

2030 Long-term Management Vision and 2020 Medium-term Management Plan

March 2017

Osaka Gas Co., Ltd.

INDEX



2030 Long-term Management Vision

Steps toward the achievement of our 2030 Corporate goals

2020 Medium-term Management Plan

Individual business strategy, Management index

new slogan heading toward 2030	2
Osaka Gas Group's principles will remain unchanged in 2030	3
2030 Corporate Goal	4
Steps toward the achievement of our 2030 Corporate goals	6

Individual business strategy	15
Management index of the medium-term management plan for 2020	21
2017 Income and budget plan	22

Business domain and direction of business activities toward fiscal 2030



We will take dramatic changes in the future of energy (including the full deregulation of energy markets) as opportunities to use three approaches to overcome all obstacles.



- An innovative energy & service company soaring from this era to the next -

Going beyond customers' expectations	Always try to provide services that go beyond customer expectations
Going beyond business borders	Expanding business into areas that contribute to social, regional and customer development
Going beyond company borders	Actively promoting alliances and M&A, and broadly expanding business in Japan and overseas

Osaka Gas Group's principles will remain unchanged in 2030



Based on its management philosophy, consisting of "corporate motto," "Osaka Gas Group's Goal" and "Osaka Gas Group's Declaration," the Group vows to concretize "three guide principles" toward fiscal 2030.

Corporate motto

Service First *1

Osaka Gas Group's Goal

To be a corporate group that helps peoples' ways of life and businesses to evolve

Osaka Gas Group's Declaration

Osaka Gas Group works to create four types of value

Value for Customers

Value for Society

Value for Shareholders Value for Employees

We will continue to develop and deliver high quality service to our customers in the Kansai region

- Expansion of business development area
- Our business and services will grow to make full use of our strengths

Remain a professional group that is always innovating and constantly trying new things

- A high level of security and a stable & secure supply of products & services
- Innovative products & technology development, engineering

To continue to acquire the confidence of our investors, partners, community, and employees

- Reinforce competitiveness by promoting efficient management
- Management that takes global ESG*2 standards into account
- An organization & workplaces where all group employees can work happily and remain healthy

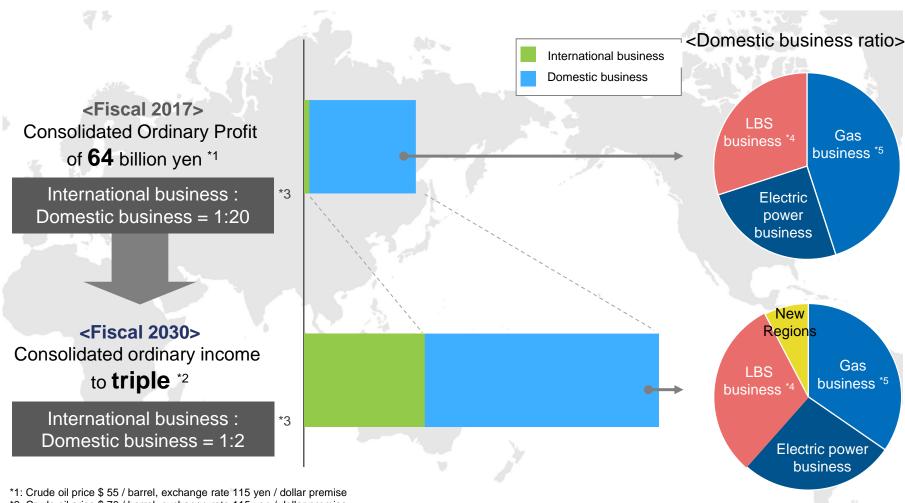
^{*1:} Osaka Gas Group's Management Philosophy: http://www.osakagas.co.jp/company/about/brand/index.html

^{*2:} ESG (Environment, Society, Governance)

2030 Corporate Goal



The Osaka Gas Group will embark on the challenging task of tripling its consolidated ordinary income in fiscal 2030 compared with fiscal 2017 by expanding overseas operations as well as domestic operations.



^{*2:} Crude oil price \$ 70 / barrel, exchange rate 115 yen / dollar premise

^{*3:} On the basis of consolidated ordinary income

^{*4:} Life & Business Solutions

^{*5:} Gas business income includes the sale of LNG and equipment



Support Osaka Gas Groups' three business pillars

Domestic energy business

International energy business

Life & Business Solutions (LBS)

The three pillars will be realigned into nine business sectors. By strengthening each sector, the Group will establish a solid portfolio that can respond to various environmental changes toward fiscal 2030.

