TSE:9531

## FY2017 2Q Financial Results ended Sep. 30, 2017

# TOKYO GAS

October 27, 2017

# 1. FY2017 2Q Consolidated Financial Results

ended Sep. 30, 2017

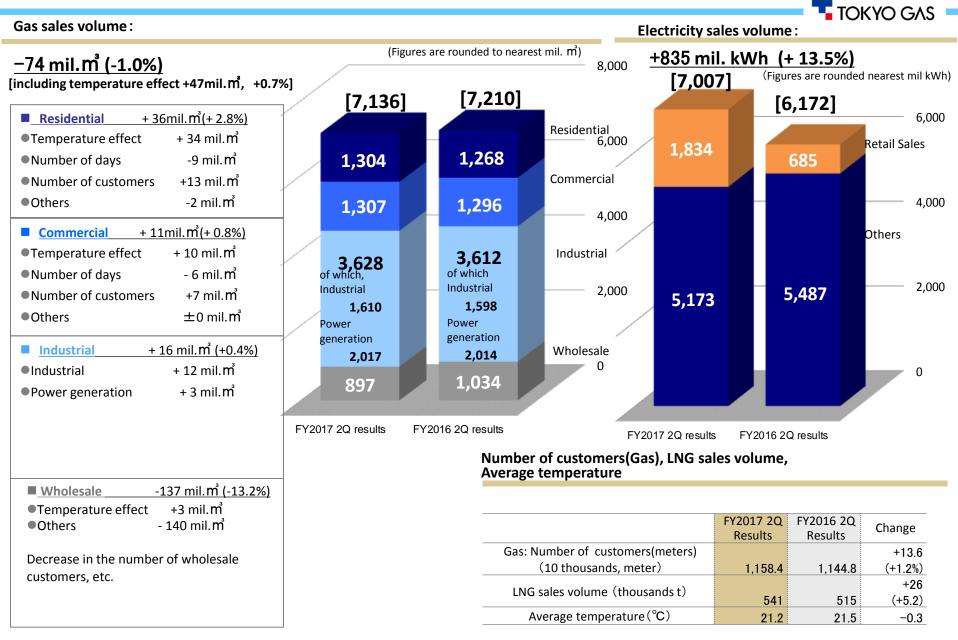


# FY2017 2Q Consolidated Financial Results (Apr. 1, 2017 – Sep. 30, 2017) <vs. FY2016 2Q>

Highlights: Sa	iles Up, Profit Up	(+ - , +/- indicate impact on profit, billion yen)
Net sales		due to resource cost adjustment +45.6, decrease in sales volume -2.0, etc.) ctricity retail sales volume, increase in unit sales price ) n upstream projects, etc.)
Operating expenses	ecrease in fixed costs due to ac Electric power (-29.5: Increase in elec	ng from economic framework assumptions, etc63.0, decrease in sales volume +3.2, ctuarial differences, etc.) tricity retail sales volume, increase in fuel costs due to increase in unit price,
Operating profit	+8.0 + Electric power (+4.6: Increase in gross + Overseas (+1.8: Increase in profit from	
Extraordinary profit/loss	+0.3: + FY2017 2Q 3.2: Gain on sale of non-c	current assets FY2016 2Q 2.9: Gain on sale of investment securities (billion yen)

