

Note: The following report is an English translation of the Japanese-language original.

Financial Results

for the fiscal year ended March 31, 2019

May 10, 2019

Japan Petroleum Exploration Co ., Ltd.

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Agenda

I. Financial Highlights, Progress of Mid-term Business Plan Hideichi Okada Representative Director and President

II. FY3/19 Financial Results

Michiro Yamashita Director, Managing Executive Officer

III. FY3/20 Forecasts

Michiro Yamashita Director, Managing Executive Officer



I. Financial Highlights, Progress of Mid-term Business Plan

Hideichi Okada

Representative Director and President



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Summary

Financial Results for FY3/19	Operating profit 2.3bn. yen (YoY -6.4bn. yen) Profit attributable to owners of parent 14.7bn. yen (YoY +45.7bn. yen)					
in profit from diluted bitumen	with full-year operation of Soma LNG Terminal, Declined sales of affiliates, Dissipation of temporary loss recorded in					
Forecasts for FY3/20	Operating profit 5.6bn. yen (YoY +3.2bn. yen) Profit attributable to owners of parent 11.4bn. yen (YoY -3.3bn. yen)					
 ✓ Improvement in profit from diluted bitumen sales ✓ Decrease in equity in gains of affiliates, Increase in tax expenses 						

Progress of Mid-term Business Plan

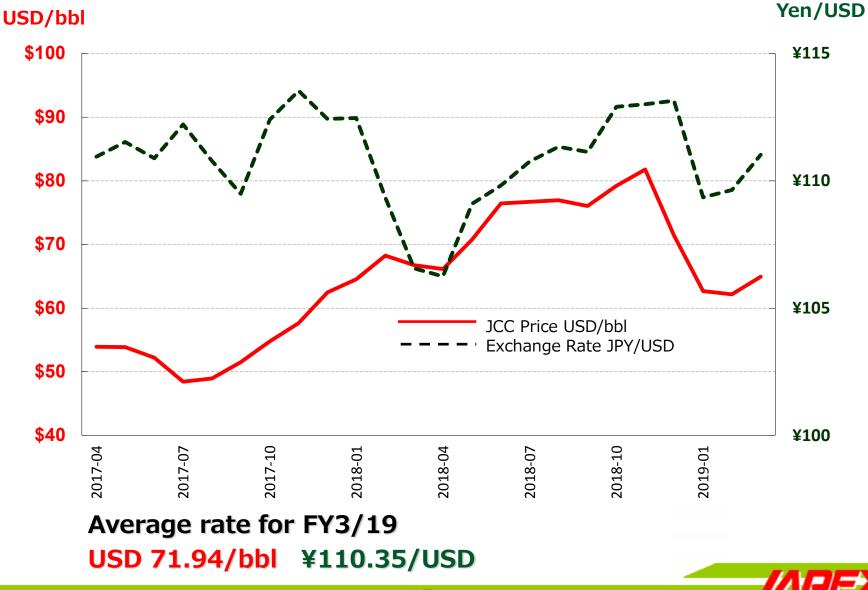
 \checkmark Steadily implementing each business to achieve Mid-term Target (ROE=>5%)

Return to Shareholders

FY3/19 annual dividend of 40 yen per share (YoY +20 yen) FY3/20 (Forecast) annual dividend of 40 yen per share (Interim 20 yen, Year-end 20 yen)

 Maintain the policy of stable dividends to shareholders, and aim for the increase of our corporate value and the shareholders return in mid-to-long term, by the improvement of financial structure and the promotion of growth investment

Trends in Crude Oil Price and Foreign Exchange Rate



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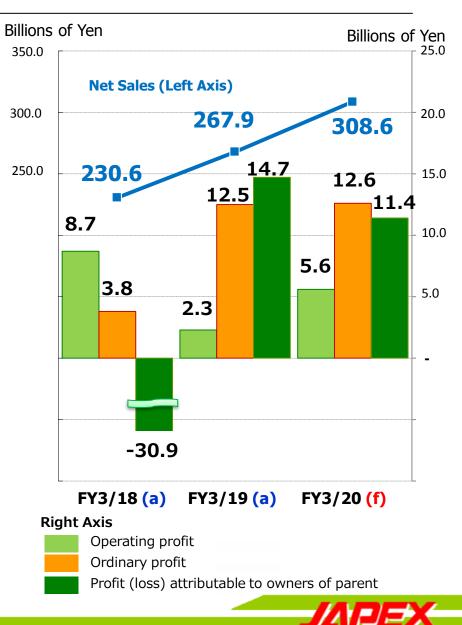
Financial Highlights - FY3/19 Results and FY3/20 Forecasts

FY3/19 Results (YoY)

Billions of Yen	FY3/18 (a)	FY3/19 (a)	Change	
Net sales	230.6	267.9	+37.3	+16%
Operating profit	8.7	2.3	-6.4	-73%
Ordinary profit	3.8	12.5	+8.6	+227%
Profit (loss) attributable to owners of parent	-30.9	14.7	+45.7	- %
JCC (USD/bbl)	56.20	71.94	+15.74	+28%
Exchange rate (Yen/USD)	111.67	110.35	-1.32	-1%

FY3/20 Forecasts (YoY)

Billions of Yen	FY3/19 (a)	FY3/20 <mark>(f)</mark>	Change	
Net sales	267.9	308.6	+40.6	+15%
Operating profit	2.3	5.6	+3.2	+142%
Ordinary profit	12.5	12.6	+0.1	+1%
Profit (loss) attributable to owners of parent	14.7	11.4	-3.3	-22%
JCC (USD/bbl)	71.94	65.00	-6.94	-9%
Exchange rate (Yen/USD)	110.35	110.00	-0.35	-0%



