## Financial Summary 2nd quarter of FY2011

October 28, 2011
Tohoku Electric Power Co., Inc.



## **Contents**

#### **Financial Results**

- 1. Summary of Financial Results
- 2. Electricity Sales
- 3. Large Industry Sector
- 4. Electricity Generated and Purchased
- 5. Major Factors, Sensitivity to Major Factors (Non-consolidated)
- 6.Comparison Statements of Revenue & Expense (Non-consolidated)
- 7. Balance Sheets (Non-consolidated)
- 8. Statements of Income, Balance Sheets (Consolidated)
- 9. Statements of Cash Flows (Consolidated)
- 10.Segment Information (Consolidated)
- 11. (Reference) Extraordinary Loss (Consolidated)

## The Great East Japan Earthquake (Current Situation and our efforts)

- 1. Recovery Schedule of Affected Thermal Power Stations
- 2. (Reference) The Replacement Project of Shin-Sendai Power Station
- 3-5. Recovery conditions of our facilities
- 6. Current Reconstruct Conditions of the Companies in Our Service Area
- 7. Current Conditions and Ensuring Safety Measures at Nuclear Power Stations
- 8. Action Being Taken to Expand Renewable Energy (Wind Power Generation)
- 9. For the Early Stabilization of the Current Account Balance





### Summary of Financial Results

		2nd quarter of FY2011	2nd quarter of FY2010	Comp	arison		nted/Non- of 2nd quarter 72011
		(A)	(B)	(A) - (B)	(A) / (B)	Comparison	Ratio
	Operating Revenues	753.8	836.5	(82.7)	90.1%	81.8	1.12
Consc	Operating (Loss) Income	(54.9)	86.0	(140.9)	-	8.6	-
Consolidated	Ordinary (Loss) Income	(72.8)	68.4	(141.2)	-	6.1	-
	Net (Loss) Income	(108.2)	34.9	(143.2)	-	0.1	-
Z	Operating Revenues	671.9	768.2	(96.2)	87.5%		
on-Con	Operating (Loss) Income	(63.5)	79.0	(142.5)	-		
Non-Consolidated	Ordinary (Loss) Income	(79.0)	61.8	(140.8)	-		
ed	Net (Loss) Income	(108.4)	30.8	(139.2)	-		



## **Electricity Sold Year-on-Year Compared**

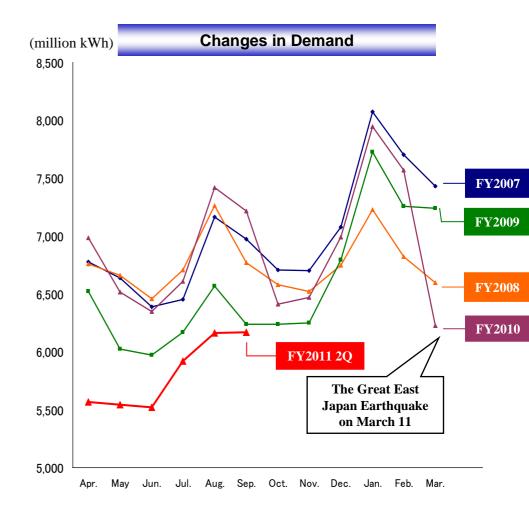
#### 34,886 million kWh down 6,210million kWh (-15.1%)

(million kWh)

		2nd quarter	2nd quarter	Comparison	
	Segment	of FY2011 (A)	of FY2010 (B)	(A) – (B)	(A) / (B)
I.	Residential	10,785	12,169	(1,384)	88.6%
Regulated	Commercial	1,818	2,118	(300)	85.8%
1	Sub-total	12,603	14,287	(1,684)	88.2%
	Deregulated	22,283	26,809	(4,526)	83.1%
Total		34,886	41,096	(6,210)	84.9%

#### [ Sub Segment ]

Large Industrial	11,562	13,785	(2,223)	83.9%
---------------------	--------	--------	---------	-------