						<u></u>	ion yon)
			FY2017	2Q	FY2016 2Q	Change	%
Gas sales volume	(million m <sup>3</sup> , 45MJ)			7,136	7,210	-74	-1.0%
Electricity sales vo	olume (million kWh)			7,007	6,172	+835	+13.5%
(Brookdown)	Retail sales	(million kWh, receiving	end)	1,834	685	+1,149	+167.7%
(Breakdown) Other sales (million kWh)			kWh)	5,173	5,487	-314	-5.7%
Net sales				790.3	707.7	+82.6	+11.7%
Operating expense	s			746.1	671.5	+74.6	+11.1%
Operating profit				44.2	36.2	+8.0	+22.1%
Segment profit (op	erating profit + equity i	income of subsidiaries	)	44.4	37.0	+7.4	+19.9%
Ordinary profit <sup>(1)</sup>				42.6	34.3	+8.3	+23.9%
Extraordinary inco	me/loss			3.2	2.9	+0.3	-
Profit attributable t	o owners of parent			31.9	26.4	+5.5	+20.6%
Temperature effect	<b>h</b> (2)			-1.7	-4.3	+2.6	-
Sliding time lag eff	fect (city gas, LNG sale	es) <sup>(3)</sup>		-12.4	8.8	-21.2	
Amortization of act	tuarial differences <sup>(4)</sup>			3.8	-12.0	+15.8	-
Adjusted ordinary	profit <sup>(1)-((2)+(3)+(4))</sup>			52.9	41.8	+11.1	+26.6%
Economic framework	Exchange rate (¥/\$)	Crude oil price (\$/bbl)	Avg. air temp. (°C)	_	Pension assets	Investment yield (costs deducted)	Year-end assets (billion yen)
FY2017 2Q	111.04	51.37	21.2		FY2017 2Q	, ,	· · · ·
FY2016 2Q	105.25(+5.79)	43.78(+7.59)	21.5(-0.3)		cumulative total	1.64%	278.0
Figures in parenth	heses () indicate year-or	n-year increase/decrease	).		Expected annual rate of	return: 2%	

#### FY2017 2Q Consolidated Gas / Electricity Sales Volume <vs. FY2016 2Q>



	FY2017 2Q Results	FY2016 2Q Results	Change
Gas sales volume (financial accounting basis)	7,136	7,210	-74 -1.0%
Gas volume used in-house under tolling arrangement	1,012	989	+23 +2.4%
LNG sales volume (m <sup>3</sup> basis)	677	643	+34 +5.2%
Total	8,825	8,842	-17 -0.2%

Gas sales volume (Vision Basis)

(Unit: million m<sup>3</sup>)

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#### FY2017 2Q Results : Sales and Operating Profit/Loss by Business Segments <vs. FY2016 2Q >

(unit : billion yen)

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	Net Sales				Segment Profit (Operating profit + Equity income/loss			bsidiary)
	FY2017 2Q Results	FY2016 2Q Results	Change	%	FY2017 2Q Results	FY2016 2Q Results	Change	%
City Gas	507.3	462.2	45.1	9.8	42.5	43.5	-1.0	-2.2
Electric Power	99.0	64.9	34.1	52.5	6.7	2.1	4.6	212.1
Overseas business	20.5	13.0	7.5	57.5	2.6	1.4	1.2	88.7
Energy-related	211.8	205.9	5.9	2.9	5.9	7.1	-1.2	-16.6
(Engineering Solutions)	52.3	49.0	3.3	6.6	1.5	1.7	-0.2	-11.8
(LNG sales)	51.7	45.8	5.9	12.9	0.6	4.5	-3.9	-85.7
Real estate	20.7	20.2	0.5	2.5	4.2	4.3	-0.1	-0.5
Others	41.7	38.9	2.8	7.2	1.3	0.7	0.6	79.6
Adjustment	-110.9	-97.5	-13.4	_	-19.0	22.2	3.2	_
Consolidated	790.3	707.7	82.6	11.7	44.4	37.0	7.4	19.9