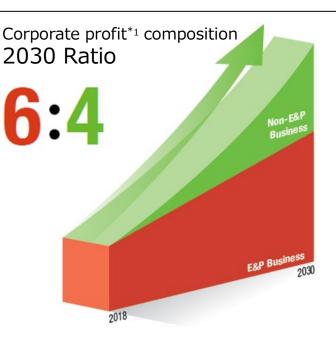
Long-term Vision and Mid-term Business Plan

Long-term Vision 2030 "Growth to the Integrated Energy Company Utilizing Our Oil and Gas E&P and Its Supply Basis"

The profit composition JAPEX aims for in 2030 E&P Business : Non-E&P Business = 6 : 4

Mid-term Business Plan 2018-2022

Achieve ROE=>5% level with the assumption of crude oil prices of USD60/bbl

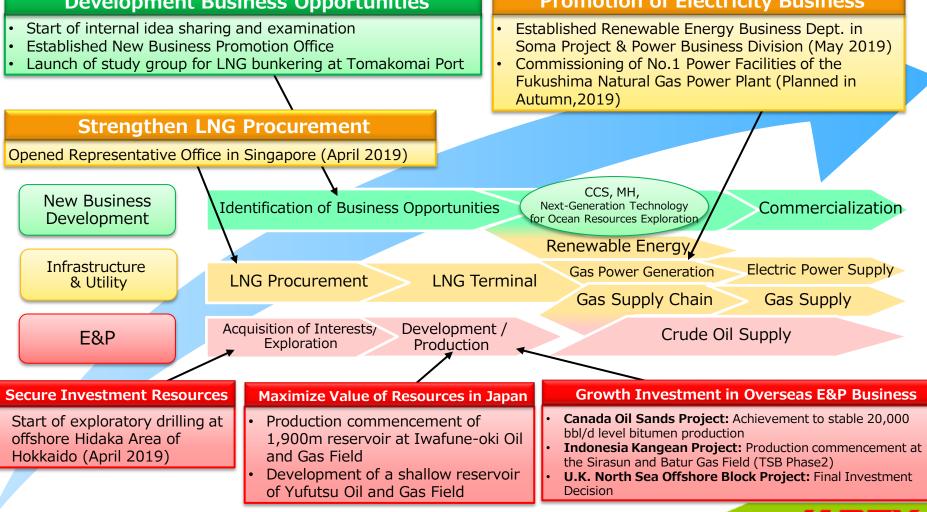




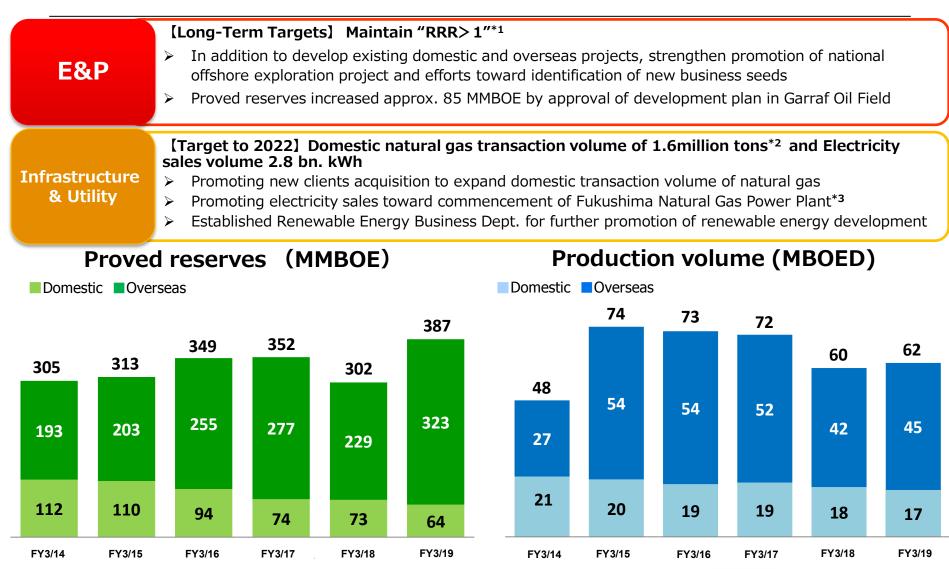
*2 RRR: Reserve Replacement Ratio

Progress of Mid-term Business Plan from FY3/19 onward

Develop businesses that make use of our value chain to achieve Mid-term Business Plan
Development Business Opportunities
Promotion of Electricity Business