Developing our domestic energy business in a new era

- (1) Gas manufacturing / sales *
- * Includes LNG sales and equipment / service sales, etc.
 - 2 Supplying gas
 - 3 Electric power generation / sales

Accelerate our international energy business development

- Overseas upstream and trading
- 5 Overseas middle and downstream

9 New regions · others

Expansion and development of new LBS business areas

- 6 Urban development
- (7) Materials
- (8) Information

Developing energy markets in a new era

We will strive to achieve sustainable growth by going beyond our current business - corporate framework and our customers' expectations, with activities like extending our energy-related services and expanding beyond the Kansai region.

Comprehensive proposals for energy & services



*1: Total number of contracts for city gas, electric power, LPG, Ene farm, Sumikata service, utility supply agent etc.

Going beyond customers' expectations and business borders

Comprehensive proposals for energy & services

- Expand electric power and LPG businesses in addition to our city gas supply business
- Provide comfortable daily lives by our living support service
- Provide maintenance, administration, procurement of energies to custoerms as a bulk as an utility supply agent *2

Going beyond company borders

- We will continue to develop and deliver high quality service to wider region of which we cultured in the Kansai region.
- Promote new businesses (M&A etc.) in the energy related fields

^{*2:} Registered trade makrs of OGCTS Co., Ltd. And Osaka Gas Co., Ltd. We provide facilities related to utilities (gas, electricity, water, etc.) and offer them to customers on a bulk basis.

SAKA GAS

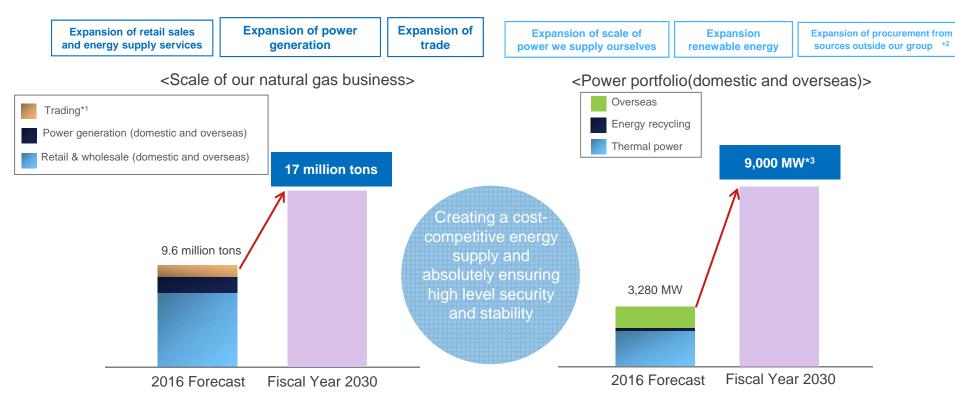
Expanding our domestic and inteanational energy business (gas & electric power) energy business (gas & electric power)

Expanding volume of natural gas (including LNG) handled both domestically and overseas due to retail, energy services, trading etc.

Build a competitive power portfolio including procurement from market and other companies.

Gas (including LNG) sales & trading business

Power generation & electricity sales



^{*1}Including sales of LNG to domestic and international energy businesses and handling of LNG bases abroad

^{*2}Including negawatto power deal

^{*3}Consideration will be taken regarding company procurements in the current market, depending on the state of the country at that time



Accelerate our international energy business development

Focusing on the priority areas of North America, Asia, and Oceania we will promote business expansion (upstream, middle and downstream) by maximizing the know-how we cultivated here in Japan, and thus we will proceed overseas, building on our existing business foundation.

Strengthen each business area to strengthen the profit bases of our international energy business

Upstream · trading business

Gas field / oil field development project

LNG trading business

Middle & downstream business

LNG terminal business

LDC business *2

Retail business & energy service

Domestic business know-how



natural gas power plant



LNG terminal



Fuel conversion



IPP business

Fleet operation

International business base at present



USA: Freeport LNG base (under construction) *3



USA: St. Charles IPP



City-OG Gas Energy Services



OSAKA GAS THAILAND

Our business development policy

- 1 Concentrated management resources, concentrated business zones, priority areas within each zone
- 2 Speed up business development by collaborating with other companies and executing M & A
- Increase business involvement and improve our business promotion skills (in terms of promoting talented employees, building a speedy decision-making system, etc.)

