

# **J-POWER**

# FY2010 Group Management Plan

# (FY2008-2012 Management Targets)

## Electric Power Development Co., Ltd.

The English version is a translation of the original Japanese version. Please note that if there is any discrepancy, the Japanese version will take priority.

# J-POWER Group



- A wholesale electric power company responsible for about 7% of Japan's electric power supply, we own and operate power generation facilities with an output of about 17GW consisting mainly of technologically advanced, highly efficient hydropower and coal-fired thermal power.
- As a utility company with 2,400km of transmission lines and frequency converter stations, we play a vital role in linking the regions of Japan and ensuring a stable power supply.
- We are active participants in **global business development** including power generation businesses and coal mining projects overseas.
- "We aim to ensure constant supplies of energy to contribute to the sustainable development of Japan and the rest of the world" is the corporate philosophy and the starting point of J-POWER's Corporate Social Responsibility (CSR).

## In Our Group Management Plan for FY2009...

In order to pursue sustainable growth amid the current severe business environment, which is seeing a decline in demand for electric power and other adverse effects due to the long-standing recession, the following two tasks have been established, and efforts redoubled to achieve these goals.

- Strengthening our corporate infrastructure against uncertainty
- Commitment to long-term global warming measures

### In Our Group Management Plan for FY2010...

- This marks the third year of our five-year plan, exactly the mid-point. The pace of the recovery is slow, and significant growth in demand for electric power cannot be still expected.
- As the pace of efforts to address global environmental issues has become more uncertain, J-POWER has redoubled its efforts to stay ahead of the changing times.
- As the Company is faced with previously unseen complexities and an increasingly severe business environment, we will take strength from our track record to this point and will strive for further growth.

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# To Our Stakeholders



In the global economy, although a partial trend toward recovery has appeared primarily for demand in Asia, the course of recovery in Japan, Europe and the United States remains uncertain. In addition, discussions concerning a new international framework for measures to combat global warming, which will have a major impact on long-term, worldwide economic activity, have led to greater confusion, as no effective agreement was reached at the Copenhagen Conference at the end of last year.

Against this backdrop, although electric power demand Japan seems finally to have emerged from its worst phase, industrial demand showed a striking decline from FY2008, and it is projected that it will take several years for nationwide demand to return to FY2007 levels. J-POWER's electric power sales in FY2009 have also been affected by these conditions, whilst a decline in load factor caused by problems at several thermal power facilities led to an increase in maintenance costs associated with those problems. Inevitably, these factors together resulted in consolidated ordinary income falling short of the initial target.

Given such challenging management conditions, we established the following two issues in the FY2010 Group Management Plan as key priorities, with the goal of solidifying our position in the near term, and aiming ourselves at the challenges of the future.

The first issue is to address the transition to a low-carbon society from a long-term perspective. Since we initially formulated our corporate philosophy in 1998, we have regarded taking action to address the problem of global warming as our primary mission as an energy company, declaring our intent to "contribute to the sustainable development of Japan and the rest of the world" through the supply of energy. Although we find ourselves in the midst of a confused debate concerning a new international framework, we have kept a firm eye on the significant shift toward a low-carbon society, and will continue to identify new business opportunities amongst the pioneering initiatives backed by unflagging technological innovation. These efforts will lead to our sustainable growth as a company.

The second issue is to ensure plant reliability and thoroughly reinforce our business operating infrastructure. The stable operation of electric power facilities, including electric power generation plants, is vital for ensuring stable earnings in the domestic wholesale power business, which is the pillar of the Group's earnings base. It is also essential for fulfilling our responsibility to ensure a stable supply of electric power to our customers. Given the increasing number of incidents in recent years associated with the ageing of our power facilities, we must devote maximum effort to preventative maintenance by enhancing our diagnostic capabilities. By optimizing facilities' maintenance from both a long-term and economic perspective, simultaneously ensuring the reliability and cost competitiveness of those facilities, we will continue to strengthen our operating base. This year marks the mid-point of the 5-year management plan that we formulated in 2008. However, several factors have combined to force us to lower our consolidated ordinary income target for FY2010. These include a delay in the recovery of electric power demand in Japan and overseas, an increase in maintenance costs aimed at maintaining the reliability of our facilities, advance investments in research related to the development of high-efficiency coal-fired thermal power technology to support low-carbon energy use.

Nevertheless, our direction remains unchanged. Despite these challenging times, we will hold fast to the corporate philosophy that marked our beginning, that of "ensuring constant supplies of energy to contribute to the sustainable development of Japan and the rest of the world". By promoting the five business strategies advocated in the medium-term management plan one step at a time, we will continue to aim for long-term growth.

We look forward to your continued support in these endeavors.

President





# . Understanding Management Issues Based on Our Performance and the Business Environment



Sluggish demand for electric power domestically     and overseas	
<ul> <li>The pace of the world economy's rebound is slow.</li> <li>Japan's electric power demand primarily depends on industrial demand and the outlook for recovery is unclear</li> <li>While some believe that demand for electric power is likely to increase over the medium to long-term due to lifestyle factors, changes in the structure of industry, and global warming issues, it is difficult to project an increase in demand due to the chief influences of a declining population and increasing energy efficiency.</li> <li>Trends in resource prices</li> </ul>	<ul> <li>Global Warming</li> <li>We have entered the third year of the fill round of the Kyoto protocol and the Copenhagen Conference, COP 15, was held at the end of last year, but did not succeed in outlining the new internation framework targeted by the post-Kyoto protocol.</li> <li>Japan, on the other hand, is moving</li> </ul>
<ul> <li>Resource prices have begun to rise, staging a turnaround from the trend of decline in the face of strong demand from China, India, and other countries.</li> <li>The trend of demand is towards tightness over the long-term. Steeply rising prices due to restriction of resource volumes are a possibility for the future.</li> </ul>	<ul> <li>forward with considering various policies with the goal of reducing emissions by 25 from 1990 levels by 2020.</li> <li>The rate of change towards a low-carbon society is accelerating domestically and overseas.</li> </ul>

