Security Code Tokyo 5020

## JX Holdings IR Materials

1. Second Medium-Term Management Plan (FY2013-2015) and Long-Term Vision (FY2020)

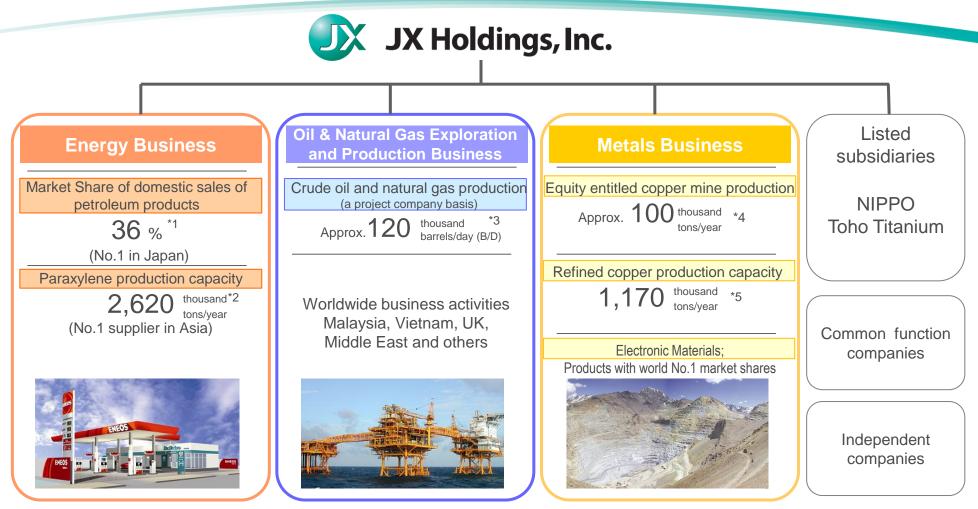
Become a world's leading integrated energy, resources and materials business group -Start a leap forward-

November, 2013



## **Businesses Summary of JX Group**





\*1 FY 2012actual

- \*2 As of Mar. 2013
- \*3 Crude Oil Equivalent (Average daily production from Jan. to Dec. 2012)
- \*4 Production from Jan. to Dec 2012
- \*5 Pan Pacific Copper(66.0% equity stake); 610 thousand tons/year + LS-Nikko Copper(39.9% equity stake); 560 thousand tons/year (As of Mar. 2013)



1. Summary of 1st Medium-Term Management Plan (FY2010-2012)	3 - 5
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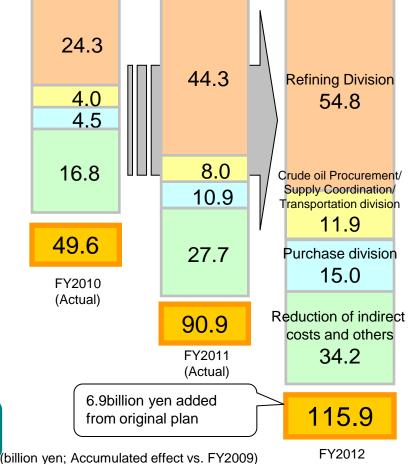
Policy 1 : Dramatical Transformation in Petroleum Refining & Marketing Business



## ✓ Capacity Reduction Plan

(J) 200	X) 08.Dec.	2014.Apr.		Ref. Japan 2008.Dec.	2014.Apr.
1	,790 ⇒	1,210 thousand	BD	4,830 ⇒	3,720 thousand BD
	Refinary	Due Date	Reduction	n Capacity	Completion
STEP1	Toyama	March, 2009	(60)	thousand B/D	
	Kashima	May, 2010	(21)		<b>N</b>
	Oita	May, 2010	(24)		<b>▼</b>
	Mizushima	June, 2010	(110)		<b>N</b>
	Osaka	October, 2010		Convert to expor refinery	tation
	Negishi	October, 2010	(70)		
	Subto	tal	(400)		
STEP 2	Muroran	March, 2014	(180)		
	Tota	al	(580)		
Copyright	ର 2013  ୪ ୮୦	ldings, Inc. All Rights	Reserved		onded to Sophisticatio y Supply Structure Ac

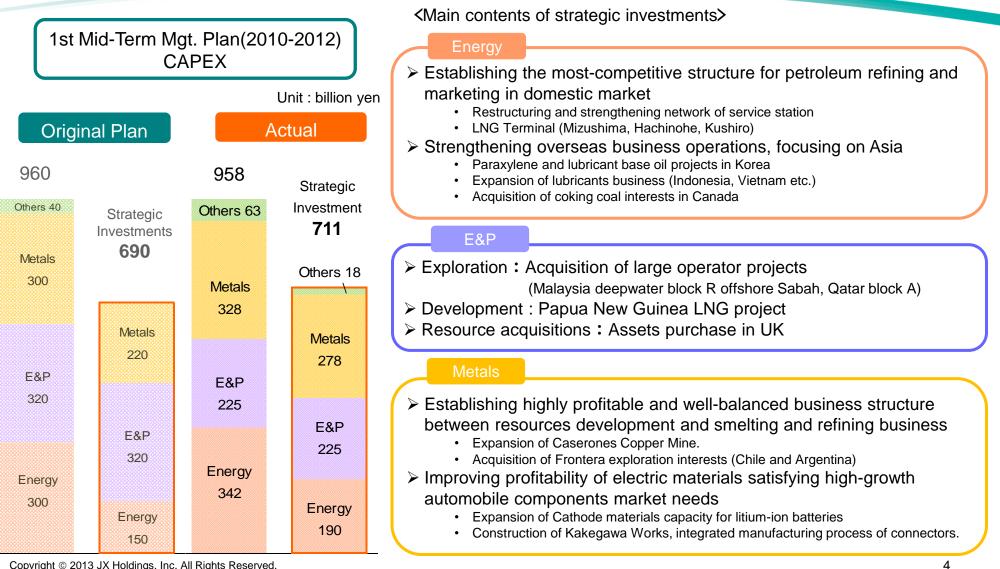
#### Integration Synergies and Enhanced Efficiency of Refineries