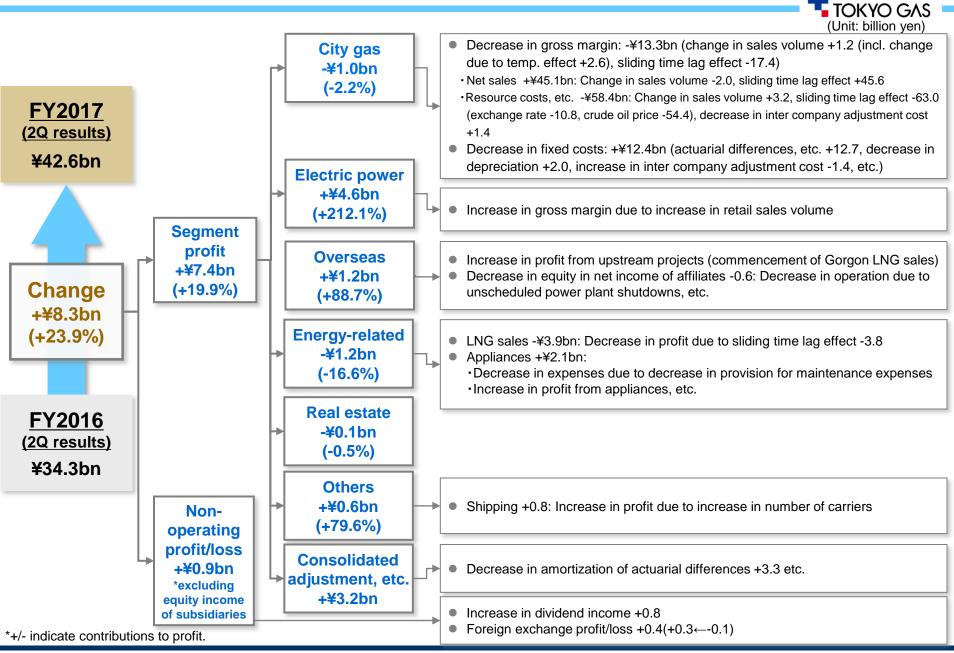
Notes: • Net sales by business segments include internal transactions.

• "Energy-related" includes businesses in engineering solutions, liquefied petroleum gas, industrial gas, LNG sales, gas appliances sales, gas pipe installation and construction etc.

• "Others" includes businesses in shipping, information processing service, credit and leasing, etc.

• The "Adjustment" to operating profit is primarily companywide expenses not allocated to individual segments.

#### FY2017 2Q Results: Ordinary Profit Analysis <vs. FY2016 2Q>



## 2. FY2017 Full Year Forecast



#### FY2017 Forecast (Apr. 1, 2017 – Mar. 31, 2018) <vs. Previous Forecast (Released July 28)>

#### Highlights: Sales Down, Profit Up on Previous Forecast (Released July 28) (+ -, +/- indicate impact on profit, billion yen)

• The economic framework reflects final figures for 2Q and assumes an exchange rate of ¥115.0 to the dollar and crude oil price of \$55/bbl from 3Q onward per the original forecast.

Gas sales volume reflects changes in 2Q results and is as per the previous forecast from 3Q onward.

Net sales	-13.0: - City gas (-14.8: Decrease in unit price due to resource cost adjustment, etc.)
	+ Electric power (+2.6: Increase in retail sales volume, etc.)
Operating	+17.0: + City gas (+17.2: Decrease in unit price arising from economic framework assumptions, decrease in depreciation, etc.)
expenses	- Electric power (-3.5: Increase in retail sales expenses, etc.)
Operating	+4.0: + City gas (+2.4: Decrease in depreciation, etc.)
profit	+ Other (+1.4: Shipping +0.7, etc.)
	- Electric power (-0.9: Increase in retail sales expenses, etc.) (billion yen)