# Uncertainty and lack of clarity in the external environment surrounding our business is increasing

## Principal Areas of Performance in FY2009



	Steady Growth in Power Generation Facilities	<ul> <li><u>Isogo New No. 2</u> (600MW): Brought online in July 2009</li> <li><u>Ohma Nuclear Power Station</u> (1,383MW; scheduled to commence operations in Nov. 2014): Construction work progressing smoothly (Percent completed: 8.2% (as of Mar. 20, 2010))</li> </ul>	Plant output (non-consolidated)*1 Hydroelectric power: 8,561MW <u>Thermal power: 8,427MW</u> Total: 16,988MW
Five Key Initiatives Growth Strategy Action Plan)	Technology Innovation and New Project Development	• <u>Large-scale demonstration test of oxygen-blown coal gasification</u> integrated gas combined cycle (IGCC) power plant technology & <u>CO2 capture &amp; storage technology (170MW class)</u> : New company, Osaki CoolGen Corporation, established with Chugoku Electric Power Co. Ltd,.	(Capacity added this FY: 603MW) Output of overseas power generation businesses (on an equity basis) <sup>-1-2</sup>
	Enhancing the Value of Business Assets	<ul> <li><u>Hydroelectric Power</u>: Comprehensive upgrade of hydroelectric turbine generators carried out. (Nukabira No. 1 completed; Tagokura No. 3 in progress)</li> <li><u>Onikobe geothermal power plant</u>: <u>Construction to add capacity completed</u></li> </ul>	<b>3,574MW</b> (Capacity added this FY: 532MW)
	Global Business Expansion	<ul> <li><u>China</u>: Acquired 7% interest in Gemeng Int'l. Energy Co., Ltd. (4,374MW)</li> <li><u>U.S.</u>: Acquired equity interest of two gas-fired power plants (total output of 160MW) in Long Island, NY</li> <li><u>Thailand</u>: Concluded PPAs for seven SPP projects (total output of 780MW)</li> </ul>	Wind power generation plant output*1*3 Domestic: 271MW (15 sites) <u>Overseas: 48MW (1 site)</u> Total: 319MW (16 sites) (Capacity added this FY: 15MW)
	Power Generation as the Core of a Diversified Business	<ul> <li><u>Wind Power Generation</u>: Acquired three wind power generation plants in Japan</li> <li><u>Biomass</u>: Established two fuel manufacturing companies (sewage sludge, unused waste timber from forests)</li> </ul>	Share of wind power facilities: No. 3 domestically <sup>4</sup>

• The outlook for a recovery in electric power demand is unclear both domestically and internationally. The business environment is rapidly changing. While we have steadily produced results in the five key areas in which initiatives have been undertaken in FY2009, the initial forecast for consolidated ordinary income was not achieved because the lower load factor of our thermal power plants were down due to equipment problems, a

decline in demand for electric power, and an increase in maintenance costs and so on.

\*3 Percentage investment not taken into account

<sup>\*1</sup> As of March 31, 2010

## Issues on the Way to Sustainable Growth



### From external environmental trends

#### From p. 6

- The global economic recovery is slow.
- Global warming: Conversion to a low carbon society is accelerating in order to achieve the medium-term goal of a 25% reduction by 2020.
- Power demand outlook: Slow growth and unclear outlook
- J-POWER must secure its business position by taking preemptive action to achieve a low-carbon society.
- While the petrochemical fuel market is undergoing commoditization, the balance of worldwide supply and demand is tightening, resulting in an upward trend in prices.

#### From FY2009 results

#### From p. 7

• We will work to strengthen the operating infrastructure of our business whilst also working to ensure plant reliability in order to achieve a stable supply of electric power and ensure stable profits.

### Key Issues Amid the Increasingly Difficult Business Environment

> Action 1: Addressing the transition to a low-carbon society from a long-term

perspective ( p. 9)

Seek out new business opportunities as we take preemptive action to exercise control over the issues.

Action 2: Strengthen the operating infrastructure of our business while also working to ensure plant reliability ( p. 10)

Work towards the dual goals of achieving a stable supply of electric power and enhancing competitiveness.

## Action 1: Address the Transition to a Low-Carbon Society from a Long-term Perspective



### Anticipate external environmental changes that have occurred up to now and that will occur and respond to the changes that will occur as the transition to low-carbon progresses

## Initiatives up to this point

- Improved the function of ageing hydroelectric power generation equipment / Efficiency improved through comprehensive upgrade.
- Developed oxygen-blown coal gasification Integrated Gas Combined Cycle (IGCC) power plant technology / Reduced CO<sub>2</sub> emissions by improving power generation efficiency.
- Made progress on the Ohma Nuclear Power Plant / Plays an important role in the nuclear fuel cycle whilst also providing a CO<sub>2</sub>free power source.
- Encouraged the development of renewable energy sources such as wind power, geothermal, and solar power / Promoted CO<sub>2</sub>free power sources.
- Introduced and expanded a combined biomass/coal-fired power plant / Reduced CO<sub>2</sub> through combined combustion of miscellaneous waste, sewer sludge and unused waste lumber from forests in our coal-fired power plants.

### From this point onward.... in addition to the measures taken up to this point

- Improve the efficiency of ageing thermal power plants / Improve efficiency through application of the latest technology.
- Advance investigative research into next-generation coal-fired power generation through technological innovation / Work to achieve drastic improvement in efficiency.
- Engage in initiatives to develop the technology for CO<sub>2</sub> recovery and storage.
- Contribute to the reduction of CO2 worldwide by employing high-efficiency power generation technology overseas.

## By continuing to take anticipatory action....

- Taking definitive action to secure the position of our businesses amid the major transition to a low-carbon society will lead to sustainable growth as a company.
- We will seek out new business opportunities as we engage in efforts to exercise control over issues.

## Action 2: Ensure Plant Reliability and Work to Reinforce Our Business Operating Infrastructure

 Achieve steady results in each area as we undertake the "Five Key Approaches"

- Move forward with current initiatives to achieve sustainable growth and anticipate the rapidly changing business environment.
- Work to strengthen our business operational infrastructure whilst simultaneously ensuring the reliability of plants in order to achieve stable profits.