(Actual)

1. Summary of 1<sup>st</sup> Medium-Term Management Plan

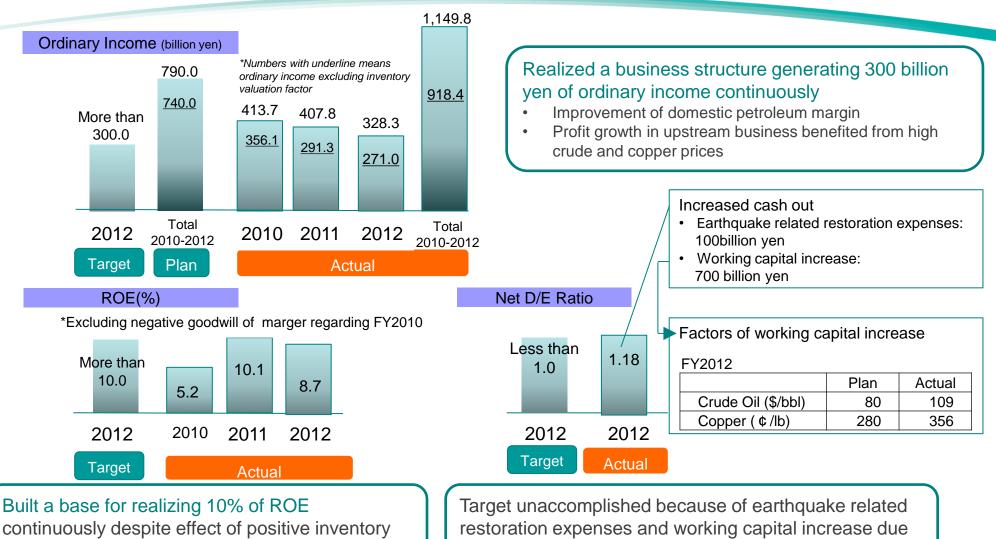
Policy 2 : Allocate Management Resources to Highly Profitable Operations on a Priority Basis



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## **Review of Target**





to crude and copper price rise

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valuation

# **Business Environment**



## ★Domestic Environment

- Population decrease and deindustrialization hold economic growth low
- Structural decline of petroleum products demand continues
- Reformulation of energy policy by Japanese government progresses

## ★Worldwide Environment

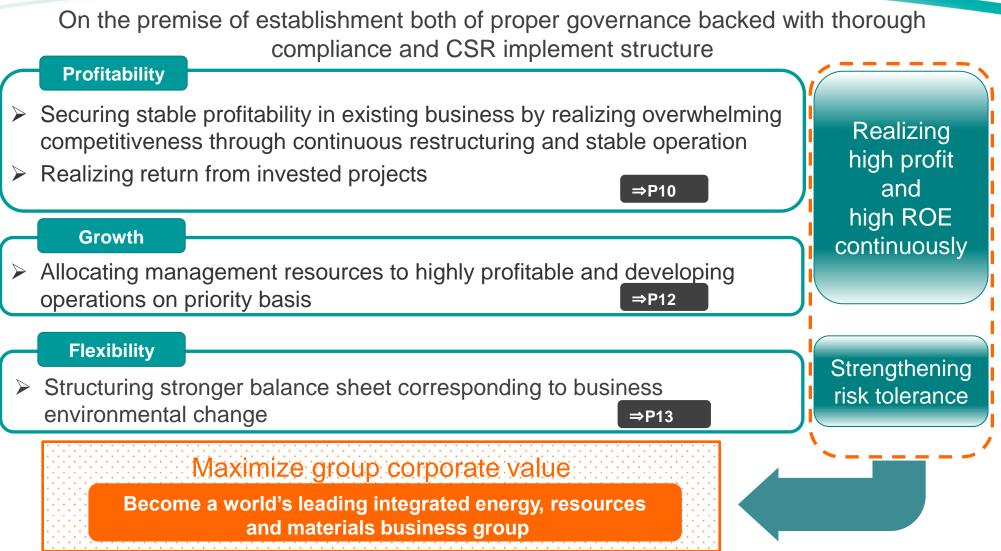
- Emerging countries lead growth, globalization and Information Technology proceeds
- Demand of energy, resources, materials expands mainly in Asia
- Resources and energy prices stay high, but volatile.
- Shale gas and oil revolution makes progress.
- Concerns over global environmental problems increase, and movement to low-carbon and recycling-oriented society progresses

Uncertainty of business environment increases around energy, resources and materials business.