^{* 1:} Independent Power Producer

^{* 2:} Local Distribution Company

^{* 3:} Freeport LNG Development, provided by L.P. (complete projection drawing)



Expansion of LBS business and development of new LBS business areas

Urban development business>



Our corporate group aims to be active in a variety of areas such as leasing, sales and maintenance, <u>not only in the Kansai region but also, through business expansion, in the Tokyo metropolitan region.</u>

- We will accelerated the growth of our leasing business, thanks to new office investments in the metropolitan area (value of leased assets: about twice that currently held)
- Condominium development business: Entering the Tokyo metropolitan region
- Secure our position as the top class company in building maintenance in the Kansai region

<Materials business>



<u>The main battlefield is overseas, and we have a top-level position in this niche market</u>. We intend for our functional materials manufacturer group to continue contributing heavily to industry, human life essentials and the environment.

- Expand business to about 10 to 20 projects with sales of 10 billion yen (Currently we have 5 projects ongoing)
- Scale up to attain the 30th place among listed Japanese chemical manufacturers (Current status 80th)

<Information business>



We aim as a corporate group, to uses <u>our advanced ICT innovation</u> to provide new sources of value to our customers and grow sustainably with them.

- Expand business scale by expansion of value-added proposal business.
- We can provide more high quality services: IoT*1, Big Data Analysis, and Utilization of AI *2 to Osaka Gas Group customers (both business and household) by cooperation of our group companies.

New Regions

We will promote new energy business <u>development in the surrounding area and intend to build new business pillars in the domestic energy field.</u>

 Construction of <u>business with ordinary income of more than 10 billion</u> yen, such as cryogenic temperature / industrial gas · building maintenance · ESCO · water treatment · life service · equipment sales · remodeling

^{*1:} Internet of Things

^{*2:} Artificial Intelligence



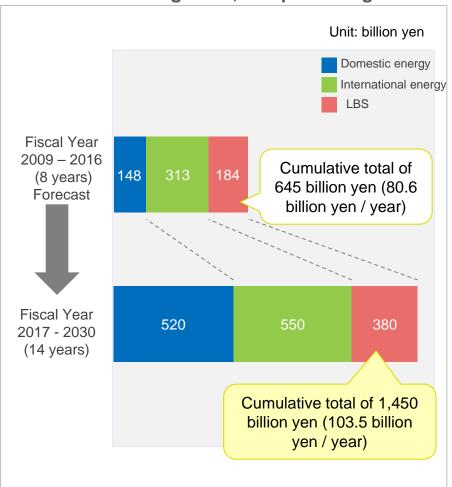
Growth investments & promoting M&A

In order to achieve our Corporate goals, by FY2030 we will put a cumulative total of 2 trillion yen into quality improvement investment, growth investments and M&A.

Quality improvement investment

Unit: billion yen Domestic energy Fiscal Year 2009 - 2016Cumulative total of 385 (8 years) 385 billion yen (48.1 billion yen / Forecast year) Fiscal Year Cumulative total of 550 2017 - 2030 550 billion yen (39.2 (14 years) billion yen / year)

Investments for growth, and promoting M&A



S OSAKA GAS

Innovations that exceed our customers' expectations

We will continue to offer products and services that exceed our customers' expectations by incorporating the latest technologies, such as ICT *1, our utilization capacity, engineering prowess, IoT and other technologies and the development capabilities that we have accumulated over the years.

*1: Information and Communication Technology

ICT

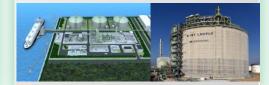
- Providing new services by converting equipment and equipment to IoT
- Al utilization · Provide added value by big data analysis (failure prediction, energy saving advice etc.)
- Provide power aggregation service (VPP *2, local energy production and consumption, etc.)



*2: Virtual Power Plant

Engineering

- Overseas development of LNG terminal construction and engineering operations
- Improve infrastructure security
- Develop measures to combat global warming and take steps toward a low carbon society (using hydrogen, biogas, etc.)



Product & technology development

- Highly efficient small ene farms
- Technologies compatible with ZEH / ZEB *3
- Innovative energy-saving technology
- Cutting edge materials such as biomass plastic



*3: Net Zero Energy Houses/Buildings

Our products and services going beyond customers' expectations



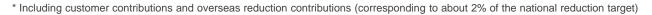


As a corporate group that conducts business globally, we intend to intensify our CSR efforts and meet global standards while taking ESG into account.