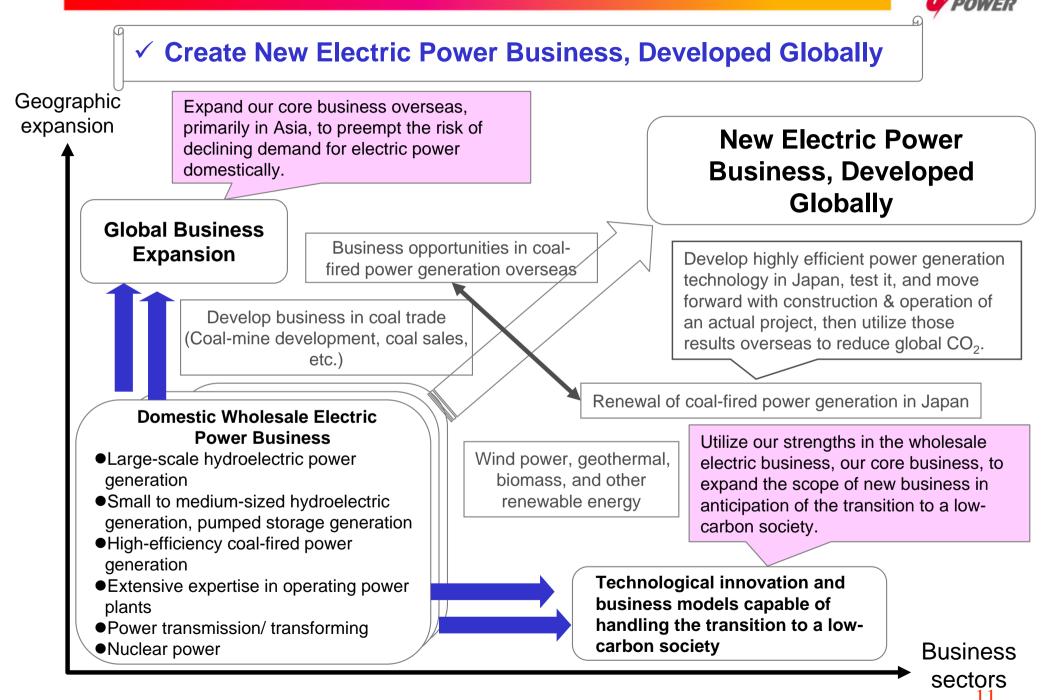
- Seek the optimal balance between reliability and cost
  - Employ investment in renovation
  - Use ingenuity in procuring resources, equipment, and materials
  - Improve maintenance methods
  - Develop human resources who are cognizant of the importance of passing on technology

• Ensure the profitability of new assets

 Improve financial soundness to increase ability to endure change

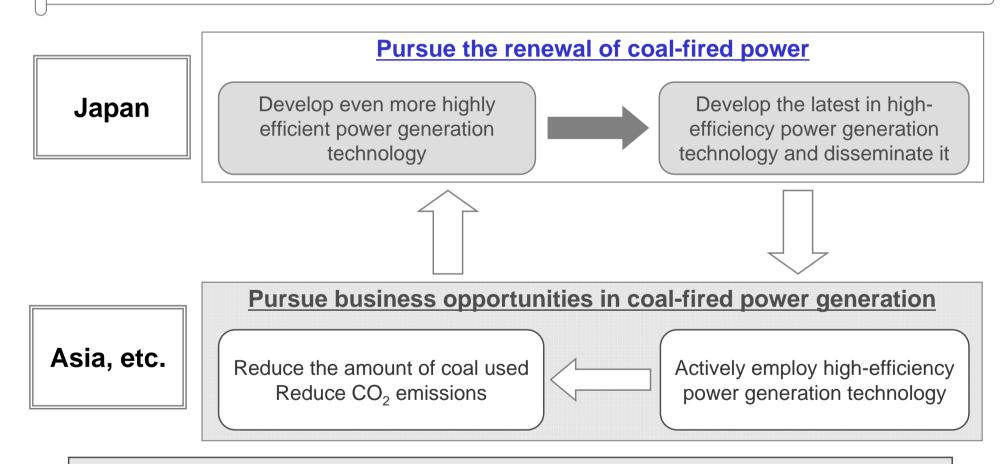
Strive to optimize plant maintenance from a long-term, economic perspective

## Meeting Current Challenges and Beyond



## New Business Model Based on the Transition to Low Carbon

✓ Reduce global  $CO_2$  by developing the latest high-efficiency electric power generation technology, testing it, and moving forward with construction and operation of a plant domestically, then utilizing that success mainly in Asia.



Achieve the Twin Goals of Growth in Japan & Asia and Transitioning to Low Carbon & Improving the Environment



# II. Business Strategies for Achieving Goals

(1) Steady Growth in Power Generation Facilities

(2) Technological Innovation and New Project Development

(3) Enhancing the value of Business Assets

(4) Global Business Expansion

(5) Power Generation as the Core of a Diversified Business

# (1) Steady Growth in Power Generation Facilities

- Or A strangthening our business infrastructure.
  - ✓ Plant structure to be reinforced by incorporating a CO<sub>2</sub>-free electric power source.

## **Ohma Nuclear Power Plant** (Aomori Prefecture)

- J-POWER's largest power generation unit (1,383MW)
- As a power plant emitting almost no CO<sub>2</sub> during the power generation stage, Ohma will be even more important in terms of global warming.
- It is the largest reactor using plutonium in Japan as a full mixed oxide fuel (MOX) advanced boiling water reactor (ABWR)\*, and will play an important role in the nuclear fuel cycle. (Plutonium transfer contract concluded in 2009)



- Move forward with construction, making safety assurance the number one priority with the goal of commencing operation in November 2014.
- This will be the first nuclear power plant for J-POWER so we will steadily move forward with building the infrastructure.

(\*) Full MOX-ABWR: advanced boiling water reactor in which uranium/plutonium mixed oxide fuel (MOX) can be used for the whole reactor core.

## Ohma Trunk Transmission lines (Aomori Prefecture)

- Important transmission lines that transmit electricity from the Ohma Nuclear Power Plant (total line: 61 km)
- Main construction has been completed. We are focusing on the absolute safety of the plant towards receiving transmission electricity.