Quantitative Targets of Mid-term Business Plan



*1 RRR= Increase in reserves (during certain period)/Production volume

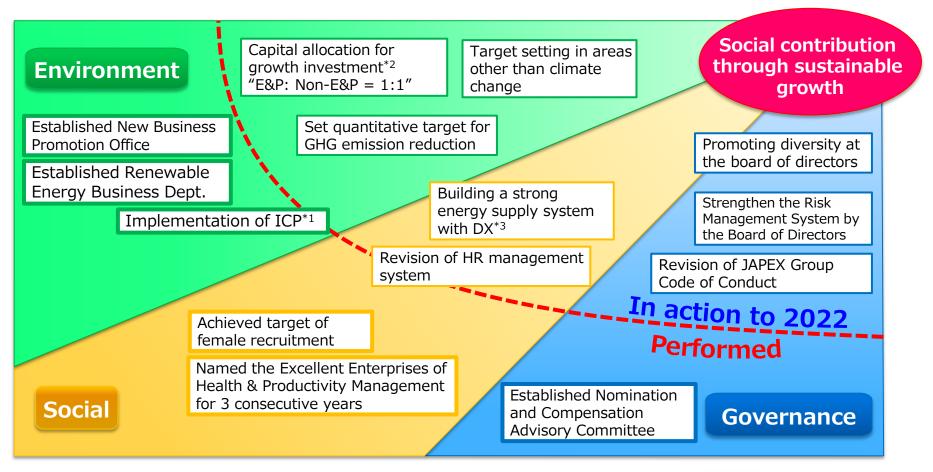
*2 LNG equivalent

*3 Owned by Fukushima Gas Power Co., Ltd. (JAPEX investment ratio 33%)

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ESG Promotion

Accelerating concrete actions to ESG issues and improvement disclosure

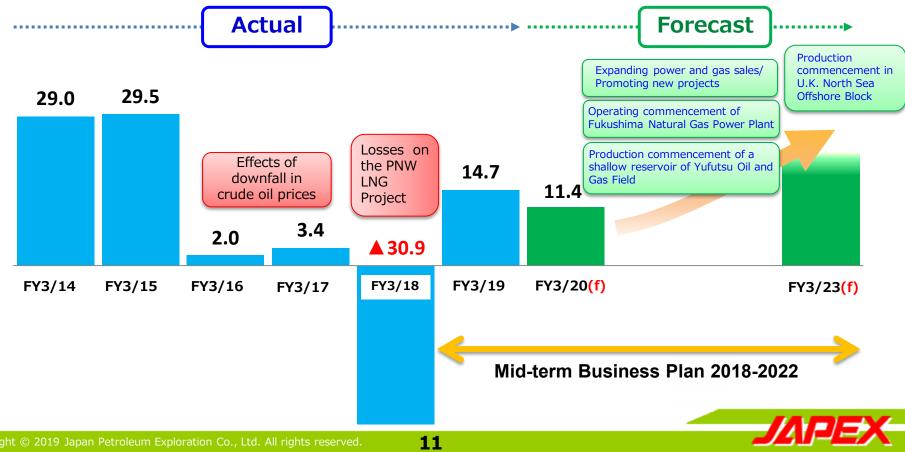


- *1 Incorporate internal carbon pricing into our investment criteria
- *2 Invest about half of new investment resources in non-E&P business such as renewable energy and new business
- *3 DX: Digital transformation

Toward Achievement of Profit Target

To achieve ROE=>5% in fiscal 2022 and "Growth to the Integrated Energy Company" stated in Mid-term business plan, further improve economic efficiency in existing projects and accelerate promotion of new business in business each areas.

History and forecast of Profit attributable to owners of parent (Billions of Yen)



Financial Position and Capital Allocation Policy

Consolidated financial position as of FY3/19 end

Cash and deposits *1 :	¥88.1bn.
Investment securities	: ¥137.7bn.
Debt ^{*2} :	¥ 151.7bn.
EBITDA ^{*3} :	¥ 41.7bn.
Debt/EBITDA ratio :	Approx. 3.6

2019-2022 capital allocation

- Investment in existing projects^{*1} : Approx. ¥ 60.0bn.
- ② Debt repayment : Approx. ¥ 55.0bn.
- ③ Growth investment : Approx. ¥65.0bn.
- ④ Return to Shareholders^{*4} : Approx. ¥ 9.0bn. +a

2022 target

- Balance of interest-bearing debt to approx. ¥ 100 to 120 bn.
- Maintain Debt/EBITDA <2 and promote growth investment
- Expand shareholder returns in the medium to long term

To achieve ROE=>5%,

promote below measures considering high volatility of oil and gas prices :

- **1** Investment of necessary capital to improve profitability of existing projects
 - Improvement of profitability on 2 projects in Canada as top priority, including continuous investments for production increase on shale gas project in Canada
- 2 Secure capital for new investment under financial discipline of "Debt/EBITDA< 2"
- **3** Growth investment with capital allocation of "E&P : non-E&P =1 : 1"
- **(4)** Maintain the policy of stable dividends to shareholders, and aim for the increase of our corporate value and the shareholders return in mid-to-long term, by improving financial structure and promoting growth investment
- **5** Conduct verification for continuation of cross-shareholdings, in points of benefit, risks, and capital costs
 - Considering expected return from holding stocks, and role for buffer of funds.

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- *2 Debt stated herein includes lease obligations, retirement benefit liabilities and contingent liabilities
- *3 EBITDA is the total of operating income, depreciation, interest and dividends received
- *4 Shareholder return is based on the assumption that FY3/20 dividend forecast will continue



^{*1 &}quot;Cash and deposits" and "Investment in existing projects" do not include approx. ¥29.3 bn. of funds reserved in Garraf project subsidiary company and the reinvestment amount to achieve 230,000 bbl/d in the Garraf Project.