Environment: Environmentally-aware management

- Introduce highly efficient energy equipment (fuel cells, cogeneration techniques, etc.) to customers and provide energy services
- Conversion to clean-energy natural gas, Introduce energy saving technology
- Develop and introduce state-of-the-art thermal power plants and renewable energy sources (biomass · wind power · solar, etc.)





Promote environmental management by taking account of the circulation of resources, biodiversity and the safety of chemical substances etc.



Solar power Cogeneration generation



Fuel cell

Social: Community consideration by management

- · Activities in accordance with international norms, such as the Global Compact
- The promotion of activities throughout the entire value chain, such as efforts related to human rights
- Collaboration within the community (social planning activities, local communication activities, town planning, etc.)

Governance: Enhance governance

- Promote dialogues with stakeholders
- Disclosure of ESG information based on global standards Diversity of employees and executives
- Sound business style

- Information security countermeasures





To keep its operations sound, the Osaka Gas Group will endeavor to change its employees' mindset on working and to promote their work reform. It will also strive to improve business conditions surrounding them to realize the goal.

Continuing the Osaka Gas Group on a healthy path

Attracting talented people with diverse values to build a workplace where employees can have a sense of pride, and productive, creative ways of working.

Conscious changes

✓ Oneself

By taking ownership, being aware of needs for self-improvement and being selfmotivated we will strengthen the Osaka Gas Group of the future!

✓ Promptness

Rather than slowing down and aiming for perfection, increase speed but work wisely and efficiently!

✓ Flexibility

Always be read to incorporate new perspectives through exchanges with others and transform one's thinking into competition an cooperation!

√ Go beyond the boundaries

Don't be bound by existing constraints; think beyond the boundaries and pursue growth through accepting new challenges!

A highly productive, creative way of working

- Developing human skills that can play an active global role
- Shifting people to highly creative work, make work more efficient by the use of ICT, etc.
- Improve the quality of people's work immediately by sharing advanced know-how
- Foster a culture that recognizes diversity and create an attractive workplace that draws people to it.

Improving work environment

Collaboration

Promote the value of cooperation among diverse individuals and companies

Diversity

Provide fair opportunities regardless of nationality, age, gender, or residential area

Flexibility

Establish an environment and organization where people can work without being bound by place or time



Initiatives in the Medium-term Management Plan for 2020 that help achieve the Long-Term Management Vision for 2030

Solutions for residential customers



We will work to continue to be selected by customers to meet their various energy needs, such as for city gas, electricity, LPG, etc. by thoroughly responding to our highly-valued customers at points of contact such as by expanding our products, services and maintenance.

* Numerical values are targets for fiscal 2020

The variety of customers' needs



Expanding the number of customer accounts



Energy (city gas, LPG, electric power)



Point of contact with customers

(Osaka Gas Group, Alliance, Web, ICT Utilization etc.)



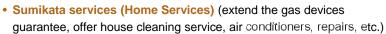
- Efforts by Osaka Gas service chains to solve problems and troubles facing customers and present optimal proposals in line with their wishes
- Expand the "My Osaka Gas membership website system (1.3 million homes)
- Present optimum proposals by using ICT at the contact center *1

Equipment

- Accelerate product development and ene farm products (to a total sales volume of 200,000 units)
- Ene farm type S surplus electricity can be back-fed to the grid and used by the electric power business
- Expansion of advanced / energy saving remodeling
- Increase revenue from equipment sales by expanding sales of highvalue-added equipment
- Achieve remote monitoring, failure prediction and service customization using gas equipment with IoT compliance

Services - Fees

- Establish a good price plan for electricity and gas
- Increase revenue by expanding the menu of the



 Provide services that exceeds customers expectations such as security and maintenance with enhanced qualities

Same-day completion rate *2 88%

Overall satisfaction rating *3 94%







- * 2: Percentage rate of repair completed on the day of the visit
- * 3: Total of how many "good" and "very good" ratings were given in a questionnaire

Solutions for business and industrial customers



We intend to continue to be selected by our customers by offering comprehensive electricity and gas services that meet diverse customers' needs.

* Numerical values are targets for fiscal 2020

The variety of customers' needs



Expanding the number of customer accounts

Energy (city gas, LNG, electric power)



Point of contact with customers

(Osaka Gas Group, Alliance, Web, ICT Utilization etc.)