Continue to actively promote new hydroelectric and thermal facilities after Ohma.

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# (2) Technology Innovation and New Project Development

## Continue to make tireless efforts to improve generation efficiency and reduce carbon.

### **Mid-term measures**

### **Renew Ageing Coal-fired Power Plants**

...Attempt to reduce the CO<sub>2</sub> unit emissions intensities through the adoption of the highest level technology, starting with ultra-supercritical pressure power generation technology, and mixed burning of biomass fuels

### **Improve Function of Ageing Hydro Power Plants**

...Expand the function of hydro power plants as a CO2-free power source by upgrading facilities to improve efficiency at existing hydro power plants.



Isogo Power Plant, boasting the world's foremost thermal efficiency & environmental design

### Long-term measures

### Achieve Next-Generation Coal-fired Power with New Technology

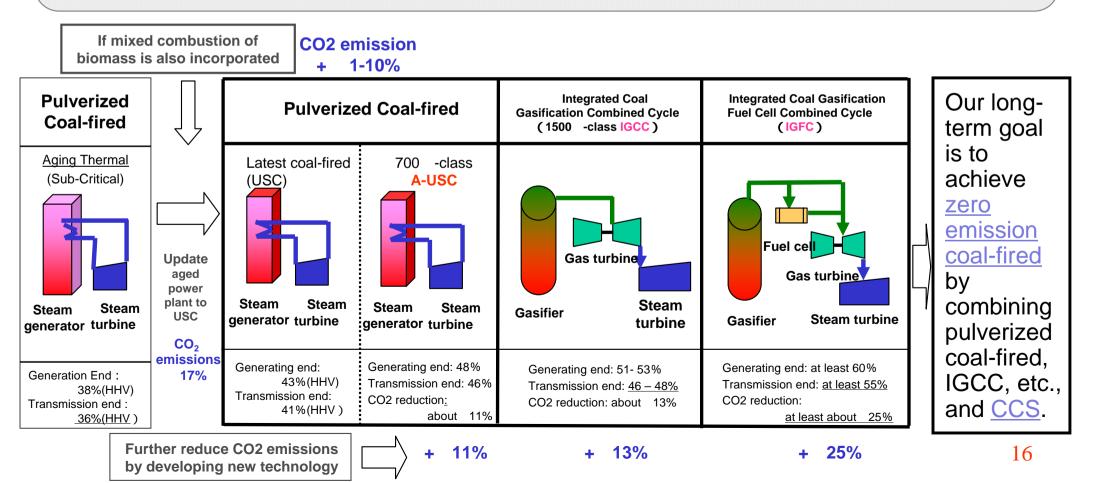
Osaki CoolGen Corporation was established in Hiroshima Prefecture as a joint venture with Chugoku Electric Power Co. for large-scale demonstration test of the oxygen-blown gasification Integrated Gas Combined Cycle (IGCC) technology . An environmental assessment was conducted in August 2009. Construction will begin in March 2013 with the goal of beginning demonstration test in March 2017.

The company will work on investigative research related to the development of CO2 recovery technology at the company's site and in Australia, and the joint transport and storage of CO2 with related organizations.

## **Developing Future Technology** for a Coal-fired High-efficiency Electric Power Plant



- Pulverized coal-fired generation (PCF): A method of power generation in which coal is burned in the boiler and the high-temperature, high-pressure steam created is fed into a steam turbine. This is the mainstay of coal-fired power generation at present. Efficiency is improved by raising the temperature and pressure conditions for the steam. We are currently working on development of a 700 -class A-USC (Advanced Ultra Super-Critical).
- Coal gasification combined cycle: Integrated gasification combined cycle (IGCC) is a method of power generation in which a furnace converts coal into gas and then generates power through a combination of a gas turbine (GT) and a steam turbine (ST). Higher efficiency power generation than power generation using pulverized coal is possible. Efficiency is improved by raising the temperature of the gas at the entrance to the gas turbine.
- ◆ Integrated gasification fuel cell combined cycle: IGFC is a method of triple cycle power generation in which fuel cells are combined with IGCC. It can generate power with even higher efficiency that ICCC.
- Our long-term goal is to achieve zero-emissions coal-fired power plant by incorporating technology developed and commercialized for carbon capture and storage (CCS).



# (3) Enhancing the Value of Business Assets



# ✓ A stable supply of electric power is the bedrock of J-POWER's business. ✓ Optimization of plant safety from a long-term, economic perspective



 Aim to increase power output and electricity produced through full renovation of water turbine generators (Nukabira Power Plant No. 1 completed and Tagokura Power Plant No. 3 under construction)



•Aim to improve efficiency by renovating the high and intermediate pressure rotors at the Matsushima Power Plant After equipment failure reduced thermal load factor in FY2009, we accomplished the twin tasks of improving competitiveness and ensuring plant reliability by optimizing plant maintenance from a long-term, economic perspective. Our goal in doing so is to raise the value of our business assets.

 The laying of the Kitahon HVDC link cable secured stable, long-term linked power transmission and telecommunication facilities between Hokkaido and Honshu.



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### **Plant Maintenance Capabilities**

•Our capability in plant maintenance for generation, transmission, and transformer equipment is backed by our extensive expertise and constitutes one of our core competencies. We will strive to refine our capabilities through various efforts to invest in upgrade (to reduce long-term maintenance costs, improve generator performance through upgrade, etc.), developing technology in-house, work to procure resources and materials, and improve maintenance methods.