II. FY3/19 Financial Results

Michiro Yamashita Director, Managing Executive Officer



FY3/19 Results Overview

Dillions of Ven	FY3/19							
Billions of Yen	Initial forecasts (May 11,2018) <mark>(f)</mark>	Revised forecasts (Aug. 8,2018) (f)	Revised forecasts (Nov. 9,2018)(f)	Revised forecasts (Feb.12,2019)(f)	(a)			
Net sales	265.6	284.0	288.3	282.3	267.9			
Operating profit	0.6	2.1	0.5	0.3	2.3			
Ordinary profit	9.9	10.0	12.3	9.8	12.5			
Profit (loss) attributable to owners of parent	9.4	11.0	12.3	12.4	14.7			
Assumptions								
JCC price (USD/bbl)	60.00	69.50	73.75	70.45	71.94			
Exchange rate (JPY/USD)	110.00	109.39	109.60	110.19	110.35			

Initial forecast (May 2018) Revised forecast (August 2018) Revised forecast (November 2018)

[+] Increase in sales price, sales volume of purchased crude oil from overseas, equity in gains of affiliates

[-] Decrease in profit from diluted bitumen sales, Fluctuation in foreign currency exchange gains/losses

Revised forecast (November 2018) Revised forecast (February 2019) Actual result (May 2019)

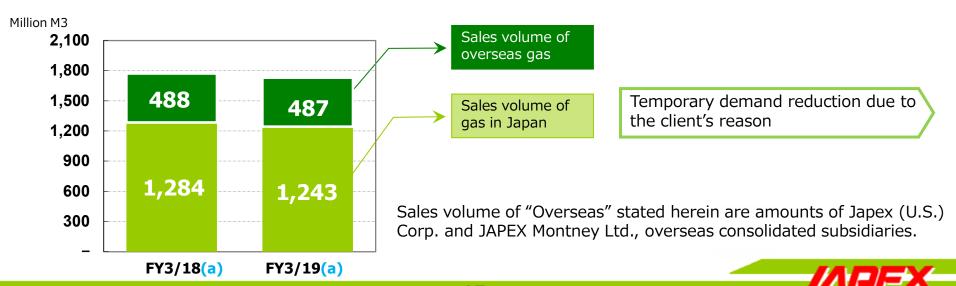
- [+] Tax reduction due to application of foreign tax credit on Garraf Project, Increase in gas sales volume in Japan, Increase in sales price
- [-] Decrease in sales price, Widen the price differential of WCS to WTI, Fluctuation in foreign currency exchange gains/losses



Natural Gas Sales for FY3/19 (year-on-year)

Sales volume : Million M3 Net sales : Million Yen		FY3/18 (a)	FY3/19 (a)	Change			
Natural gas	Sales volume	1,773	1,731	-41	· · · · ·		
Natural gas Net sales		60,431	67,820	+7,388	Increase in sales price in Japan		
Sales volume by region							

Japan	Sales volume	1,284	1,243	-40
Gas produced in Japan	Sales volume	(739)	(630)	-108
Overseas	Sales volume	488	487	-1



Crude Oil Sales for FY3/19 (year-on-year)

Sales volume : Thousand Net sales : Million Yen	I KL	FY3/18(a)	FY3/19(a)	Change	
Crude oil	Sales volume	2,506	3,064	+558	
	Net sales	93,685	124,696	+31,010	Increase in sales price
Equity oil sales					
Crude oil produced	Sales volume	291	261	-30	
in Japan ^{*1}	Net sales	12,265	13,746	+1,481	
Crude oil produced	Sales volume	991	366	-625	Decrease in crude oil sales volume of Garraf Oil Field, Iraq
in overseas ^{*2}	Net sales	33,749	16,599	-17,149	
Diluted bitumen*3	Sales volume	160	1,176	+1,015	Commencement of diluted bitumen sales of the Hangingstone lease in
	Net sales	4,512	30,116	+25,603	3Q of 2017
Oil price and exchan	ge rate assu	mptions			*1 Sales volume and net sales of "Crude oil produced in Japan" stated herein do not include
JCC	USD/bbl	56.20	71.94	+15.75	purchased crude oil *2 Sales volume and net sales of "Crude oil
Diluted bitumen*3	USD/bbl	39.63	36.67	-2.96	produced in overseas" stated herein are amounts of 3 overseas subsidiaries (Japex (U.S.) Corp., JAPEX Montney Ltd. and Japex Garraf Ltd.)
Exchange rate	JPY/USD	111.67	110.35	-1.32	*3 Royalty is excluded in the net sales and price of diluted bitumen



FY3/19 Results (year-on-year)

				Main factors for change Increase factor "+" / Decrease factor "()"
[Million Yen]	FY3/18(a)	FY3/19(a)	Change	Gross profit Domestic business (¥4.0 bn.) Overseas consolidated subsidiaries
Net sales	230,629	267,980	+37,350	(¥0.4 bn.)
Gross profit	39,263	34,846	-4,416	SG & A expenses Increase in transportation cost of the
Exploration expenses	1,324	788	-535	Hangingstone lease (¥2.3 bn.)
SG&A expenses	29,173	31,743	+2,570	Non-operating income (expenses) Equity in earnings of affiliates + ¥15.1 bn.
Operating profit (loss)	8 764 2 313 -6 451 For	Foreign currency translation adjustments on debt, foreign currency exchange gains and		
Non-operating income (expenses)	-4,936	10,209	+15,146	losses (FY3/18 Gains of ± 2.7 bn. \rightarrow (FY3/19)Loss of ± 5.2 bn. (± 8.0 bn.)
Ordinary income	3,828	12,523	+8,695	(FY3/18) Decrease in amortization expense related to the Hangingstone DEMO area
Extraordinary income (losses)	-73,231	550	+73,782	+ ¥7.7 bn.
Income taxes	240	-1,254	-1,493	Extraordinary income (loss) (FY3/18) Impairment loss spikes due not
Profit (loss) attributable to non-controlling interests	-38,683	-441	+38,242	proceeding LNG Project in Canada + ¥72.9 bn. (FY3/19) Gains on sales of real estate
Profit (loss) attributable to owners of parent	-30,959	14,770	+45,729	+ ¥0.7 bn.