2. Outline of 2<sup>nd</sup> Medium-Term Management Plan

## **Basic Policy**





# Key Factors and Targets

Key Factors (FY2015)

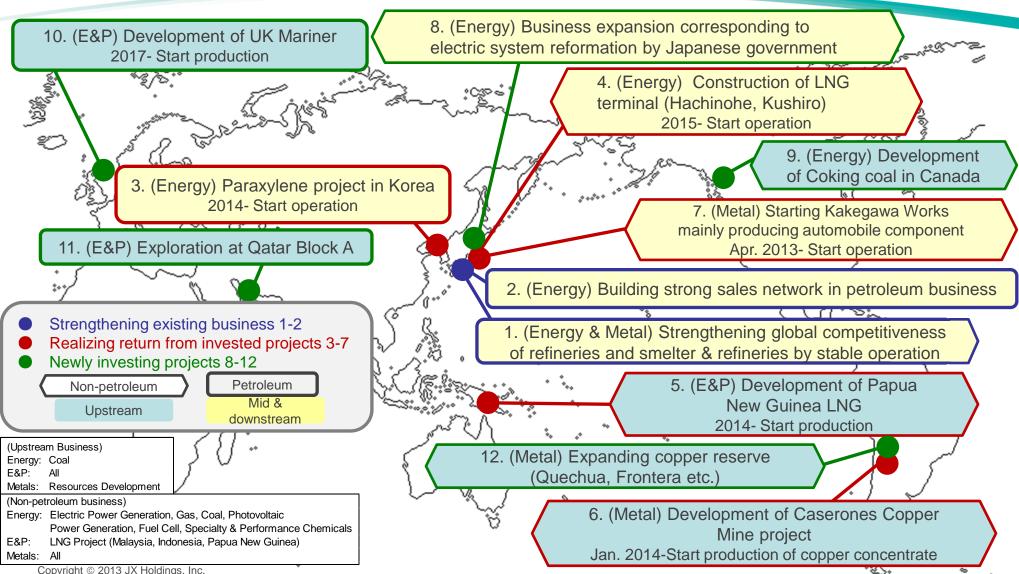


Exchange Rate	90 yen/\$
Crude Price(Dubai spot)	110 \$/bbl
Copper Price(LME)	360 ¢/lb

	2 <sup>nd</sup>	Mid-Term Mgt. Plan	(Reference) 1 <sup>st</sup> Midi-Term Mgt. Plan
	Ordinary Income	400 billion yen or more (FY2015)	300 billion yen or more (FY2012)
Target	ROE	10% or higher (FY2015)	10% or higher ( FY2012)
larget	Net D/E Ratio	0.9 times or lower (FY2015)	1.0 times or lower (FY2012)
	CAPEX (plan)	<mark>1,300+α billion yen</mark> (FY2013-2015 total)	960 billion yen (FY2010-2012 total)
	*Utilizing "α" for additior environmental change	nal strategic investment project corresponding to business	(F12010-2012 total)