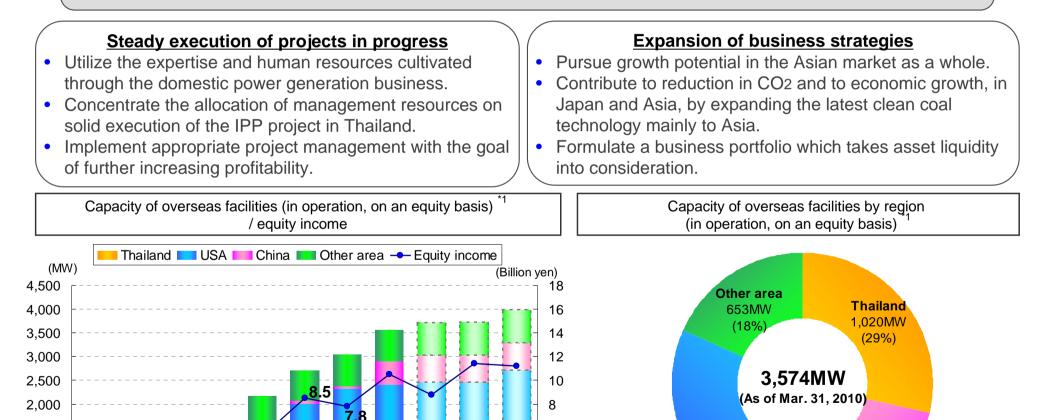
## (4) Global Business Expansion



Expectations as a driver of growth for the Group as a whole & further expansion of overseas operations as the second major area of J-POWER's business

Steady development of the key markets in Thailand, China, and the U.S.
 Simultaneously working aggressively to develop new markets.

2007 2008 2009 2010 2011 2012



6

4

2

0

-2

\*1 Multiplied by our percentage interest in all projects in which we are participating

2006

2005

1.500

1.000

500

0

Output for 2010 and beyond is forecast; equity income after FY2009 forecast

**USA** 

1.390MW

(39%)

China

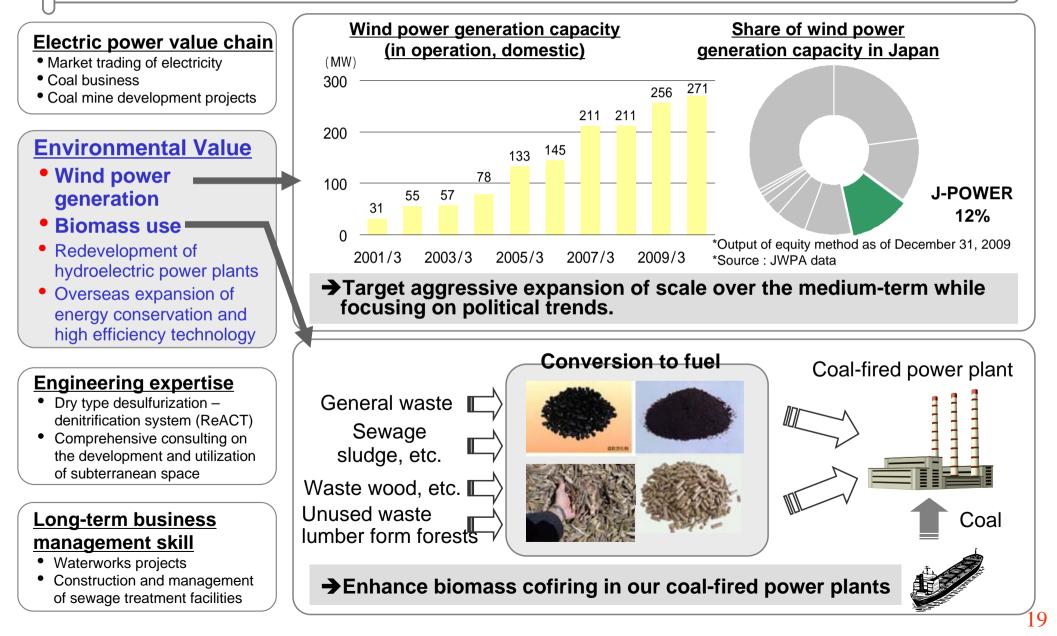
511MW

(14%)

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# (5) Power Generation as the Core of a Diversified Business

# Place greater priority on wind power generation and the utilization of biomass, which contribute to limiting CO2 emissions





### **Consolidated Ordinary Income Forecast**

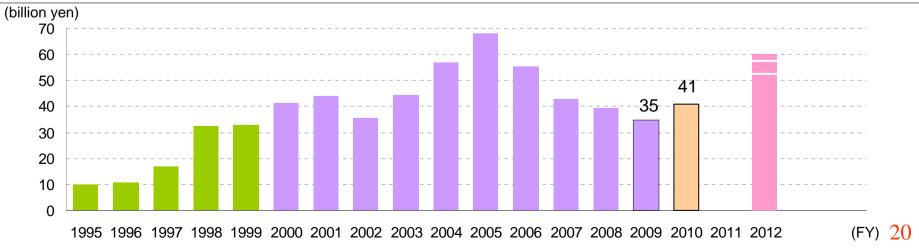
### FY2010: ¥41 billion or more

FY2012: ¥60 billion

- We expect difficulty in reaching our target of ¥50 billion in consolidated ordinary income for FY2010 due to uncertainty as
  regards a rebound for electric power demand, increased maintenance costs to maintain plant reliability, promotion of
  development of high efficiency coal-fired power generation technology as a means of redoubling efforts to transition to low
  carbon, and expenses incurred for measures to address CO<sub>2</sub>, among other factors, and have therefore revised our forecast
  downward to ¥41 billion.
- We will reconsider our consolidated ordinary income target for FY2012 (¥60 billion) in our FY2011 management plan based on initiatives to be undertaken in FY2010 and the trends for the many uncertain factors such as projected demand, and measures taken to address global warming. Our projection for FY2009 ROA, an management index which tracks such conditions, is 1.7%, and we will reconsider what level to manage when formulating FY2011management plan.

### Actions to Address in FY2011

- Taking preemptive measures to address the widespread move towards a low-carbon society
- Strengthening the operational foundation of the business, beginning with ensuring the reliability of plant facilities
- Making steady progress toward building new facilities, both domestically and overseas



Parent results up to FY1999 and consolidated results from FY2000 onward. According to the third quarter forecast for FY2009 ordinary income.