- Concerted efforts by the Osaka Gas Group and its alliance partners to build a good relationship with customers
- Expand the Hello OG! membership website system (50 thousand contracts)
- Make sure the contact center responds appropriately to the customers' needs

Equipment

- Reverse flow of surplus power, electric power, and heat exchange system provided in a large cogeneration proposal
- · Develop highly efficient and low cost gas air conditioning
- Provide the Ene lex Premium air conditioning energy saving support service

 EneflexPremium
- Offer commercial fuel cells (SOFC) together with our power supply service

Services - Fees

- Expand and provide electricity & gas charging systems in accordance with customers' business styles and needs
- Expand energy service menu
- Energy service / Bulk management for buildings and facilities / Maintenance, etc. / Energy visualization and control using ICT etc.





Expanding into a wider area: Utilizing the fuel conversion to city gas that we developed in the Kansai region, introduction of cogeneration technology, etc., as well as a comprehensive proposal of energy & services

Medium-Term Management Plan 2020

Build a competitive power portfolio



Build a system that responds flexibly to supply and demand fluctuations by combining markets and other company's power supplies while promoting the development of new power sources, such as LNG, coal fired power and renewable energy

Directions in electricity procurement

- The development of our own competitive, highly efficient thermal power
- Expansion of renewable energy power supplies
 - · Promoting biomass, wind power and solar projects
- Procurement that balances competitiveness, environmental friendliness and flexibility
 - Flexible choice of external power sources according to market price forecasts and supply

Major current regeneration power generation source

generation source

Major current thermal power

Fukushima Gas power generation

New LNG-power plant with Mitsui & Co. Ltd., Mitsubishi Gas Chemical Company, Hokkaido Electric Power Company (1,180 MW)

Himeji natural gas power generation

Considering the new establishment of Idemitsu Kosan and LNG-fired power plant (1,000 to 1,800 MW)

Nakayama Nagoya joint power generation

Coal-fired power generation is being installed at a biomass mixed-rate of 30% (110 MW)

Inami wind power generation

Wind power plant under construction (26 MW)

Yamaguchi Ube Power

Establishment of a new coal-fired power plant with Ube Industries Power Development Division is currently under-consideration (1,200 MW)

^{*} Listed only the cases announced by the press release

S OSAKA GAS

Deployment of as a gas pipeline operating company

As a gas pipeline operating company, while continuing to provide safety, we aim to expand the popularization of city gas. Therefore, we will improve the duct network by cooperating with marketers while ensuring business neutrality and transparency.

Support the gas business by providing security and safety

Improve safety and disaster prevention standards

- Improve security levels and pursue the goal of zero accidents
 - Improve our emergency response level
 - Continue reducing serious accidents to zero
- Advancing disaster response
 - Segmentation of supply depot areas
 - Improve our disaster recovery operations

Expand the popularization of city gas

- Collaborating with marketers
 Maintaining the pipeline network
 - Improve the convenience of transportation service
 - Promote stable supplies
 - Ensure neutrality and transparency

Formation of facilities based on long-term plans

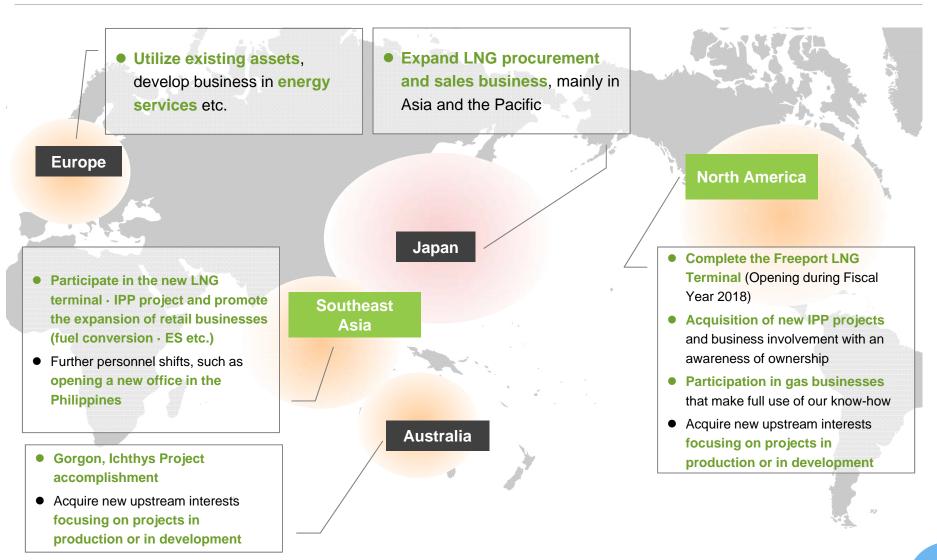
- Maintenance of high-voltage line networks
 - Maintenance of the Himeji East-West link pipe
 - Review the Amagasaki Seishin Line
- Achieving our safety advancement goals
 - Eradication of gray cast iron pipes (FY 2024)
 - Earthquake resistance rate of 90% by end of year 2025