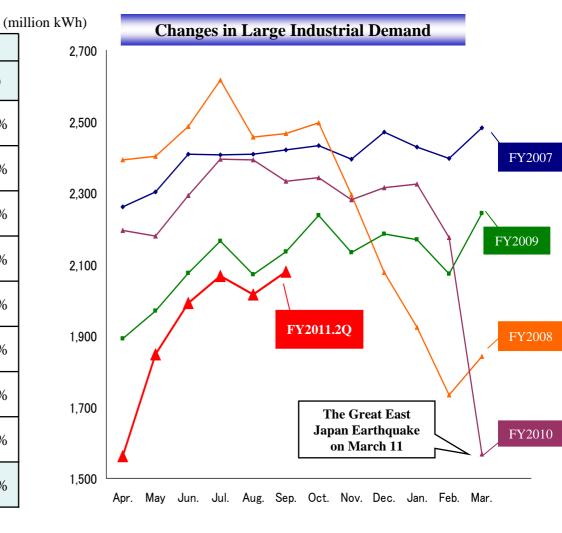
### Large Industry Sector

#### Large Industrial Demand Year-on-year Compared

11,562 million kWh down 2,223 million kWh (-16.1%)

(million kWh)

·	2nd	2nd	Com	parison
	quarter of FY2011 (A)	quarter of FY2010 (B)	(A) – (B)	(A) / (B)
Food Products	726	856	(130)	84.7%
Paper/Pulp	384	508	(124)	75.6%
Chemicals	978	1,071	(93)	91.3%
Ceramics	304	365	(61)	83.4%
Steel	934	1,493	(559)	62.5%
Nonferrous Metals	1,635	1,968	(333)	83.1%
Machinery and Equipment Manufacturing	3,773	4,225	(452)	89.3%
Others	2,828	3,299	(471)	85.7%
Total	11,562	13,785	(2,223)	83.9%





### Electricity Generated and Purchased

(million kWh)

		2nd quarter of	2nd quarter of	Comparison		
		FY2011 (A)	FY2010 (B)	(A) - (B)	(A)/(B)	
Owr	n Generated power	26,540	35,096	(8,556)	75.6%	
	Hydro	4,239	4,634	(395)	91.5%	
	Thermal	21,828	18,124	3,704	120.4%	
	Nuclear	-	11,887	(11,887)	-	
	Renewable	473	451	22	104.9%	
Purc	chased Power	8,449	11,696	(3,247)	72.2%	
Pow	er Interchanges (Transmitted)	(2,777)	(10,386)	7,609	26.7%	
Pow	er Interchanges (Received)	5,730	7,976	(2,246)	71.8%	
Used	d at Pumped Storage	(185)	(77)	(108)	241.1%	
Tota	ıl, Generated and Purchased	37,757	44,305	(6,548)	85.2%	



## Tohoku Electric Power Major Factors, Sensitivity to Major Factors (Non-consolidated)

		2nd quarter of FY2011 (A)	2nd quarter of FY2010 (B)	Comparison (A) - (B)
	Crude Oil CIF Price (\$/bbl)	113.9	78.4	35.5
Major	Exchange Rate (¥/\$)	80	89	(9)
Factors	Hydro Power Flow Rate (%)	106.0	103.0	3.0
	Nuclear Power Capacity Factor (%)	0.0	82.7	(82.7)

		2nd quarter of FY2011 (A)	2nd quarter of FY2010 (B)	Comparison (A) - (B)
Se	Crude Oil CIF Price (per \$1/bbl)	1.3	0.8	0.5
Sensitivity to 1 Factors	Exchange Rate (per ¥1/\$)	2.4	1.1	1.3
y to M	Hydro Power Flow Rate (per 1%)	0.6	0.4	0.2
Major	Nuclear Power Capacity Factor (per 1%)	1.3	0.9	0.4