	Current Forecast	Initial Forecast (Jul. 28)	Change	%	FY2016 Results	Change	%
Gas sales volume (million m <sup>3</sup> , 45 MJ)	15,347	15,326	+21	+0.1%	15,720	-373	-2.4%
Electricity sales volume (million kWh)	14,824	14,615	+209	+1.4%	12,654	+2,170	+17.1%
Net sales	1,795.0	1,808.0	-13.0	-0.7%	1,587.0	+208.0	+13.1%
Operating expenses	1,707.0	1,724.0	-17.0	-1.0%	1,528.7	+178.3	+11.7%
Operating profit	88.0	84.0	+4.0	+4.8%	58.3	+29.7	+50.8%
Segment profit (operating profit + equity income/loss of subsidiary)	89.1	86.3	+2.8	+3.2%	61.9	+27.2	+43.8%
Ordinary profit <sup>(1)</sup>	83.0	80.0	+3.0	+3.8%	55.6	+27.4	+49.0%
Extraordinary income/loss	3.4	3.2	+0.2	—	13.3	-9.9	_
Profit attributable to owners of parent	63.0	61.0	+2.0	+3.3%	53.1	+9.9	+18.6%
Temperature effect <sup>(2)</sup>	-1.7	-1.7	0.0	—	-7.4	+5.7	_
Sliding time lag effect (city gas, LNG sales) <sup>(3)</sup>	-28.8	-28.8	0.0	—	-19.9	-8.9	
Amortization of actuarial differences <sup>(4)</sup>	7.7	7.7	0.0	—	-24.0	+31.7	
Adjusted ordinary profit <sup>(1)-((2)+(3)+(4))</sup>	105.8	102.8	+3.0	+2.9%	106.9	-1.1	-1.0%

Current forecast*         113.02         53.19         16.0           Previous forecast         114.02(-1.00)         54.59(-1.40)         16.0(±0.0)           EV2016 result         108.28(+4.64)         47.51(+5.62)         16.2(0.2)	Economic framework	Exchange rate (¥/\$)	Crude oil price (\$/bbl)	Avg. air temp. (°C)
	Current forecast*	113.02	53.19	16.0
EV2016 regult $109.29/(4.64)$ $47.51/(5.69)$ $16.2/(0.2)$	Previous forecast	114.02(-1.00)	54.59(-1.40)	$16.0(\pm 0.0)$
F1201016Sull [106.36(+4.04) [47.31(+3.06) ] 10.3(-0.3)	FY2016 result	108.38(+4.64)	47.51(+5.68)	16.3(-0.3)

	assets	(costs deducted)	Annuity portion	Lump-sum portion	assets (billion yen)
<u>)</u>	FY2016	1.57%	0.389%	0.055%	277.0
	FY2015	2.92%	0.236%	0.000%	281.0
	FY2014	5.57%	0.829%	0.358%	281.0

Investment vield

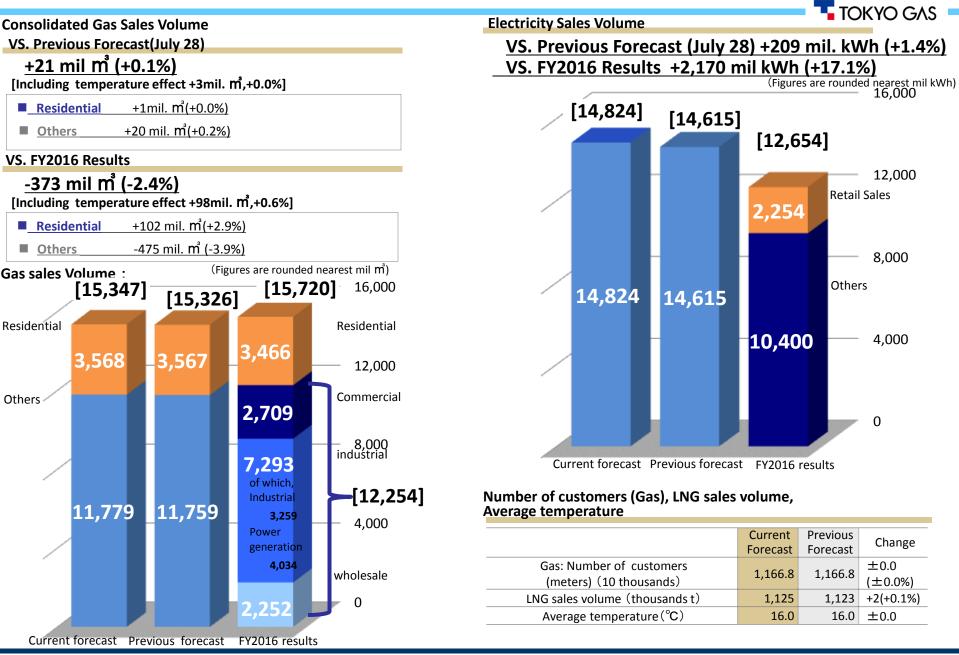
Pension

Discount rate

\*3Q~: ¥115.00/\$, \$55.00/bbl Figures in parentheses indicate change from current forecast Year-end

assets

#### FY2017 Full Year Forecast ; Consolidated Gas Sales Volume / Electricity Sales Volume



#### • Gas Sales Volume (Vision Basis)

(Unit : mil. m<sup>3</sup>)