# **Highlight of Major Projects**

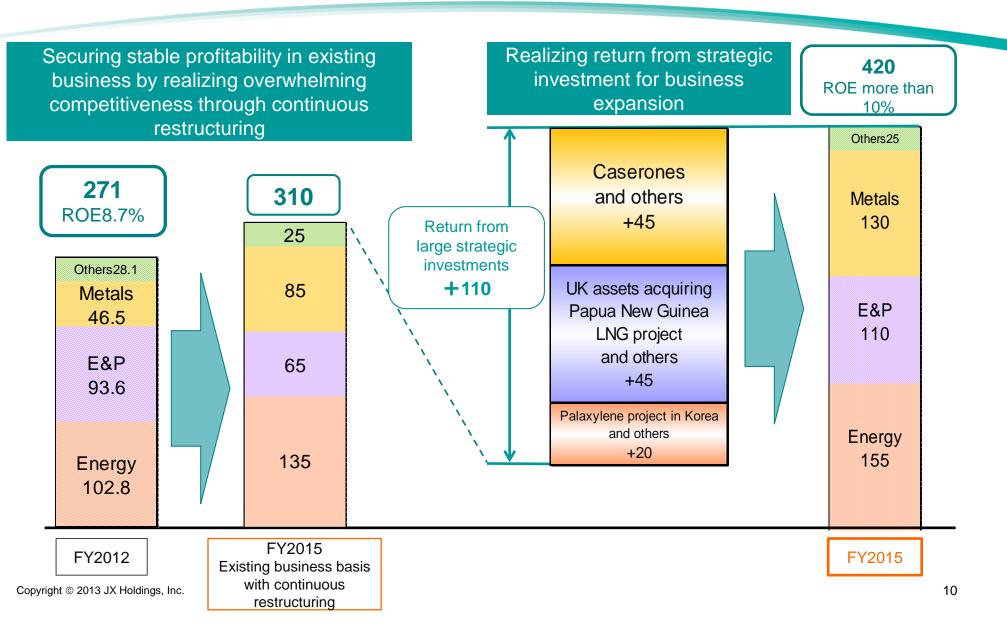




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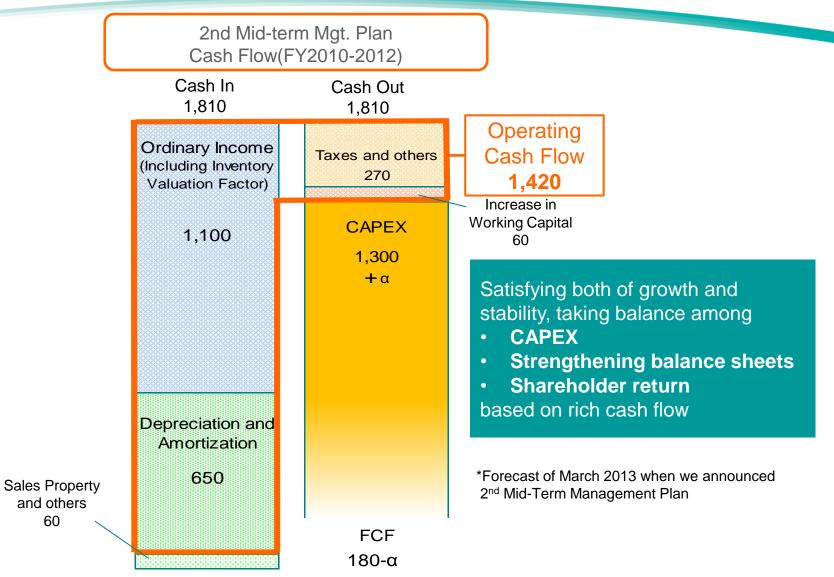
Earnings Plan(Ordinary Income Excluding Inventory Valuation Factor) (Unit : billion yen)





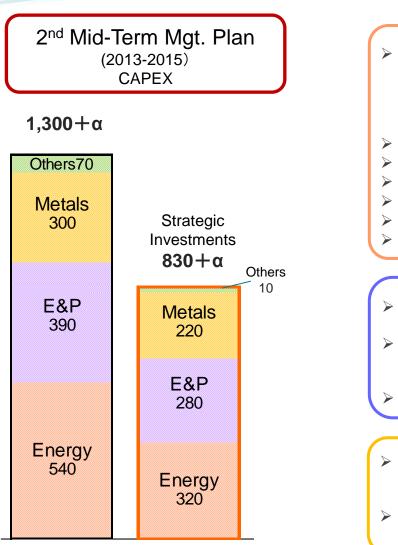
## Cash Flow Plan (FY2013-2015 total)





## CAPEX Plan (FY2013-2015)

(Unit : billion yen)



<Main contents of strategic investments>

#### Energy

- Petroleum Refining and Marketing :
  - · Energy saving in refineries
  - Utilization of bottom oil (Install of SDA)
  - Muroran refinery(Convert to chemical factory)
  - Building strong sales network
- > Electricity : Investment on Electric power facility (Using SDA pitch)
- > Gas : Construction of LNG terminal (Hachinohe, Kushiro)
- > Coal : Development of coking coal in Canada
- > Basic Chemical Products : Paraxylene project in Korea
- Lubricants : Base oil project in Korea
- > Specialty & Performance Chemical Products : Functional Chemicals

#### E&P

Exploration :

- Qatar block A
- Development :
  - UK Mariner
  - Papua New Guinea LNG
- Resource acquisition : Severely select and execute

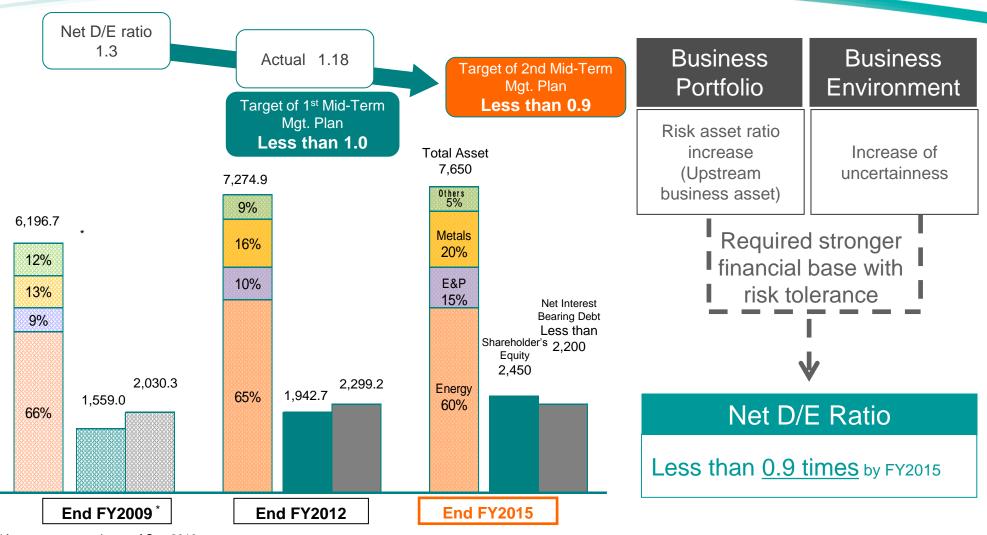
#### E&P

- Resource Development :
  - Development of Caserones
  - · Proceeding exploration and FS of Quechua, Frontera, and others
- Electronic Materials, Recycling & Environmental Services :
  - Enhancing overseas business

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# **Reinforcement of Financial Base**





\*Asset segment ratio, as of Sep.2010

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# Shareholder Return Policy



#### **Basic Shareholder Return Policy**

Redistribute profits by reflecting consolidated business results while striving to maintain stable dividends

#### Indication of Shareholder Return for 2nd Medium-Term Management Plan Period

Based on the basic policy, during the 2nd medium-term management plan period (FY2013-2015),