III. FY3/20 Forecasts

Michiro Yamashita Director, Managing Executive Officer



Price Assumptions for FY3/20 Forecasts

U							
Lo	020	Full year					
JanMar.	JanMar. AprJun. JulSep. OctDec. JanMar.						

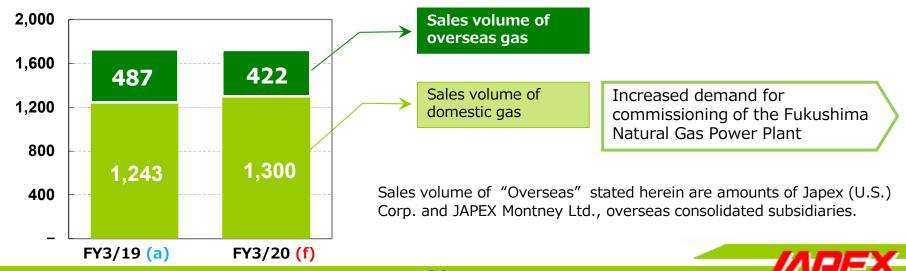
WTI	USD/bbl	2018(a)	62.87	67.88	69.50	58.75		64.75
VV I I	030/001	2019 <mark>(f)</mark>	53.69	55.33	55.00	55.00		54.76
JCC	USD/bbl	2018(a)		67.95	76.64	79.05	65.06	71.94
JCC	וטטקטכט	2019 <mark>(f)</mark>		65.00	65.00	65.00	65.00	65.00
Exchange rate		2018(a)		107.42	110.61	112.41	110.66	110.35
Exchangerate		2019 <mark>(f)</mark>		110.00	110.00	110.00	110.00	110.00
JACOS	USD/bbl	2018(a)	33.48	43.05	41.08	25.76		36.67
Diluted bitumen ^{*1}	000/001	2019 <mark>(f)</mark>	37.23	35.79	33.51	33.55		35.01
JML	CAD/mcf	2018(a)	2.04	1.21	1.42	2.11		1.69
Natural gas ^{*2}		2019 <mark>(f)</mark>	1.70	1.70	1.70	1.70		1.70

*1 "JACOS Diluted bitumen" stated herein is the diluted bitumen sales price of Japan Canada Oil Sands Ltd. (Excl. Royalty). *2 "JML Natural gas" stated herein is the natural gas sales price of JAPEX Montney Ltd. (Excl. Royalty)

Natural Gas Sales Forecasts for FY3/20

Sales volume : Million M3 Net sales : Million Yen		FY3/19 (a)	FY3/20 <mark>(f)</mark>	Change	
Natural dae	Sales volume	1,731	1,722	-9	
Natural gas	Net sales	67,820	69,531	+1,711	Increase in sales volume in Japan
Sales volume by	region		· · · · · · · · · · · · · · · · · · ·		
Japan	Sales volume	1,243	1,300	+56	
Gas produced in Japan	Sales volume	(630)	(561)	-69	
Overseas	Sales volume	487	422	-66	

Million M3



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Crude Oil Sales Forecasts for FY3/20

Sales volume : Thousand KL Net sales : Million Yen		FY3/19 (a)	FY3/20 (f)	Change	
	Sales volume	3,064	4,512	+1,448	
Crude oil	Net sales	124,696	168,257	+43,561	Increase in sales volume
Equity oil sales					
Crude oil produced	Sales volume	261	265	+4	
in Japan ^{*1}	Net sales	13,746	12,463	-1,284	
Crude oil produced in overseas ^{*2}	Sales volume	366	1,339	+972	Increase in crude oil sales
	Net sales	16,599	55,235	+38,636	volume of Garraf Oil Field, Iraq
Diluted bitumen*3	Sales volume	1,176	1,516	+340	Increase in sales volume of the
	Net sales	30,116	36,717	+6,600	Hangingstone lease

Oil price and exchange rate assumptions

JCC	USD/bbl	71.94	65.00	-6.94
Diluted bitumen*3	USD/bbl	36.67	35.01	-1.66
Exchange rate	JPY/USD	110.35	110.00	-0.35

*1 Sales volume and net sales of "Crude oil produced in Japan" stated herein do not include purchased crude oil.
*2 Sales volume and net sales of "Crude oil produced in overseas" stated herein are amounts of 3 overseas subsidiaries (Japex (U.S.) Corp., JAPEX Montney Ltd. and Japex Garraf Ltd.).
*3 Royalty is excluded in the net sales and price of diluted bitumen.

FY3/20 Forecasts

[Million Yen]	FY3/19 (a)	FY3/20 <mark>(f)</mark>	Change
Net sales	267,980	308,650	+40,670
Gross profit	34,846	37,783	+2,937
Exploration expenses	788	1,054	+265
SG&A expenses	31,743	31,126	-618
Operating income (loss)	2,313	5,603	+3,289
Non-operating income (expenses)	10,209	7,067	-3,142
Ordinary income	12,523	12,670	+147
Extraordinary income (losses)	550	-78	-628
Income taxes	-1,254	1,883	+3,138
Profit (loss) attributable to non-controlling interests	-441	-704	-262
Profit (loss) attributable to owners of parent	14,770	11,413	-3,357

Main factors for change Increase factor "+" / Decrease factor "()"

Gross profit

Domestic business (¥2.9bn.) Overseas consolidated subsidiaries +¥5.8bn.