### Comparison Statements of Revenue & Expense (Non-consolidated)

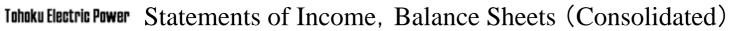
6

		2nd quarter	2nd quarter	Comp	arison	_	
			of FY2011 (A)	of FY2010 (B)	(A) - (B)	(A)/(B)	Items
		Residential	234.4	258.1	(23.7)	90.8%	
		Commercial	363.4	403.4	(39.9)	90.1%	Decrease in Electric sales volume; (99.8) Rise in electricity rate; 36.1
Re	Sub T	otal otal	597.9	661.6	(63.6)	90.4%	
Revenues	Sales	of Power to Other Utilities	60.9	88.0	(27.0)	69.2%	Thermal power;(12.2), Nuclear power;(3.5)
ues	Other	Revenues	18.4	21.5	(3.1)	85.6%	
	[Oper	rating Revenues]	[671.9]	[768.2]	[(96.2)]	[87.5%]	
	Total	Revenues	677.3	771.2	(93.8)	87.8%	
	Perso	nnel	83.9	81.3	2.6	103.2%	
	Fuel		210.3	126.2	84.1	166.6%	Effect of increase in electricity generated by thermal power; 56.4, Rise in crude oil CIF price;49.3, Appreciation of the yen;(21.6)
	Maintenance		60.3	92.4	(32.1)	65.2%	Thermal power; (13.6), Distribution; (12.5) Nuclear power; (3.2)
Ħ	Depreciation		106.3	106.6	(0.3)	99.7%	
Expenses	Power Purchased from other utilities		68.7	61.7	6.9	111.2%	
ıses	Power	Purchased from other companies	97.8	94.5	3.2	103.4%	
	Intere	st	19.0	19.7	(0.7)	96.3%	
	Taxes	s, etc.	36.7	41.6	(4.9)	88.1%	
	Nuclea	r Power Back-end Cost	3.8	13.0	(9.2)	29.4%	
	Other	Expenses	69.4	71.9	(2.5)	96.5%	
	Total	Expenses	756.4	709.4	46.9	106.6%	
[O <sub>]</sub>	perating	g (Loss) Income]	[(63.5)]	[79.0]	[(142.5)]	[-]	
Or	dinary (	(Loss) Income	(79.0)	61.8	(140.8)	-	
Ex	traordin	nary Loss	89.7	9.7	79.9	919.3%	The Great East Japan Earthquake; 72.0, The heavy rainfall in Niigata and Fukushima; 17.6
Ne	t (Loss)	Income	(108.4)	30.8	(139.2)	-	



### Balance Sheets (Non-consolidated)

		Sep. 30, 2011 (A)	Mar. 31, 2011 (B)	Comparison (A) - (B)	Items
Total Assets		3,693.6	3,700.8	(7.2)	
	Fixed Assets	3,466.0	3,430.6	(35.3)	Transmission plant; 125.4 Construction work in progress; (139.0)
	Current Assets	227.6	270.1	(42.5)	Cash and Deposits; (56.0)
Liab	pilities	3,116.0	3,003.7	112.3	Reserve for loss on disaster; 73.3
Net Assets		577.5	697.0	(119.5)	
Interest-Bearing Liabilities		2,113.5	2,010.2	103.2	Loans; 144.2, CP; 18.0, Bonds; (59.0)



1	$\langle \rangle$
l フ	<b>~</b> 7
٠.	_

(billions of yen)

	(Offitolis						
Statements of Income		2nd quarter of FY2011 (A)	2nd quarter of FY2010 (B)	Comparison (A) - (B)	Items		
	Operating Revenues	753.8	836.5	(82.7)	Electric power; (96.0), Other; 13.2		
	Operating Expenses	808.7	750.5	58.1	Electric power; 46.5, Other; 11.6		
(	Operating Income	(54.9)	86.0	(140.9)			
(	Ordinary Income	(72.8)	68.4	(141.2)			
I	Extraordinary Loss	90.4	9.8	80.6	The Great East Japan Earthquake; 72.8 The heavy rainfall in Niigata and Fukushima; 17.6		
ľ	Net Income	(108.2)	34.9	(143.2)			

Balance Sheets	Sep. 30, 2011 (A)	Mar. 31, 2011 (B)	Comparison (A) - (B)	Items
Total Assets	4,027.8	4,028.8	(0.9)	
Fixed Assets	3,623.6	3,591.8	31.8	Transmission plant; 125.7 Construction work in progress; (129.2)
Current Assets	404.2	437.0	(32.8)	Cash and deposits; (62.1)
Liabilities	3,271.1	3,152.3	118.7	Reserve for loss on disaster; 70.9
Net Assets	756.7	876.4	(119.7)	
Interest-Bearing Liabilities	2,152.8	2,051.8	100.9	Loans; 141.9, CP; 18.0, Bonds; (59.0)