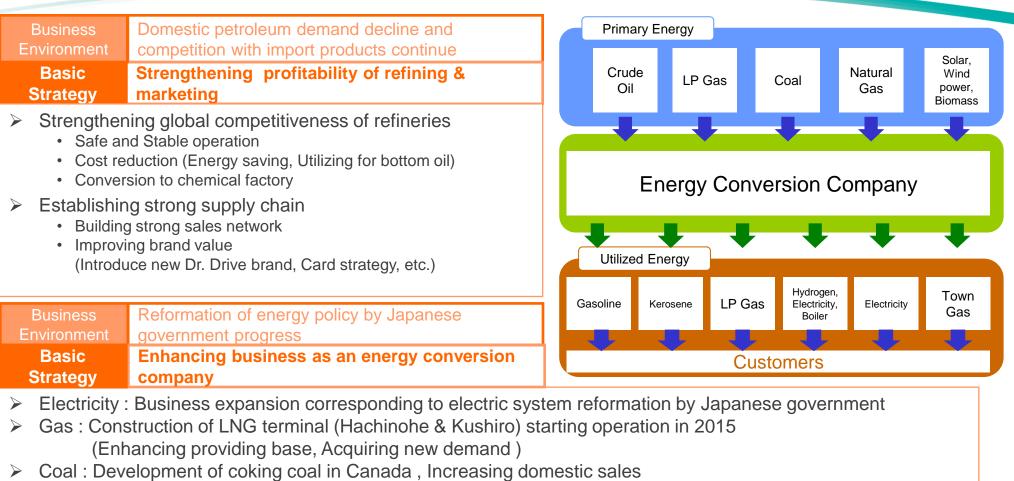
we will strive to maintain dividends of 16 yen per share per annum, while considering shareholder return in view of such factors as business results, investment plans and financial position for each term.

## Reference) Dividend from FY2010-2013

	2010	2011	2012	2013 (forecast)
Dividend (yen/share)	15.5	16.0	16.0	16.0

# Petroleum Refining & Marketing/Energy Conversion





Solar, Fuel Cell : Mega solar project, fuel cell business

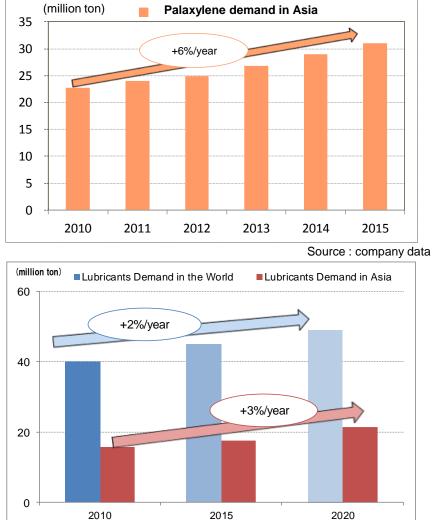
(Challenge for realizing a society with independent and distributed energy system)

> Hydrogen : Bring forward demonstration test of providing infrastructure

#### 3-1 Energy Business

## Basic Chemicals/Lubricants/Specialty & Performance Chemicals



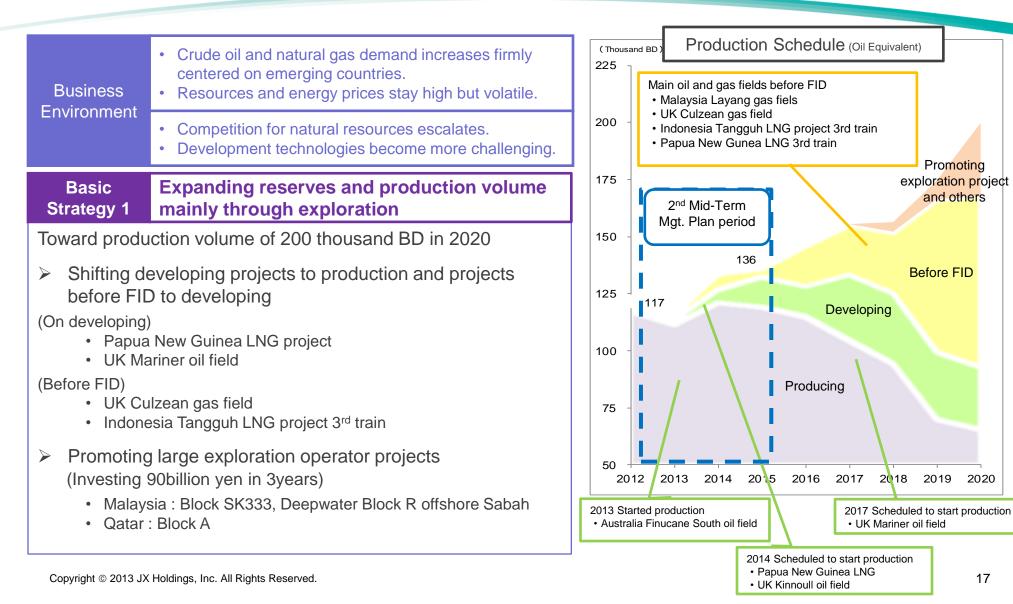


Business Environment	Energy and materials market continues to expand centering in Asia		
Basic Strategy	Establishing presence in overseas market		
(Provid • Corresp aromati ▶ Lubricants • Enhanc	ene project in Korea (Starting operation in 2014) ing capacity of JX Group : $2,620 \rightarrow 3,120$ thousand ton) bonding to business environmental change in olefins and		
Business Environment	Demand of high value-added products increases in emerging countries		
Basic Strategy	Acquiring demand of high value-added products based on original technology		
Expand	and Performance Chemicals ing overseas production network ing sales volume of cell incubation and others		