Non-operating income (expenses) Equity on earnings ($\pm 5.5bn.$) Foreign currency translation adjustments on debt, foreign exchange gains and losses (FY3/19) Loss of $\pm 5.2bn.$ \rightarrow (FY3/20) Not expected $\pm \pm 5.2bn.$ (FY3/19)Gains of ARO cancellation due to selling interests of the Hangingstone lease ($\pm 3.2bn.$)

Income taxes (FY3/19) Application of foreign tax credit on Garraf Project (¥2.6bn.) Tax effect of U.K. North Sea Offshore Block Project +¥1.7bn.



Sensitivities Analysis on FY3/20 Forecasts basis

	FY3/20 Assumptions Fluctuation		Impacts on profit (Million Yen)		
			Operating income	Profit attributable to owners of parent	Main factors for change Increase factor "+" / Decrease factor "()"
	JCC		500	420	+ Sales of oil and gas
Crude oil price	USD 65.00 /bbl	Increase by USD1/bbl	500	420	(Increase of LNG procurement cost)
	WTI USD 55.00/bbl		263	248	+ Sales of diluted bitumen
Exchange	¥ 110.00/USD	1 weaker yen	360	200	+ Sales of oil and gas
rate	¥ 110.00/03D	against USD	500	200	(Increase of LNG procurement cost)
Natural gas price in Canada	CAD 1.70 /mcf ¥ 82.00 /CAD	Increase by CAD1/mcf	390	290	 + Sales of shale gas in Canada (Increase of operation cost of the Hangingstone lease)

- Changes in equity method investment gain is not included in the above amount.
- In addition to the impact of exchange rate fluctuations shown on the above, translation adjustments of foreign-currencydenominated receivables and payables also occur. Actual profits are influenced by a variety of other factors besides crude oil prices and exchange rates.

Appendix





<Appendix> E&P Business-1 Main Projects

Canada Oil Sands Project (Production)

Canada Shale Gas Project (Production / Development)

U.K. North Sea Offshore Block (Development)

> Iraq Garraf Project (Production / Development)

Russia Sakhalin-1 Project (Production / Development)

Oil and Gas Fields in Japan (Production / Development)

United States Tight Oil Project (Production / Development)

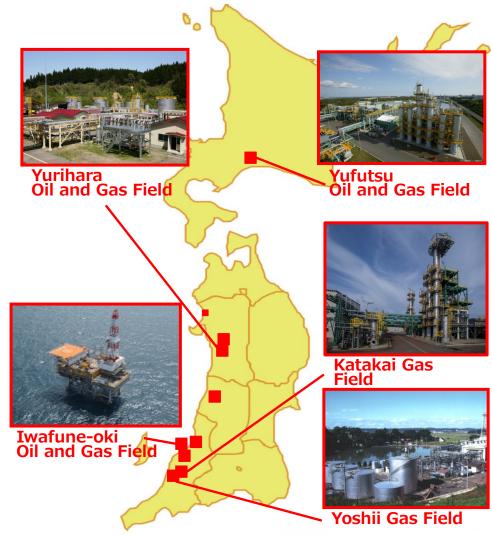
Indonesia Kangean Project (Production)

Blocks owned by our consolidated subsidiaries or equity-method affiliates

<Appendix> E&P Business-2 Activities in Japan

- Operating 10 oil and gas fields in Japan
- Pursuing compensation of reserves and maintaining the production volume
- Pursuing additional E&P potential including national surveys

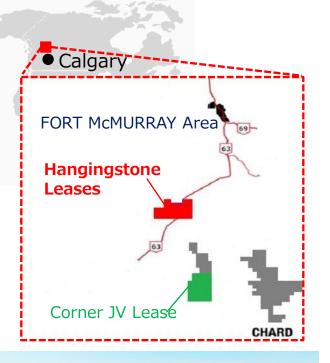
Major projects in progress		
Development of a	In process of development	
shallow reservoir of	toward production	
Yufutsu Oil and Gas	commencement in fiscal	
Field	2020	
1,900m reservoir at	Completed drilling work and	
Iwafune-oki Oil and	commenced production in	
Gas Field	late March of 2019	
Exploratory Drilling as National survey in Hokkaido	Commencement of exploratory drilling at offshore Hidaka Area in April 2019	





<Appendix> E&P Business-3 Canada: Oil Sands Project

Project company		nada Oil Sands Co., Ltd. (CANOS) Derator : Japan Canada Oil Sands Ltd. (JACOS)		
Block & Interest	Hangingstone Leases 75% interests (Operator)	In Production		
/ Status	Corner JV Lease 12% interests	Undergoing appraisal		
	Other bitumen leases (includes Corner & Chard)	Considering future activities		
Gross production rate	26,000bbl/d as of March 2019	6,000bbl/d as of March 2019		
Recent activities	North in January 2018	Sold 100% interests of Hangingstone DEMO area in		
Schedul	e of Hangingstone Project			
February 201	Commenced development work	Commenced development works (early civil work)		
February 201	Completed construction of facili	Completed construction of facilities		
April 2017	Commenced steam injection to	Commenced steam injection to horizontal well pairs		
August 2017	Commenced production			
June 2018	Transition to stable 20,000 bbl/ production	d level bitumen		