### Statements of Cash Flows (Consolidated)

(billions of yen)

	2nd quarter of FY2011 (A)	2nd quarter of FY2010 (B)	Comparison (A) - (B)	Items
Cash Flow from Operating Activities	(26.0)	160.2	(186.3)	Loss (income) before income taxes and minority interests; (221.3) Reserve for loss on disaster; 70.9
Cash Flow from Investing Activities	(126.8)	(126.3)	(0.4)	
Cash Flow from Financing Activities	89.5	(21.2)	110.8	Loans; 178.9 [Repayment; 208.2, Proceeds; (29.3)] CP; 16.0 [Redemption; 108.0, Proceeds; (92.0)] Bonds; (88.8) [Redemption; (49.0), Proceeds; (39.8)]
Net Cash Flow	(63.4)	12.5	(75.9)	
Free Cash Flow	(135.9)	51.7	(187.6)	

Note; Our definition of the free cash flow

### Segment Information (Consolidated)

10

(billions of ven)

	_		_	billions of yen)
		2nd quarter of FY2011 (A)	2nd quarter of FY2010 (B)	Comparison (A) - (B)
Sa	ıles*1	753.8	836.5	(82.7)
	Electric Power	667.2	763.3	(96.1)
	Business	665.9	761.9	(96.0)
	Construction	109.9	98.5	11.4
	Business	48.4	34.4	13.9
	Gas Business	18.1	15.4	2.7
	Gas Business	13.9	11.0	2.9
	Information Processing, Tele-	22.1	19.2	2.8
	communication Business	8.6	7.7	0.9
	Others	55.2	63.1	(7.9)
	Others	16.9	21.4	(4.5)
	perating (loss) come	(54.9)	86.0	(140.9)
	Electric Power Business	(60.7)	81.4	(142.2)
	Construction Business	0.9	(0.8)	1.8
	Gas Business	0.7	0.7	0.0
	Information Processing, Tele- communication Business	2.9	1.9	1.0
	Others	1.0	2.1	(1.1)

Major Consolidated Subsidiaries 1\*2

Major Consolidated Subsignaries 1 * 2 (billions of yes					
	2nd quarter of FY2011		Year-on-year		
	Sales	Operating income (loss)	Sales	Operating income (loss)	
Electric Power Business					
Tousei Kougyo Co., Inc.	1.5	0.2	(0.1)	(0.0)	
Sakata Kyodo Power Co., Ltd.	20.3	1.5	4.8	(0.1)	
Construction Business					
Yurtec Corp.	81.6	2.2	18.5	3.8	
Tohoku Electric Engineering & Construction Co., Inc.	21.1	(1.2)	(7.8)	(2.2)	
Gas Business					
Nihonkai LNG Co., Ltd.	6.6	0.4	(0.5)	(0.1)	
Information Processing, Telecommunication Business					
Tohoku Intelligent Telecommunication Co., Inc.	11.3	2.2	0.2	0.1	
Tohoku Information Systems Co., Inc.	11.1	0.6	2.7	0.8	
Others					
Kitanihon Electric cable Co., Ltd.	13.9	0.2	(0.2)	0.0	

<sup>\*2</sup> Before elimination of inter-companies transaction

<sup>\* 1</sup> Lower is net sales to outside customers.