	FY2017 Current Forecast	FY2017 Previous Forecast	Change	FY2016 Results	Change
Gas Sales Volume (financial accounting basis)	15,347	15,326	+21	15,720	-373 -2.4%
Gas volume used in-house under tolling agreement	2,056	2,025	+31 +1.6%	1,996	+60 +3.0%
LNG sales (m <sup>3</sup> basis)	1,406	1,404	+2 +0.1%	1,337	+69 +5.1%
Total	18,809	18,754	+55	19,053	-244 -1.3%

#### FY2017 Full Year Forecast : Sales and Profit/Loss by Business Segments

<vs. Previous Forecast>

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(unit : billion yen	)	
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	Net Sales				Segment Profit (Operating profit + Equity income/loss of subsidi			
	Current Forecast	Previous Forecast	Change	%	Current Forecast	Previous Forecast	Change	%
City Gas	1,136.0	1,150.8	-14.8	-1.3	95.3	92.9	2.4	2.6
Electric Power	216.2	213.6	2.6	1.2	9.2	10.1	-0.9	-9.0
Overseas business	43.4	44.5	-1.1	-2.5	5.5	6.5	-1.0	-15.4
Energy-related	502.6	505.5	-2.9	-0.6	8.3	7.4	0.9	12.2
(Engineering solutions)	121.6	122.1	-0.5	-0.4	4.0	3.6	0.4	12.3
(LNG sales)	122.8	125.9	-3.1	-2.5	0.5	0.5	0.0	0
Real estate	42.8	42.8	0.0	0.0	7.8	7.8	0.0	0
Others	95.0	94.0	1.0	1.1	3.8	2.4	1.4	58.3
Adjustment	-241.0	-243.2	2.2	_	-40.8	-40.8	0.0	_
Total	1,795.0	1,808.0	-13.0	-0.7	89.1	86.3	2.8	3.2

Notes: • Net sales by business segments include internal transactions.

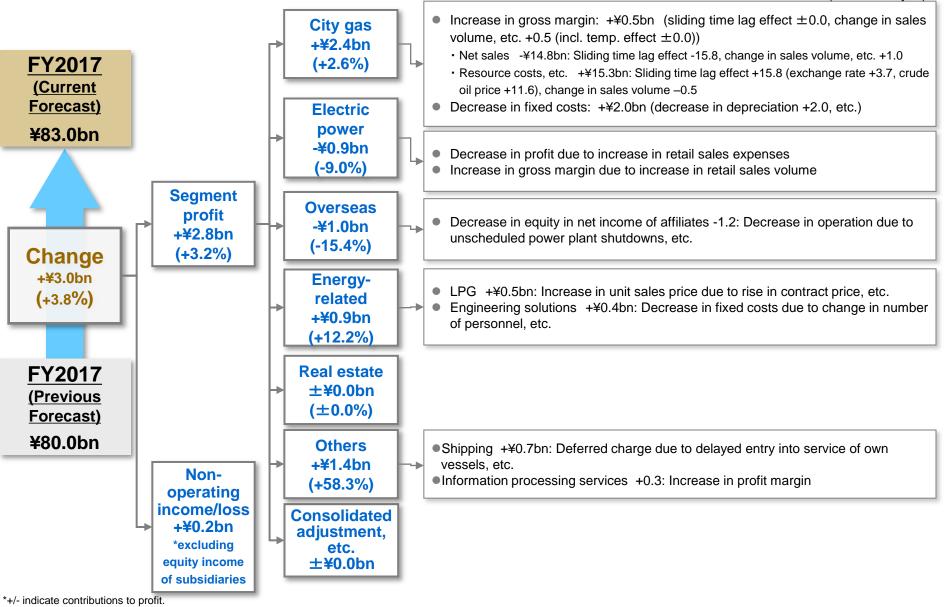
• "Energy-related" includes businesses in engineering solutions, liquefied petroleum gas, industrial gas, LNG sales, gas appliances sales, gas pipe installation and construction etc.