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## Expanding Reserves and Production Volume Mainly through Exploration





2020

#### 3-2 Oil and Natural Gas E&P

## Focusing on Core Business Area and Technology/Restructuring Business Portfolio



#### Basic Strategy 2 Establishing superiority by focusing core business area and technology

Aiming to secure independence and increase access to business chance by allocating management resources to core and core candidate countries and accumulating technology through operator projects

#### Core Area

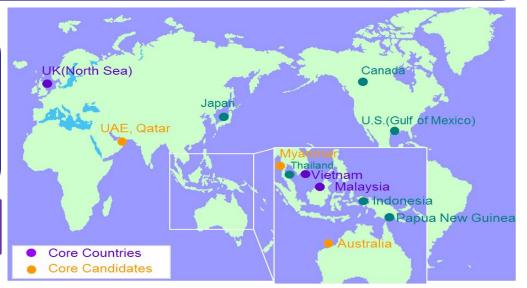
- Core countries: Malaysia, Vietnam, UK
  - Continuing exploration, development and resource acquisition utilizing knowledge and relationship with national petroleum companies etc.
- Core candidates : UAE/Qatar, Myanmar, Australia
  - To be developed as core countries acquiring business chance aiming for operatorship and strengthening business base

#### Core Technology

- Deepwater
  - Malaysia Deepwater Block R offshore Sabah
  - UK West of Shetland offshore
- Enhanced Oil Recovery
  - Vietnam Rang Dong Oil Field HCG-EOR
- Tight Oil, Tight Gas
  - Qatar Block A

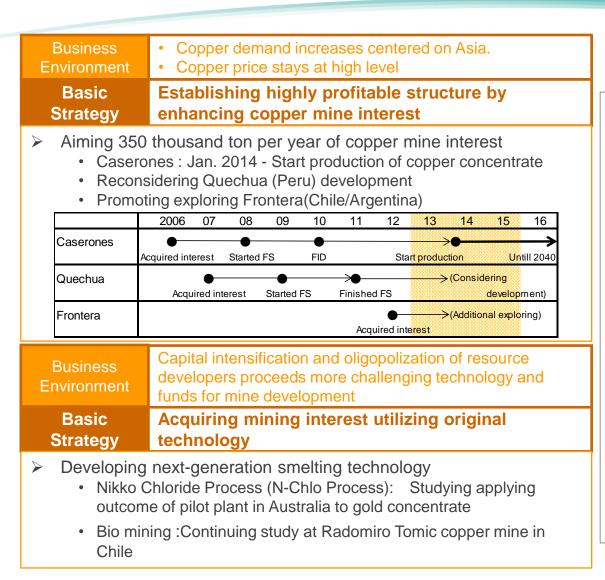
# BasicRestructuring business portfolio respondingStrategy 3to business environmental change

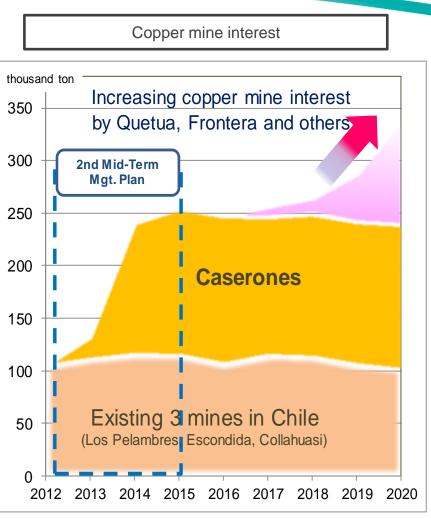
Rearranging asset portfolio timely



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# Smelting & Refining/Electronic Materials/Recycling & Environmental Services



Smelting & Refi	
Business Environment	Drastic improvement of TC/RC is hardly expected though mine development proceeds.
Basic Strategy	Establish business structure that has world top-class cost competitiveness
<ul> <li>Using high ma</li> </ul>	nargin duction efficiency using copper concentrate from Caserones.
Electronic Mate	rials
Business Environment	Electronic materials demand increases in cutting-edge IT, automobile, medical fields etc
Basic Strategy	Securing world's top share in each product market
	tization of integrated connecter production business (2013.4 Kakegawa Works start operation) and siness for lithium-ion batteries
<ul> <li>Improving profitability</li> <li>Ultra-thin elect</li> </ul>	/ by developing new fields and materials ro-deposited copper foil, High-functional precision rolled products, Sputtering target for OELD, Sputtering t generation LSIs, Materials for ray sensor
<ul> <li>Improving profitability</li> <li>Ultra-thin elect</li> </ul>	/ by developing new fields and materials tro-deposited copper foil, High-functional precision rolled products, Sputtering target for OELD, Sputtering t generation LSIs, Materials for ray sensor
<ul> <li>Improving profitability</li> <li>Ultra-thin elect targets for nex</li> <li>Recycling &amp; Environmer</li> </ul>	/ by developing new fields and materials tro-deposited copper foil, High-functional precision rolled products, Sputtering target for OELD, Sputtering t generation LSIs, Materials for ray sensor
<ul> <li>Improving profitability</li> <li>Ultra-thin elect targets for nex</li> </ul>	<ul> <li>by developing new fields and materials</li> <li>cro-deposited copper foil, High-functional precision rolled products, Sputtering target for OELD, Sputtering target for OELD, Sputtering target for OELD, Sputtering</li> <li>t generation LSIs, Materials for ray sensor</li> </ul>