<Appendix> E&P Business-4 Canada: Shale Gas Project

Project company	JAPEX Montney Ltd. (JML) JAPEX's share 45%	Pacific NorthWest LNG JML's share10%	Calgary
company	Upstream: Shale gas project	Midstream: LNG project	
Block	North Montney Area	Lelu Island, the Port of Prince Rupert	The North Montney Area (Production & Development)
Interest	10%	10%	
Status	Production/Development	-	Vancouver Calgary
Operator	PETRONAS group	PETRONAS group	
Gross production rate	12,980,000M3/d Approx. 85,000 boe/d as of March 2019	-	
Recent activities	Executing the development plan prioritizing the area with high economics. Working on to maximize the value and economics of the project.	Decided not to proceed with the LNG project on July 25,2017	



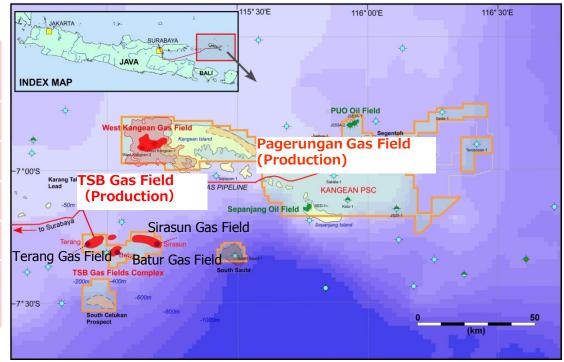
<Appendix> E&P Business-5 Iraq: Garraf Project

Project company	Japex Garraf Ltd. JAPEX's share 55%	
Field	Garraf Oil Field	
Project share	30% (cost share 40%)	Baghdad
Status	Production / Development	Garraf Oil Field
Operator	PETRONAS group	Samawah
Gross production rate	Approx. 90,000 bbl/d as of March 2019	Nasiriyah Basrah
■ Schedule		
2013	First oil production	
2018	Commencement of further development due to approval of the Final Development plan by the Iraqi government	
2018 - 2020	Gradual increase the production rate	
2020 4Q	Achievement of plateau production target 230,000 bbl/d	of



<Appendix> E&P Business-6 Indonesia: Kangean Project

Project company	Energi Mega Pratama Inc. JAPEX's share 25% 2 other affiliates
Block	Kangean Block
Interest	100%
Status	Production
Operator	Kangean Energy Indonesia Ltd.
Gross production rate	4,400,000M3/d Approx. 27,000boe/d as of March 2019



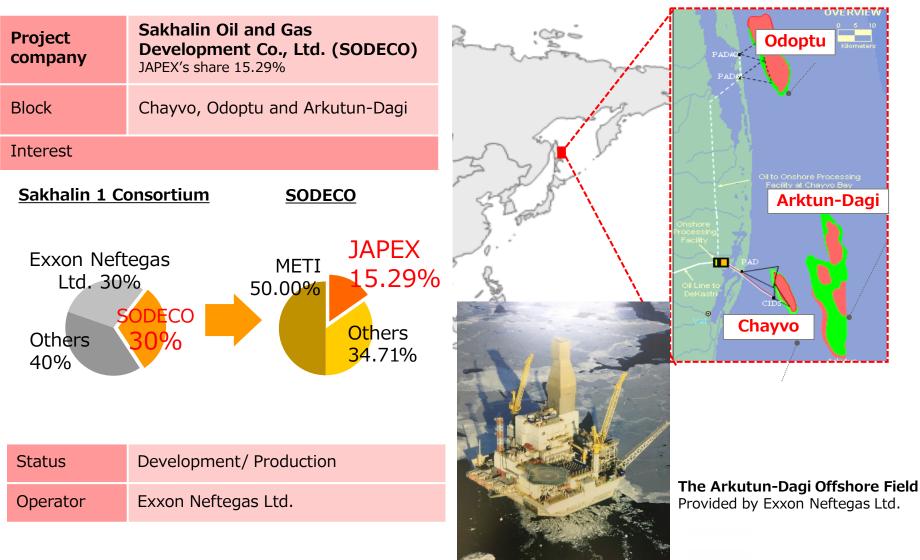
History of TSB Gas Field Development

2012	Commencement of production at the Terang Gas Field (TSB Phase1)
March 2019	Commencement of production at the Sirasun and Batur Gas Field (TSB Phase2)





<Appendix> E&P Business-7 Russia: Sakhalin-1 Project





<Appendix> E&P Business-8 U.K. North Sea Offshore Block

Project company	JAPEX UK E&P Ltd. JAPEX's share 100%
Block	Seagul Field
Interest	15%
Status	Development
Operator	Neptune E&P UKCS Limited

■ Schedule

March 2014	Acquisition of interest in exploration license
November 2015	Success of flow test in appraisal well
March 2019	Final Investment Decision
By the end of 2021	Planned commencement of production



<Appendix> Infrastructure & Utility Business-1 Natural Gas Supply Chain in Japan

JAPEX establish an integrated supply structure for natural gas (gas integration), from gas field development and production (upstream) through transportation (midstream) by pipeline and other means including railway tank containers, tank trucks and coastal tankers to supply and sale to electric power providers and local distribution companies, as well as industrial customers (downstream).