• "Others" includes businesses in shipping, information processing service, credit and leasing, etc.

• The "Adjustment" to operating profit is primarily companywide expenses not allocated to individual segments.

#### FY2017 Forecast: Ordinary Profit Analysis <vs. FY2017 Previous Forecast>

• TOKYO GAS (Unit: billion yen)



#### FY2017 Full Year Forecast : Sales and Profit/Loss by Business Segments

<vs. FY2016 Results>

(unit : billion yen)

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	Net Sales				Segment Income (Operating profit + Equity income/loss of subsidia			
	Current Forecast	FY2016 Results	Change	%	Current Forecast	FY2016 Results	Change	%
City Gas	1,136.0	1,040.0	96.0	9.2	95.3	76.5	18.8	24.5
Electric Power	216.2	145.7	70.5	48.3	9.2	4.4	4.8	106.5
Overseas business	43.4	31.9	11.5	35.9	5.5	4.4	1.1	24.9
Energy-related	502.6	459.5	43.1	9.4	8.3	13.7	-5.4	-39.8
(Engineering solutions)	121.6	111.6	10.0	12.9	4.0	4.9	-0.9	-18.5
(LNG sales)	122.8	91.2	31.6	34.7	0.5	3.3	-2.8	-84.9
Real estate	42.8	41.4	1.4	3.4	7.8	7.8	0.0	-0.7
Others	95.0	89.0	6.0	6.6	3.8	3.2	0.6	18.5
Adjustment	-241.0	-220.7	-20.3	_	-40.8	-48.2	7.4	_
Total	1,795.0	1,587.0	208.0	13.1	89.1	61.9	27.2	43.8

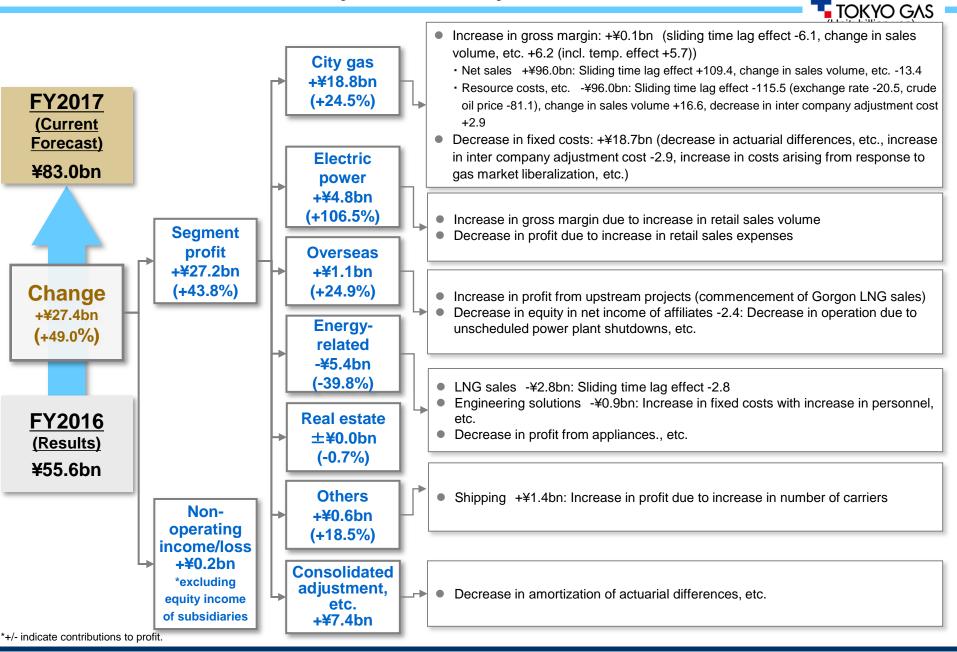
Notes: • Net sales by business segments include internal transactions.

