270.80 (87.53)	282.99 (91.47)	139.22 (67.50)	140.41 (102.12)	147.00 (117.60)
Dividend per Share		60	60	60	60	60	60	60	60	60	60
(Post-adjustment after stock split) *2	yen	(19)	(19)	(19)	(19)	(19)	(19)	(19)	(28)	(44)	(48)
Payout Ratio ^{*1}	%	18.7	11.7	13.0	15.1	24.3	22.2	21.2	43.1	42.7	40.8
Dividend Yield	%	1.15	1.23	1.58	1.75	1.87	1.72	1.38	1.98	2.27	1.96
Price Book-value Ratio *1	х	0.83	0.72	0.53	0.45	0.41	0.44	0.52	0.54	0.68	0.84
Price Earning Ratio *1	х	16.3	9.5	8.3	8.6	13.0	12.9	15.4	21.8	18.8	20.8

*1 Net Income, EPS, Payout Ratio, PBR, PER are on a consolidated basis

*2 Shown in the brackets are numbers adjusted for the effects of past stock splits including the one conducted on June 1, 2018.

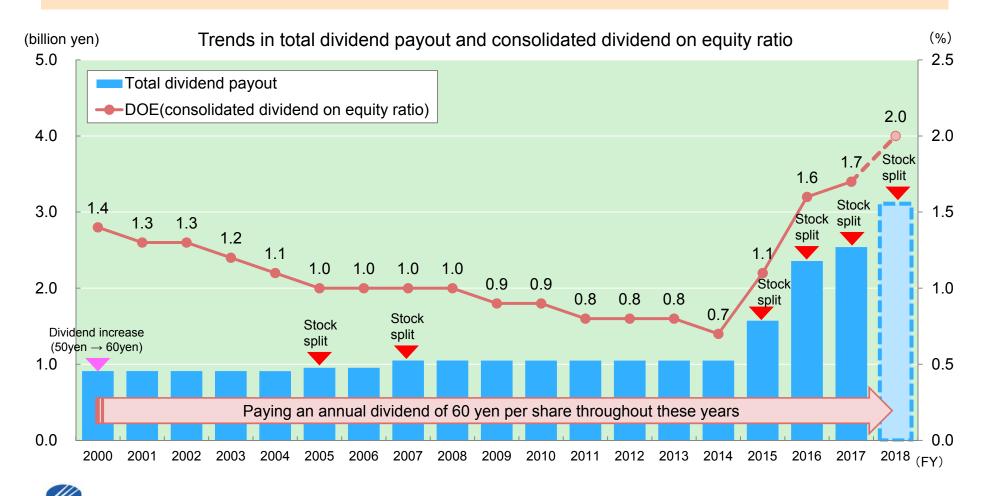
History of Stock Splits (including planned one)

Date	Issued number of shares of common stock		Date	Issued number of shares of common stock	
Feb. 10, 1992	14,728,132	Listed	Jun. 01, 2015	26,287,084	Split 1:1.5
Nov. 20, 1995	14,875,413	Split 1:1.01	Jun. 01, 2016	39,430,626	Split 1:1.5
May. 25, 1999	15,172,921	Split 1:1.02	Jun. 01, 2017	43,373,688	Split 1:1.1
May. 20, 2005	15,931,567	Split 1:1.05	Jun. 01, 2018	54,217,110	Split 1:1.25
Apr. 01, 2007	17,524,723	Split 1:1.1			



Reference 6: Policy for Returning Profits to Shareholders

- Our basic policy is to "distribute stable and continuous dividends," and we have continuously been distributing an annual dividend of 60 yen per share since 2000.
- We will make efforts to maintain "a DOE of over 2.0%," which is our new indicator.



Reference 7: Stock Split

- We implemented a stock split for four consecutive years. (Eighth time since being listed on the stock market.)
- This was to increase the actual amount of dividend per share for maintaining an annual dividend of 60 yen per share.

1. Purpose of stock split

To distribute profits back to all our shareholders and increase the liquidity of our shares

2. Method of stock split

A 1.25-for-1 stock split

3. Number of shares increasing as a result of the stock split

Total number of issued shares prior to the stock split :

43,373,688 shares Number of shares increasing as a result of the stock split : 10,843,422 shares Total number of issued shares after the stock split : 54,217,110 shares Total number of authorized shares after the stock split : 92,800,000 shares

4. Stock Split Calendar

Record date:	May 31, 2018
Effective date:	June 1, 2018

5. Expected dividend for March 2019

End of 2nd quarter	30 yen per share
End of term	30 yen per share

<Reference: Trend in Stock Splits>

Date	Issued number of shares of common stock	Ratio
Feb. 10, 1992	14,728,132	Listed
Nov. 20, 1995	14,875,413	1:1.01
May. 25, 1999	15,172,921	1:1.02
May. 20, 2005	15,931,567	1:1.05
Apr. 1, 2007	17,524,723	1:1.10
Jun.1, 2015	26,287,084	1:1.50
Jun.1, 2016	39,430,626	1:1.50
Jun.1, 2017	43,373,688	1:1.10
Jun.1, 2018	54,217,110	1:1.25



Reference 8: Repurchase of Shares

We repurchased treasury stock in accordance with the provisions in the articles of incorporation pursuant to the provisions of the Companies Act.

1. Purpose of repurchasing shares

To increase capital efficiency and implement flexible capital policy

2. Class of shares to be repurchased Common shares

3. Total number of shares to be repurchased

1,750,000 shares

4. Total purchase price for repurchase of shares

4,900,602,600 yen

5. Period of repurchase

From Nov. 29, 2017 to Dec.15, 2017

6. Method of repurchase

Market purchases including the purchase of treasury stock through the off-hours trading (ToSTNeT-3)

<Reference: Number of treasury stock held>

Date	Number of treasury stock
As of 2017.09.30	156,197 shares
As of 2018.03.31	1,906,955 shares





This document includes statements concerning future results. Such statements are based on calculations and predictions and are neither definite nor guaranteed. Please be aware that future results may change in accordance with changes in assumptions related to the management environment and the like.

[Enquiries regarding this document]

Budget & Finance Group, Accounting & Finance Department Okinawa Electric Power Company, Inc. TEL: +81-98-877-2341 FAX: +81-98-879-1317

Email : ir@okiden.co.jp