> Consolidating production site metal by metal and cost reduction

#### 4. Long-Term Vision

Become a World's Leading Integrated Energy, Resources and Materials Business Group



Group mission statement	JX Group will contribute to the development of a sustainable economy and society through innovation in the areas of energy, resources and materials
Target of JX Group (2020)	<ul> <li>Become a world's leading integrated energy, resources and materials business group</li> <li>1. Corporate group holding competitive businesses evaluated by global standards</li> <li>2. Well-balanced businesses portfolio petroleum and non-petroleum, upstream and mid &amp; downstream businesses</li> </ul>
JX Group Values	Our actions will respect the EARTH
	E thics
	A dvanced ideas
	R elationship with society
	T rustworthy products/services
	H armony with the environment

# Target of JX Group (2020)



## 1. Corporate group holding competitive business evaluated by global standards

#### Energy

## Become a "Energy Conversion Company" providing energy stably and efficiently

- Generating stable profitability in refining & marketing
  - Establishing competitive supply chain (Refining, logistics, marketing)
- Establishing integrated energy supply structure
  - Electricity, Gas, Coal, Solar, Fuel Cell, Hydrogen
- Enhancing business in growing market
  - Basic Chemicals, Lubricants, Specialty & Performance Chemicals

## Oil and Natural Gas E&P

Become a sustainably growing E&P company mainly through operatorship

- > Toward production volume of 200 thousand B/D
- Utilize worldwide human resources and knowledge efficiently
- More than 100% of reserve replacement ratio

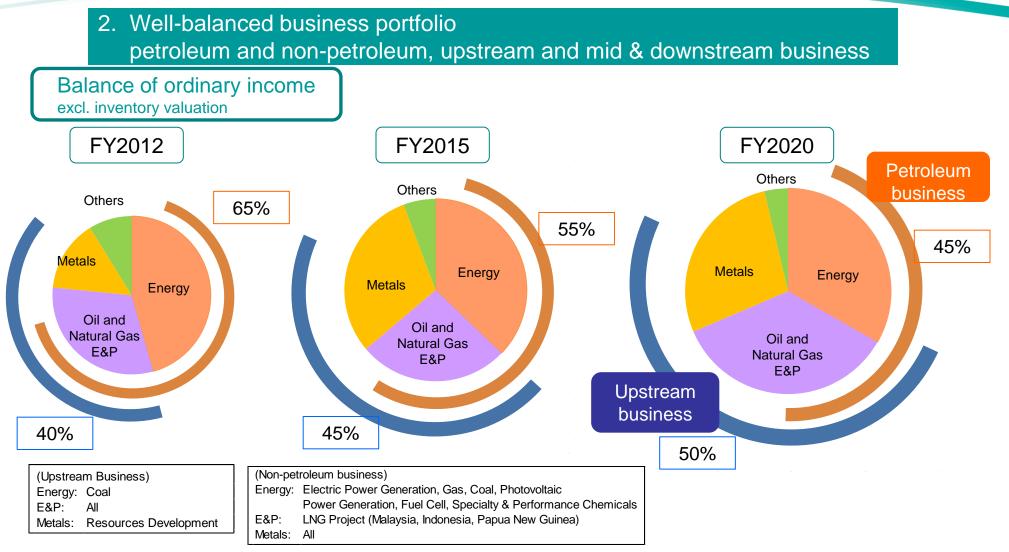
## Metals

# Become a global resources and materials company centered on copper

- Aiming 350 thousand ton per year of copper mine interest
- Establish smelting & refining business structure that has world top-class cost competitiveness
- Securing world's top share in each electronic material market
- Building domestic resource recycling system and developing overseas business