SAKA GAS

Key points for strengthening our international energy business

In addition to launching and completing projects, we will work to expand our business scale, focusing on businesses that can benefit from existing assets and know-how in areas where economic growth is expected.





LBS Business, Key Points for Improvement in New Areas

Through organic growth and growth investments, we will establish the LBS business as an area that is aligned with the energy field, and we will also actively engage in M & A in new regions.

<urban business="" development=""> osaka gas</urban>	Leasing Business: Building management:	Establish an organization for new office investment in the Tokyo metropolitan region Strengthen business by proposing services such as energy	【Net Sales】 (Simple Total) FY2016 Forecasts: 44.1 billion yen
URBAN DEVELOPMENT	Danaing management	conservation and facility construction	
	Kyoto Research Park:	Attract key new tenants and aim to develop a new building	FY 2020 Assumption : 52 billion yen
<materials business=""></materials>	Activated carbon:	OG Chemical and Jacobi to collaborate and expand the global value chain	【Net Sales】 (Simple Total)
OSAKA GAS CHEMICALS	Preservatives:	In addition to xyladecor, a recently developed anti-virus / coating agent	FY2016 Forecasts: 71.3 billion yen
	Fine materials:	In addition to optical lens resin, fluorene will be developed for various purposes	FY 2020 Assumption : 90 billion yen
<information business=""></information>		ology (Al for call centers, detection and prediction or oT, etc.) Creation of group synergies · Expansion of profits	【Net Sales】 (Simple Total)
∛ogis-ri	Expansion of non-grosectors	oup earnings centering on finance, manufacturing and energy	FY2016 Forecasts : 66.1 billion yen
			FY 2020 Assumption : 70 billion yen
	• Ctrongthon our life of	le contine business by responding to changes in the market	
New regions · others	environment, such as Sports • Promote reorganizatio	le service business by responding to changes in the market the opening of a 24-hour fitness gym (FITBASE 24) by OG in and strengthening of new company M&A and existing c and international energy businesses, LBS businesses and	[Examination of projects in new areas] Water treatment, Building maintenance, Industrial gas, Life-style service etc.
	peripheral fields	evelopment Department established in FY2017	

Medium-Term Management Plan 2020



Management index of the medium-term management plan for 2020

We will continue to work to improve profitability by strengthening our international energy and LBS businesses. On the other hand, because the uncertainty of domestic energy business is increasing we must maintain great financial soundness.

Т		Plan for Fiscal 2017	Plan for Fiscal 2020	
	ROA	2.3%	3.5%	
Profitability index	ROE	4.5%	7.0%	
	EBITDA*1	157 billion yen	200 billion yen	
Shareholder returns	Payout ratio	30% or higher *2		
Financial	D / E ratio	Approximately 0.7		
soundness index	Shareholder's equity ratio	Approximately 50%		

^{* 1:} EBITDA = Operating income + Depreciation cost + Amortization of goodwill + Equity in earnings/ losses of affiliated companies

^{* 2:} Excluding short-term profit fluctuation factors

Fiscal year of 2017 income and budget plan



A decline due to a decrease caused by the complete freeing of the city gas business and an decrease in profit from automatic increases, although covered by earnings growth due to the acquisition of more power customers, we estimate to reduce the whole consolidated ordinary income to 64 billion yen, less than the 29 billion yen that was the prospect for the previous year.