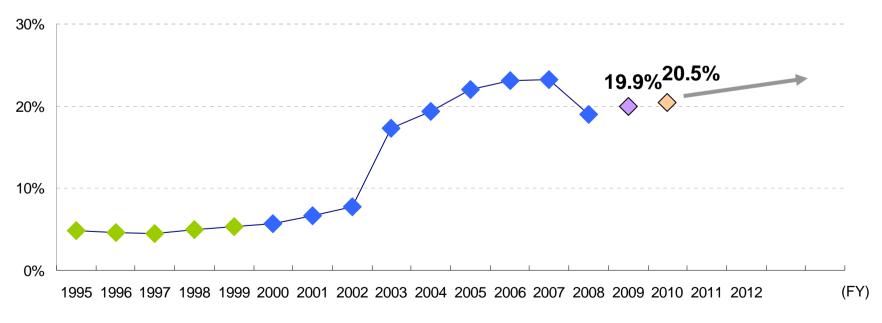
## Five-year Target Progress Update



## **Consolidated Shareholders' Equity Ratio Forecast**

The end of FY2010: 20.5%

- We have retracted our numerical target for consolidated shareholders' equity ratio since the last fiscal year, but will aim for continual improvement.
- The forecast for the end of FY2010 is 20.5%.
- We are still in the facilities formation phase, but our management policy of continuing to strengthen our financial position remains unchanged.



## Investment Plans(FY2008-FY2012)



✓ Investment plans are proceeding smoothly.

✓ Decisions to move forward have already been made for numerous projects; solid execution of these projects will be the issue.

(FY)	2008 ~ 2012 2013 ~	>
Increase Power Generating Capacity	Isogo New #2, Ohma Nuclear     Further enhancement       Approx. 300 billion yen     of domestic assets	
New Project Development	Initiatives to develop technologi Coal Gasification Technology innovations in advance and create and others business	
Enhance and maintain business asset values	In FY2008-2009 we invested approximately 0 240 Life 1 0 10 Life 1 0 Life	
Global Business Expansion	340 billion yen         Overseas Power Generation Business         Further efforts to developed         Approx. 250 billion yen         (Amount of direct contribution: approx. 90 billion yen)	~
Business Diversification	I       I       Further expansion based         I       I       Renewable energy/coal businesses       widespread move toward         I       Approx. 100 billion yen       carbon society	

\* The amounts recorded are the amounts recorded in J-POWER's consolidated assets. Moreover, we plan to establish project financing for overseas projects, and this will limit J-POWER's exposure to an amount equivalent to project capital multiplied by our investment ratio (expected amount of direct contribution: about 90 billion yen). Investment amount for fiscal 2008-2009 is an estimate, current as of the end of the third quarter.



# III. Strengthening the Corporate Infrastructure

(1) Corporate Governance Framework

(2) Establishment and Spread of Compliance Activities

(3) Systematic Investment and Financial Activities

(4) Revitalizing Human Resources

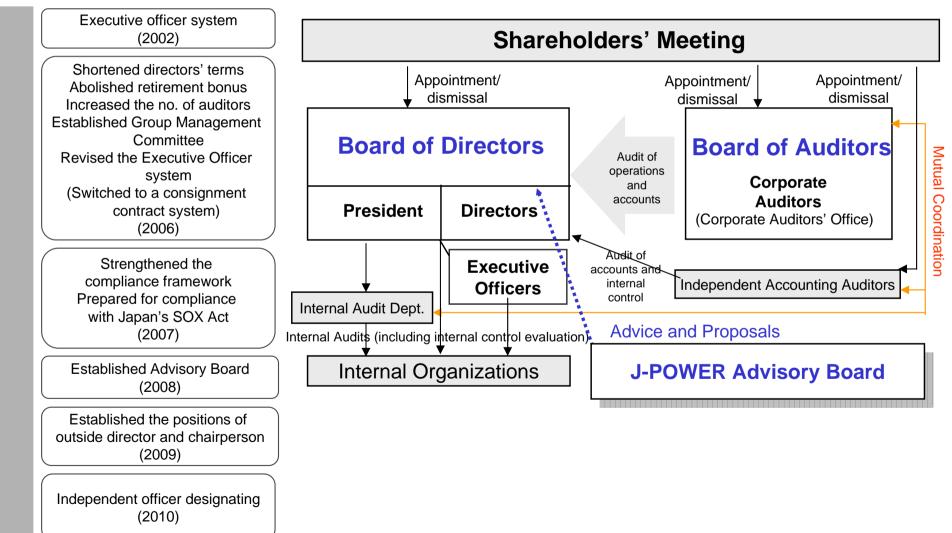
(5) Group Management for Increasing Consolidated Corporate Value