• "Energy-related" includes businesses in engineering construction, appliances sales, gas pipe installation, construction, and LNG sales, liquefied petroleum gas and industrial gas, etc.

• "Others" includes businesses in shipping, information processing service, credit and leasing, etc.

• The "Adjustment" to operating profit is primarily companywide expenses not allocated to individual segments.

#### FY2017 Forecast: Ordinary Profit Analysis <vs. FY2016 Results>



(unit: billion yen)

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	FY2017 Forecast	FY2016 Results	FY2015 Results
Total assets (a)	2,341.0	2,230.2	2,251.5
Shareholders' equity (b)	1,130.0	1,101.4	1,100.2
Shareholders' equity ratio (b)/(a)	48.3%	49.4%	48.9%
Interest-bearing debt (c)	796.0	713.5	715.7
D/E ratio (c)/(b)	0.70	0.65	0.65
Profit attributable to owners of parents (d)	63.0	53.1	111.9
Depreciation (e)	166.0	164.3	145.1
Operating cash flow (d) + (e)	229.0	217.4	257.1
Сарех	260.0	203.3	232.0
ROA: (d) / (a)	2.8%	2.4%	5.0%
ROE: (d) / (b)	5.6%	4.8%	10.3%
TEP	7.6	-6.2	67.6
WACC	2.9%	3.0%	3.4%
Total payout ratio	Approx. 60%	60.7%	60.1%

Note: Shareholders' equity = Net assets - minority interests

ROA = Net profit / Total assets (average of the amounts as of the end of the previous period and end of the current period)

ROE = Net profit / Shareholders' equity (average of the amounts as of the end of the previous period and end of the current period)

Balance sheet figures are as of the corresponding term-end

Operating cash flow = Net profit + Depreciation (including depreciation of long-term prepaid expenses)

Total payout ration= [FY-N dividends + FY-(N+1) treasury stock purchased] / FY-N consolidated net profit

TEP (Tokyo Gas Economic Profit) : Profit after taxes and before interest payments – Cost of capital (invested capital × WACC))

Items for WACC calculation (FY2017 forecast)

Cost of interest-beating debt : forecast interest rate (1.11%, after tax)
Cost rate for shareholders' equity

• Risk free rate : 10-year JGB yield 0.11%

•Market Risk premium : 5.5% β: 0.75

# **3. Reference Materials**



#### Impact of rising JCC by \$1/bbl

				(Unit: billion yen)
		Impact on earnings		
		3Q	4Q	Full year
Period	3Q	-0.2	-1.3	-1.5
	4Q	_	-0.4	-0.4
	Full year	-0.2	-1.7	-1.9

#### Impact of depreciation by ¥1/\$

				(Unit: billion yen)
		Impact on earnings		
		3Q	4Q	Full year
Period	3Q	-0.7	+0.7	0.0
	4Q	—	-1.0	-1.0
	Full year	-0.7	0.3	-1.0

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#### Key Topics in FY2017 (Excerpted from Press Releases up to 27th Oct.)