Premise: Crude oil price (JCC) 55 dollars / barrel, exchange rate 115 yen / dollars

	Consolidated		ed Non-Consolidated		·	
	Forecasts for Fiscal 2016 (billion yen)	Plan for Fiscal 2017 (billion yen)	Rate of change (%)	Forecasts for Fiscal 2016 (billions yen)	Plan for Fiscal 2017 (billions yen)	Rate of change (%)
Net sales	1,159.5	1,344.5	+16.0%	886.5	1,053.5	+18.8%
Operating income	95.5	66.5	-30.4%	55.5	28.0	-49.5%
Ordinary income	93.0	64.0	-31.2%	69.5	35.0	-49.6%
Net income	64.5	42.5	-34.1%	54.0	27.0	-50.0%
ROA	3.5%	2.3%				
ROE	7.0%	4.5%				
EBITDA	185.0	157.0	-15.1%			

	Non-Consolidated			
	Forecasts for Fiscal 2016 (billion m³) Rate of change (%)			
Sales volume	8.52	8.12	-4.7%	

Sensitivity of ordinary income due to fluctuations in crude oil prices and exchange rates

Crude oil price 1 dollar / barrel	0.99 billion yen
Exchange rate 1 yen / dollar	0.96 billion yen



Disclaimer

This document contains forward-looking statements, plans, strategies and other forward-looking statements, which are based on the judgment of the Group from currently available information.

Please be aware that the actual results may differ materially from these forecasts due to various important factors.

Important factors that may affect the actual results include trends in the Japanese economy, rapid fluctuations in exchange rates and crude oil prices, and unusual weather conditions.

Reference materials

Osaka Gas Group's long-term management goals (important management tasks)



Items	Target levels
(1) Expansions of business areas ·	 Domestic energy: sell and manufacture city gas / gas supply / sell and generate power / new areas, international energy: overseas upstream · trading / overseas middle and downstream, LBS: Urban development / materials / information / new areas · etc." In addition to achieving growth in an area, we will establish a robust business structure to protect against business risks such as oil price fluctuations.
Expansions of service	Osaka Gas Group will provide high quality services such as electricity supply, LPG supply, living environment support and business support, as well as a city gas supply, and profits will be extended.
	We will promote further business development in broad domestic regions and overseas strategic areas.
(2) Providing security and safety as an inovative energy group professional	We will make prompt use of the world's technological progress, continue to commercialize our proprietary developed technology and take on new initiatives, and will continue to provide safe, secure and high-quality services on an ongoing basis.
(3) Gaining confidence by improving corporate and business quality	We exercise high-quality management through business activities that result in our continually being chosen by our customers, business activities that take compliance into account, and sustainable business activities that take the global environment into consideration.
(4) Increasing corporate value	
① Improved asset and capital efficiency	● EBITDA *1, ROA, ROE with the goal of continuously improving the profit ratio
② Shareholder returns	 While taking as the basis the continued provision of stable dividends, we will make decisions based on comprehensive consideration of other profit sharing measures, including the purchase of treasury stock, based on business results and future management plans.
	The payout ratio is within the range of Osaka Gas' individual surplus distributable amount, with the goal of a consolidated dividend payout ratio of 30% or more, excluding short-term profit fluctuation factors.
③ Maintaining financial soundness	 In addition to maintaining quantitative risk volume management, we maintain a capital adequacy ratio of about 50% and D (interest-bearing liabilities) / E (equity capital) ratio of approximately 0.7 in the medium to long term.

^{* 1:} EBITDA = Operating income + Depreciation expenses + Amortization of goodwill + Equity in earnings of affiliated companies

Osaka Gas Group's long-term business goals Concrete goals



Long-Term Business Goals		Forecasts for Fiscal 2016	Medium-term Business Plan for Fiscal 2020	Long-term Management Vision for Fiscal 2030
	Power supply capacity*2	3,280 MW	\rightarrow	9,000 MW
Expansion of business areas	Number of customer accounts	Approximately 8 million homes	\rightarrow	10 milion homes or more
	Natural gas business scale	9.6 million tons →		17.0 million tons
Quality improvement	Customer satisfaction at each contact point	93%	94%	95%
Security · Safety	Security and safety regarding gas pipeline and the manufacturing and power generation business			ts to zero
Environment · CSR	CO2 emission reduction amount *3	-	Approximately 7 million tons	Approximately 70 million tons
Investments	Investments for growth	-	520 billion yen	1,450 billion yen

^{*1:} Depending on the country's institutional design conditions, etc. and considering shifts in the market · procurement from other companies

^{*2:} Cumulative reductions from 2017 to 2020 and cumulative reductions from fiscal 2017 to 2030 (compared with FY 2016)