(6) Safety Initiatives and Trust

# (1) Corporate Governance Framework



### Maintain a governance system with close cooperation between the Board of Directors and the Board of Auditors

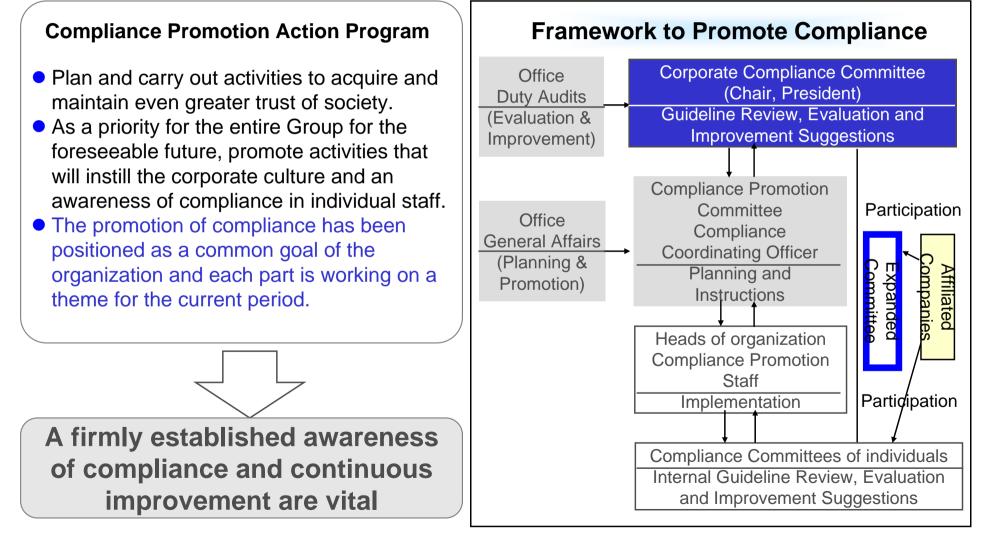


# (2) Establishment and Spread of Compliance Activities

#### 9

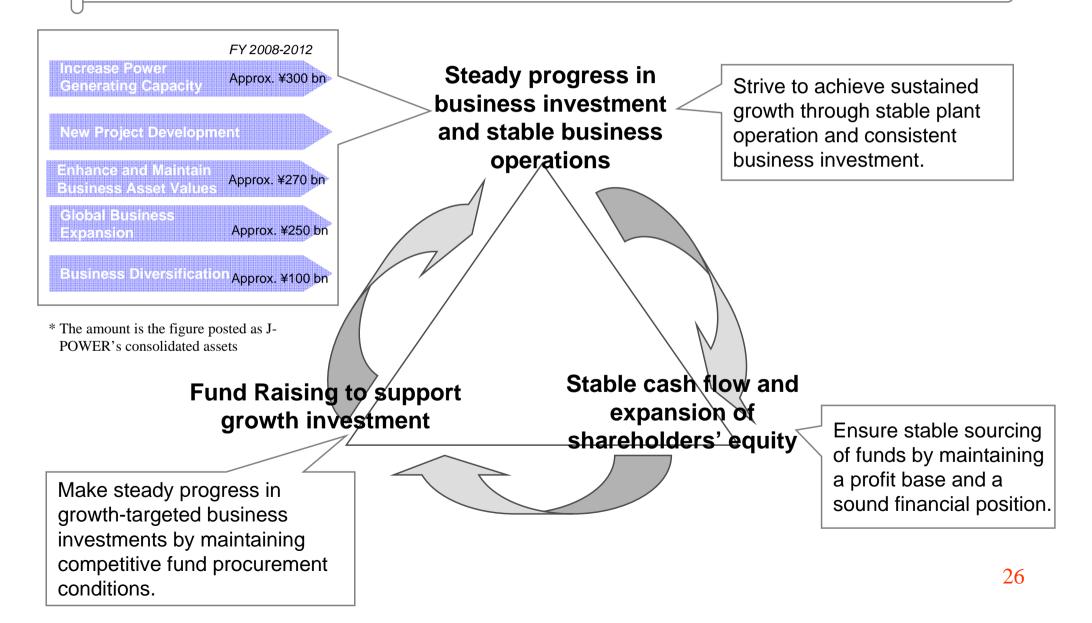
POWER

# ✓ Maintaining the trust of society is a major premise of corporate activity. ✓ Promotion of activities by the Group as a single unit.



## (3) Systematic Investment and Financial Activities

### ✓ Steady progress is being made in business investments targeting growth. Ensure stable procurement of funds.



# (4) Revitalizing Human Resources



## ✓ Human resources are the foundation of corporate sustainability.

### **Securing Human Resources**

- Establish an HR base consisting of a small number of sharp, independent individuals to support sustainable growth
- HR diversification that responds to changes in the environment.

### Human Resource Development

- Practical skills that allow the modification and expansion of business opportunities.
- Strengthen CDP, which supports the maintenance and improvement of technical abilities (Rotation, OJT, Off-JT, etc.)
- Training future leaders

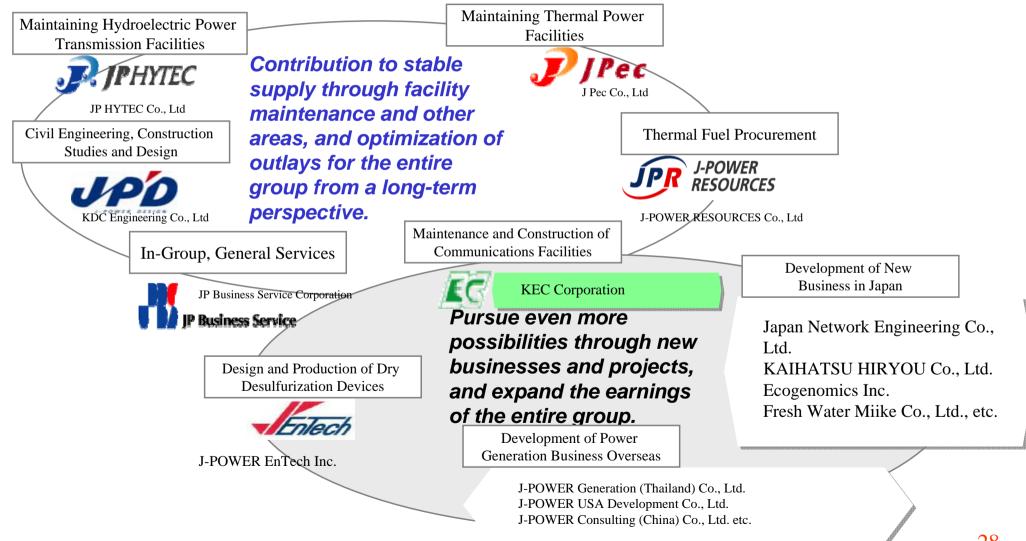
Enable all employees, regardless of age or position, to serve as professionals over the long term

# Establish an environment for revitalizing human resources

- Build a work environment where the employees do rewarding work.
- Promote a work/life balance
- Establish a work environment and system regardless of age or sex.

## (5) Group Management for Increasing Consolidated Corporate Value

# ✓ Groups of specialists that are "Experts in their areas." ✓ Contributing to Consolidated Corporate Value through their Individual Roles.



# (6) Safety Initiatives and Trust



## $\checkmark \mbox{Responding to Society's Trust in the J-POWER Group}$

#### Meeting Regional Environmental Challenges

- Expand environmental management targets significantly, aimed at ongoing activities. Promote activities aimed at achievement of group-wide targets.
- Limit emissions of sulfur oxides (SOx) and nitrogen oxides (NOx) using world class technology for coalfired thermal power generation.
- Promote the recycling of industrial waste and thoroughly implement proper processing aiming for a sustainable society and promoting green procurement activities.