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Management Strategy	<ul> <li>FY2017 initiatives by Tokyo Gas Group (Apr. 13)</li> <li>Strategic alliance in LNG procurement between Kyushu Electric Power and Tokyo Gas (Apr. 12)</li> <li>The Tokyo Gas Group FY2018-2020 management plan "GPS2020" (Oct. 5)</li> </ul>			
City gas	<ul> <li>Total number of ENE-FARM residential fuel cells sold hits 80,000 (May 8)</li> <li>Development of technology to improve the power generating efficiency of fuel cells : the first case of 65% equivalent efficiency with using a low output (5kW) fuel cell in the world (May 23)</li> <li>11 Companies Agree to Collaborate on Large-scale Construction of Hydrogen Stations : New Company to Be Considered for Supporting Strategic Construction and for Achieving Wider Use of FCVs and Independence of Hydrogen Station Business (May 19)</li> <li>Application to alter registered particulars concerning gas retail business (May 29)</li> <li>Offer of the service, "Total Energy Service Plan (Zuttomo) by Tokyo Gas Group in Tosai Gas and Higashinihon Gas supply areas (Jun. 27)</li> <li>Discontinuation of feasibility study into the business of units 3 and 4 at Kawasaki Gas Power Plant (Jul. 14)</li> </ul>			
Electric power	<ul> <li>Establishment of Prominet Power Co., Ltd. (Aug. 1)</li> <li>Total number of commercial ventilation alarms installed hits the half million mark (Aug. 9)</li> <li>Basic agreement on wholesale distribution of natural gas signed with Horikawa Sangyo Co., Ltd.: supply to residents in Suzunomiya Harigava</li> </ul>			
Liquid gas	• Laun	ch of pilot IoT project utilizing a low power wide area (LPWA) network to streamline LPG distribution (Jun. 5)		
Overseas	<ul> <li>Opening of Manila Office (Apr. 21)</li> <li>Participation in a natural gas-fired power plant in Pennsylvania (Apr. 18)</li> <li>Investment in natural gas development project in East Texas, U.S.A. (May 8)</li> <li><u>Investment and Strategic Alliance in Vietnam Natural Gas Distribution Business(Aug. 31)</u></li> <li>Joint investment in gas distribution company in Indonesia(Oct. 17)</li> </ul>			
Living service	<ul> <li>Launch of service to access information regarding home gas and electric appliances of customers by linking myTOKYOGAS and the smartphone app "TORISETSU" (Jul. 21)</li> <li><u>"Predicting Heat Shock service" developed jointly by Japan Weather Association and Tokyo Gas launched on the tenki.jp online we site (Oct. 2)</u></li> </ul>			
Engineering services		<ul> <li>Opening of offices in Kyushu and Nagano (Apr. 3)*</li> <li>Jointly feasibility study of LNG terminal business at Sumitomo Chemical's Ehime Works (May 31)*</li> <li>Business of consulting for construction of LNG receiving terminal in Bangladesh (Jul. 27)*</li> <li>Launch of energy management service using Helionet Advance (Sept. 29)</li> <li>Development of "Optopass" planning software to optimize energy facility operation and launch of consulting service (Sept. 29)</li> </ul>		
Urban development Services		<ul> <li>District developed by the tentatively named TGMM Shibaura Project to be called "msb Tamachi": mixed-use complex with direct access to JR Tamachi Station to be developed by Tokyo Gas, Mitsui Fudosan, and Mitsubishi Estate (May 16)</li> <li><u>Commencement of work on Tamachi Station Tower N as part of the "msb Tamachi" development project (Aug. 23)</u></li> </ul>		
Finance and shareholder returns Dates of press releases	<ul> <li>Notifi</li> </ul>	uncement of issue of 42nd and 43rd domestic unsecured notes (Jun. 2) cation of resolution to acquire treasury shares (Apr. 28), notice of share buyback (May 23), notice of retirement of treasury stock (Jun. 29) arentheses. *Press releases issued by Tokyo Gas Engineering Solutions. Press releases issued after the 1Q results were announced (July 28) are underlined.		

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< Cautionary Statement regarding Forward-looking Statements >

Statements made in this presentation with respect to Tokyo Gas's present plans, forecasts, strategies and beliefs, and other statements herein that are not expressions of historical fact are forward-looking statements about the future performance of the Company. As such, they are based on management's assumptions and opinions stemming from currently available information and therefore involve risks and uncertainties.

The Company's actual performance may greatly differ from these projections, due to these risks and uncertainties which include without limitation general economic conditions in Japan, crude oil prices, the weather, changes in the foreign exchange rate of the yen, rapid technological innovations and the Company's responses to the progress of deregulation.

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