^{*3:} Cumulative total investment from Fiscal 2017

Assumed investment scale of medium-term 2020 management plan



		Plan for Fiscal 2017	Cumulative total for Fiscal 2017 – 2020
	Domestic energy	25	200
Growth investment	International energy	71	214
M&A	LBS	26	106
	Total	122	520
Quality im	nprovement investment	46	180
Total a	mount of investment	168	700

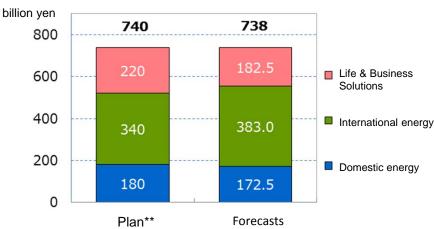
(Unit: billion yen)

Review of current long-term vision (FOD) * during the period (2009-2016)



We will start full-scale operation of electric power, international energy and LBS businesses to establish earnings outside our Kansai regions gas business, to prepare for intensifying competition, promote diversification of profit sources by strengthening peripheral services and strengthening cost competitiveness.

10.3 -17.3 Period (8 years) Progress of our investment plan (cumulative decision-making base)



Cost reductions / Staff efficiency improvements (individuals)

	2009 Achievements	2013 Achievements	2016 Forecasts
Expenses (billion yen)	186.6	180.9	170.1
Number of employees (Including temporary employees)	6,924	6,735	6,044

^{**} Current mid-term management vision "Catalyze Our Dreams"

Achievements in the FOD period

- Active involvement in the power supply construction plan (including regenerating power that utilized FIT) and entry into the retail power business
- Himeji Okayama Gas Pipeline, Mie Shiga Gas Pipeline etc. Steady supply by promoting the trunk line pipeline · Promotion of demand development
- Steady promotion of earthquake and tsunami countermeasures in the supply and manufacturing
- Development and sales of Ene farm type S (52% of the world's highest level of power generation
- Development and strengthening of peripheral services other than gas and electricity (Sumikata Services etc.)
- 2 Development and strongthening of peripheral convictor than gas and distinctly (summata services stor)
- Expansion of wholesale business and promotion of wide area deployment in industrial fields by ESP business etc.

Domestic energy

business

Ene farm type S

^{*} Current long-term management vision "Field of Dreams 2020"



Achievements in the FOD period

International energy business

Internalization of LNG transportation costs by expansion of the LNG fleet and



- Participation in upstream projects such as the Gorgon & Ichthys project
- Participation in the Freeport LNG project
- Participation of mid-downstream projects: St. Charles IPP, Erogasmet
 Spa. etc.
- Development of retail gas and energy service businesses in Singapore and Thailand



OSAKA GAS (THAILAND) CO..LTD.



<Materials business>

 Expand our business scale by promoting M&A, such as the acquisition of Jacobi Carbons

<Urban development business>

Life & Business

Solutions

- Expansion of leasing business profits through real estate investment
- Expansion of condominium business and building maintenance business by improving product strength and service levels

<Information business>

 Expansion of development projects that make full use of our strengths in such fields as energy, finance and manufacturing

<Others>

 Select and concentrate existing business, incubate new fields, such as observation buissiness, the UK water supply business

(Appendix) Osaka Gas' IPP investments in PJM



Core projects of Osaka Gas' US IPP business

*CPV: Competitive Power Ventures (Main Office: Silver Spring, Maryland, US)

	Fairview Project	Shore Project
Output	1050MW	725 MW
Technology	GE 7HA.02 2×1 CCGT	GE 7FA.05 2×1 CCGT
Efficiency	59%	56%
Location	Pennsylvania (PJM)	New Jersey (PJM)
PJ Status	Development (NTP: March 2017/ COD: March 2020)	Operating (COD: Jan 2016)
Current Ownership	CPV 70% Others 30%	CPV 58% Others 42%
OG stake	50% acquisition from CPV	20% acquisition from CPV
New Ownership	CPV OG 50% 20% Others 30%	OG 20% CPV 38% Others 42%

St. Charles Project		
725MW		
GE 7FA.05 2×1 CCGT		
56%		
Maryland (PJM)		
Operating (COD: Feb 2017)		
Toyota Tsusho		
OG 25% CPV 25% 25% 25%		
Marubeni		
Acquired 25% from Marubeni		

Plant Location & Pictures





<Project location map>



^{*}Currently, OG is finalizing the necessary documents with CPV for its acquisition of Fairview/Shore projects.