# Target of JX Group (2020)

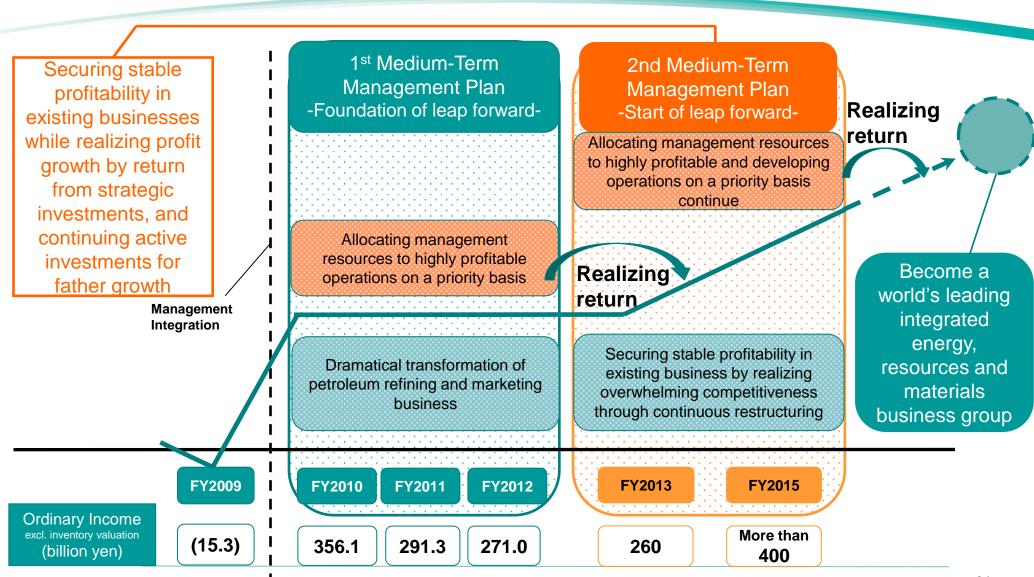




#### 4. Long-Term Vision

## Position of 2<sup>nd</sup> Medium-Term Management Plan in Long-Term Vision







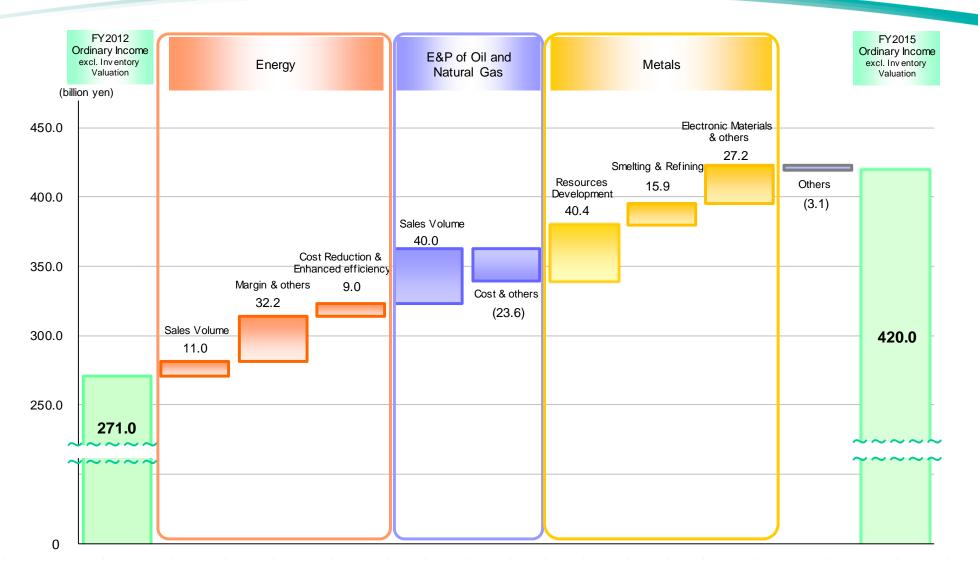
## Supplementary Data

## Ordinary Income excl. Inventory Valuation



(JPY billion)	FY2012	FY2015
Ordinary Income excl. Inventory Valuation	271.0	420.0
Energy	102.8	155.0
Petroleum Products	56.1	100.0
Petrochemicals	46.7	55.0
Oil and Natural Gas E&P	93.6	110.0
Metals	46.5	130.0
Resources Development	26.6	67.0
Smelting & Refining	11.1	27.0
Electronic Materials	6.3	21.0
Recycling & Environmental Services	2.5	11.0
Titanium (Shifted to Metals from 2013)		4.0
Others	28.1	25.0





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## Key Factors



		FY2012	FY2015
All segments	Exchange rate [Yen/\$]	83	90
Energy	Crude oil price [Dubai] [\$/B]	109	110
	Paraxylene spread [ACP] (vs. Dubai crude oil price of previous month) [\$/ton]	715	680
Oil and Natural	Sales volume <crude equivalent="" oil=""> [1,000 bbl/day]</crude>	117	136
Gas E&P	Crude oil price [Brent] [JanDec.] [\$/B]	109	110
Metals	Copper price [LME] [JanDec.] [¢/lb]	361	360
	Equity entitled copper mine production [1,000 tons/period, year]	105	250
	PPC refined copper sales [1,000 tons/period, year]	551	610
	TRCF*1 sales [1,000 km/month]	2.7	3.7
	Precision rolled products sales [1,000 tons/month]	3.3	4.0
	Gold recovery volume by Recycling & Environmental Services [tons/period, year]	5.8	7.4

\*1 Treated Rolled Copper Foil



## Key Factors (FY2015)

Exchange Rate:90Yen/\$

Crude Oil FOB:110\$/bbl (Dubai Spot) Copper Price:360¢/lb

#### Sensitivity analysis for FY2015 ordinary income

			(JPY Billion)
Key factors	Appreciation	Segment	Impact
		Energy	0.0
Exchange Rate		(In-house Fuel costs rise, margin improvement in petrochemicals)	0.0
	+1 Yen/\$	Oil and Natural Gas E&P	2.0
		Metals (Margin improvement, FX rate)	1.5
	yen depreciation	Subtotal	3.5
		Inventory valuation gain	7.5
		Total	11.0
		Energy (In-house Fuel costs rise)	(1.5)
Crude Oil FOB		Oil and Natural Gas E&P	2.0
	+1\$/bbl	Subtotal	0.5
(Dubai spot)			5.5
		Inventory valuation gain	
		Inventory valuation gain Total	6.0
Copper Price	+10¢/lb		



This notice contains certain forward-looking statements, however, actual results may differ materially from those reflected in any forward-looking statement, due to various factors, including but not limited to, the following:

(1) macroeconomic conditions and changes in the competitive environment in the energy, resources and materials industries;

(2) changes in laws and regulations; and

(3) risks related to litigation and other legal proceedings.