#### Prevention of Workplace Accidents and Promotion of Employee Health and Safety

- Prevent workplace accidents with group safety activities.
- Establish safety culture and heighten safety awareness through more active workplace communication among relevant parties.
- Promote the prevention of ill health through THP activities including special diagnoses, health guidance and support.
- Maintain and administer good workplace health through mental health care and the prevention of contagion.

#### Expansion of Crisis Management System

 Initiatives for responding appropriately to a crisis along with accurately grasping risks surrounding business.
 Set up a permanent Crisis Management Team, have each organization appoint a crisis management supervisor and respond to crises rapidly.

Disaster Prevention Subcommittee: Plan for earthquake reinforcement of power plant facilities, company housing, dorms and the like in preparation for a large-scale earthquake.

Overseas Crisis Management Subcommittee: Gather safety information at overseas sites, offer safety and emergency response training and set up an emergency response system.

### Reinforcement of Data Security

 Promote Ohma Nuclear Power Plant, in addition to existing businesses and reinforce data security, which supports the global development of business.

Strengthen prevention/discovery functions and develop data security to prevent problems before they occur.

Strengthen data security system and cooperation throughout the group.



# IV. For Achieving Sustainable Growth

Under the corporate philosophy we have set for ourselves, we will carry out our responsibility to society and respond to the expectations of our various stakeholders, who support the company.

Corporate Philosophy	Theme	Description
Sincerity and pride underlie all	Reliable supply of electric power	Maintenance of suitable facilities in order to be "always available." (p.17)
our corporate activities.	Full internal controls	Full corporate governance system (p.24) Thorough and consistent compliance. (p.25)
	Winning society's trust	Encouragement of proper disclosure of information. Consideration of safety and security in all business activities.(p.29)
We build community trust by harmonizing our operations with	Attention to global environmental matters	Reduction in unit CO <sub>2</sub> emissions (*) Maintenance and improvement of thermal efficiency in thermal power generation. (*)
the environment.	Attention to global environmental matters	Limiting of SOx, NOx and other emissions. (*) Promotion of waste product recycling. (*) Preserving Biodiversity. (*)
Profits are a growth source, and we share the benefits with	Return to Shareholders	Continuation of reliable dividend and improvement commensurate with fruits of growth. (p.32)
society.	Contribution to society	Establishment of "View of J-POWER Group Corporate Contribution Activities" (p.33)
We continually refine our knowledge and technologies to be a leader in these areas.	Human resource training	Improvement of effective work capacity through enrichment of basic and expert knowledge. (p.27)
	Promotion of innovation	System organization and training of human resources that foster the creation of new concepts. (p.27)
We meet the challenges of	Rich workplace environment	Promotion of work/life balance. (p.27)
tomorrow by harnessing our unique skills and enthusiasm.	Diverse human resource activities	System and work environment where employees can play active role, regardless of age or sex. (p.27)

\* For more about the J-POWER Group's Environmental Management Targets, please refer to our home page or the "Sustainability Report."



# We will seek to further enhance profit distribution to shareholders, reflecting the results of growth.

### Our Views on Returns to Shareholders

- The most prominent characteristic of our business is that we secure returns on our investment in power plants and other infrastructure through the long-term operation of these facilities, utilizing our well-established enterprise management expertise, including the construction of power plants and other infrastructure.
- Business results achieved over the long term constitute the source of returns to shareholders. In view of the characteristics of our business, we place the utmost importance on a sustainable dividend policy.
- Moreover, we will make long-term efforts to enhance our corporate value on an ongoing basis. Then, reflecting the results of growth, we will seek to further enhance profit distribution to shareholders.



 We will strive to improve our profit-earning capacity by developing new business, etc., despite the severe business environment, increase shareholder value, and maintain stable dividends.

# View of J-POWER Group Corporate Contribution Activities

POWER

### ✓ We have established a basic concept that allows the Group to contribute to society as part of our CSR promotion

We at the J-POWER Group, led by a corporate philosophy that views "We build community trust by harmonizing our operations with the environment" and "profits area a growth source, and we share the benefits with society" will strive, as a member of society, to develop a healthy society, to seek sustainable development and to participate in activities that contribute to society for a long time.

Based on the following two main themes for our activities, we will speak to people of the local communities as well as those who strive for the harmonization of energy and the environment. Together we will place importance on learning and contributing to each other's wisdom and steadily support the volunteer activities that our employees engage in.

#### "Together with the local community and society"

Our corporate activities are supported by people of the communities where we have power plants. Just as our employees as individuals aspire to be good citizens in their communities, each of our J-POWER offices also aspires to be useful to the community and society as a good corporate citizen. By being trusted by the people in the community and promoting activities will foster close relations with the people in communities, we will strive to live as members of a community and to grow together with society.

#### "Harmonization of energy and environment"

In order for people to lead happy lives, they need two things: energy to support their lifestyles and a better environment. We intend to make use of findings we have made concerning the environment, developed through our business activities and work together with a wide variety of people seeking to harmonize energy and the environment. Through technology and attitudes that value energy and the environment, we will contribute to the development of a sustainable Japan and a sustainable world.

- Corporate contributions to society can be defined as, "Voluntary work on social challenges in which resources or expertise are offered to help resolve said challenges without seeking direct compensation" (\*).
- Guided by this creed, the J-POWER Group will bear in mind the two ideas of "working with the local community and society" and "aiming to harmonize energy and the environment" as its two main themes for activities. In doing so, we will focus our attention on (1) continuity, (2) a spirit of volunteerism, (3) cooperation, and (4) transparency as we continue our efforts to contribute to society in a way that befits the J-POWER Group.

<sup>\*</sup> From "Activities that Contribute to Society in a CSR Era" by the Committee to Promote Social Contributions of Nippon Keidanren.



This material contains statements that constitute forward-looking statements, plans for the future and management targets, etc. relating to the Company and/or J-POWER group. These statements are made based on certain assumptions of future events, and there exist possibilities that such assumptions are objectively incorrect and that actual results may differ from those in the statements as a result of various factors.

Furthermore, information and data other than those concerning the Company and its subsidiaries/affiliates are quoted from public information, and the Company has not verified and will not ensure its accuracy or appropriateness.