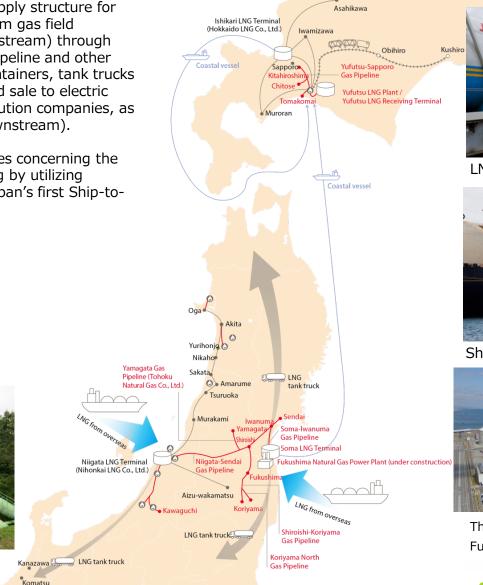
Additionally, we launch the studies concerning the implementation of LNG bunkering by utilizing pioneering expertise including Japan's first Ship-to-Ship LNG transfer experience.



LNG tank truck



Arch bridge of Niigata-Sendai Gas Pipeline



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LNG tank containers by railway



Ship-to-Ship work in Tomakomai



The Soma LNG Terminal and the Fukushima Natural Gas Power Plant



<Appendix> Infrastructure & Utility Business-2 Natural Gas-Fired Power Generation Project

The overview of Fukushima Natural Gas Power Plant

Head Office	Fukushima Gas Power Co., Ltd.* (Founded April 2015)
Method	Gas Turbine and Steam Power (Gas Turbine Combined-cycle)
Capacity	1.18 million kW (2 units of 0.59 million kW)
Fuel	Natural Gas (Vaporized LNG) Amount 700,000-1,000,000t/y (Utilization Ratio 60%-90%)
Thermal Efficiency	Sending End 60.64% (LHV, Temperature 15°C)
Gas Turbine	1,500°C Class
Steam Turbine	Steam Condition (High-pressure/ Medium-pressure/ Low-pressure) 600/600/284°C 15.6/3.34/0.5MPa
Heat Recovery Boiler	Steam Flow 370/85/50t/h NOx Emission concentration Less than 5ppm
■ Schedule	
October 2016	FID
June 2017	Approved Environmental Assessment
October 2017	Commencement of construction

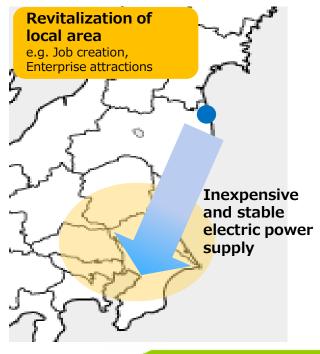
2019Commissioning of No.1 Power Facilities is planned in Q32020Commencement of commercial operations planned

(No.1 Gas Turbine : Q1, No.2 Gas Turbine: Q2)

*Investment ratio: **JAPEX 33%**, Mitsui & Co., Ltd. 29%, Osaka Gas Co., Ltd. 20%, Mitsubishi Gas Chemical Co., Inc. 9%, Hokkaido Electric Power Co., Inc. 9%



Rendering of the Soma LNG Terminal and the Fukushima Natural Gas Power Plant





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<Appendix> New Business Development

CCS (Carbon Dioxide Capture and Storage)

Implementing a CCS demonstration project in the Tomakomai area of Hokkaido since April 2012, through Japan CCS Co., Ltd. (JCCS). Cumulative CO_2 injection was 235,598 tons as of the end of March 2019.

Methane Hydrate

Implemented the second offshore methane hydrate production test from 2017, through Japan Methane Hydrate Operating Co., Ltd. Currently, working on investigating, researching and developing technology for resource recovery, exploration and other areas related to shallow-type methane hydrate.

Innovative Technology for Deep Sea Resources

Establishing a business model for exploration and/or development of deep sea mineral resources as a private sector through J-MARES (Research and Development Partnership for Next-Generation Technology of Marine Resources Survey)



Ground facilities of CCS Demonstration Project at Tomakomai



Collected deposit samples with pellets of polymetallic nodules at sea bottom of deeper than 5,000m water depth

(Cabinet Office of Japan, SIP "Innovative Technology for Exploration of Deep Sea Resources" ; News Letter Vol.6, Mar. 2019)



Abbreviations

- BOE(D) Barrels of Oil Equivalent (per Day)
- CCS Carbon dioxide Capture and Storage
- CIF Cost, Insurance and Freight
- COP Conference Of the Parties
- CSR Corporate Social Responsibility
- E&P Exploration and Production
- FID Final Investment Decision
- GHG Greenhouse Gas
- HSE Health, Safety and Environment
- IOR (EOR) Improved (Enhanced) Oil Recovery
- JCC Japan Crude Cocktail
- JOGMEC Japan Oil, Gas and Metals National
- Corporation
- LNG Liquefied Natural Gas
- MH Methane Hydrate
- P/L Pipeline
- ROE Return on Equity
- RRR Reserve Replacement Ratio
- SODECO Sakhalin Oil & Gas Development Co., Ltd.
- TSB Terang, Sirasun, Batur
- WCS Western Canadian Select
- WTI West Texas Intermediate

Cautionary Statement

This document contains future prospects such as plans, forecasts, strategies, and others which are not historical fact and these are made by the management's judgement based on the obtainable information at the time of the disclosure. Actual results may significantly differ from those future prospects due to various factors.

This document is not intended to invite investment.

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Note: Abbreviations used herein are as follows:

- (a) = Actual results
- (f) = Forecasts
- FY = Fiscal Year (FY3/19, for instance, means 12 months ended March 31, 2019)

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