### Extraordinary Loss (Consolidated)

#### **Extraordinary loss** ¥90.4 billion

- <u>Due to the Great East Japan Earthquake (Additional)</u> ¥ 72.8 billion
- Due to the heavy rainfall in Niigata and Fukushima ¥ 17.6 billion

#### [The Great East Japan Earthquake]

#### [The heavy rainfall in Niigata and Fukushima]

(billions of yen)

Tohoku Electric Power		72.0
	Generating Facilities	67.3
	Supply Facilities	4.6
Consolidated Subsidiaries		0.7
Consolidated Total		72.8

Tohoku Electric Power		17.6
	Generating Facilities	15.6
	Supply Facilities	2.0
Consolidated Subsidiaries		-
Consolidated Total		17.6

# The Great East Japan Earthquake (Current Situation and our efforts)



	Unit	Output Fuel	Resumption of operation		
	Ullit	Output•Fuel	Recent Schedule	2011 2012 2013	
Shin-Sendai Station	No.1	350MW • Heavy oil	In Dec. 2011	Accelerated from summer in 2012	
	No.2	600MW •Gas	Decommission in Oct. 2011	Replacement to Unit 3 series	
Sendai Station	No.4	446MW •Gas	In Mar. 2012	Accelerated from summer in 2012	
Haramachi Station	No.1	1,000MW •Coal	By summer in 2013		
	No.2	1,000MW •Coal	By summer in 2013		
Soma Kyodo Power (Shinchi Station)	No.1	1,000MW •Coal ※	In Jan. 2012 (Partly)	Aim to restore fully at summer in 2012	
	No.2	1,000MW •Coal ※	In Dec. 2011 (Partly)	Aim to restore fully at summer in 2012	
Joban Joint Power (Nakoso Station)	No.6	175MW•Heavy Oil	By summer in 2012		
	No.7	250MW •Coal ※	In Dec. 2011		

**※**Half of power is made available to Tohoku Electric Power Company.

For this winter

#### (Reference) The Replacement Project of Shin-Sendai Power Station

Tohoku EPCO. will launch the replacement project of Shin-Sendai Power Station <u>in line with the plan made before the Earthquake</u>. It will commence operation for unit for half of the designed output in July 2016 and July 2017, respectively. And Tohoku EPCO. will construct LNG base as originally planned.

#### **Summary of the project** =

[ Old equipment ]

	Output	Fuel	Schedule of Decommission
Unit 1	350MW	Heavy oil	At the end of FY2015
Unit 2	600MW	Gas	In Oct. 2011

<sup>\*</sup> There is a possibility that the schedule is changed depending on the situation of supply and demand.

#### [ Construction project ]

project _		
Output	980MW (490MW × 2)	
Generation system	Combined-cycle power generation system	
Thermal Efficiency	Approx. 59%	
Fuel	Gas	
	Start of construction: Nov. 2011	
Schedule	Start of operation: Jul. 2016(half)	
	Jul. 2017(half)	

#### **Summary of LNG base construction**

☐ Start of construction: Jan. 2012 Start of operation: Jul. 2016  $\Box$  Size of LNG tank : 160,000 kl × 2tanks

7 Construction place: In Shin Sanda

1 Transportation of LNG: Transported from overseas by large

☐ Construction place: In Shin-Sendai

Thermal Power Station

tanker, landed at Port of Sendai



## Sendai Thermal Power Station (located in Shichigahama-town, Miyagi Pref.)







**Entrance hall in turbine building** 

In March 2011

In September 2011



## Shin-Sendai Thermal Power Station (located in Sendai-city, Miyagi Pref.)



Fuel pump chamber

In March 2011

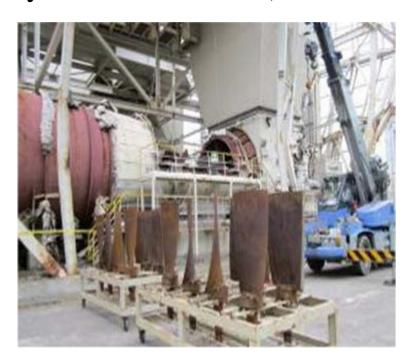
In September 2011



## Haramachi Thermal Power Station (located in Minamisoma-city, Fukushima Pref.)







Around the boiler fan of Unit 1

In March 2011

In August 2011



## Current Reconstruct Conditions of the Companies in Our Service Area

Sector	Customer	Current Condition
Food Products	Asahi Breweries	• (Fukushima Plant) First brewing in this autumn. First shipment in Nov.
	Kirin Brewery	• (Sendai plant) First brewing on Sep. 26. First shipment in Nov.
Paper/Pulp	Nippon Paper Industries	• (Ishinomaki mills) Incinerating wood rubble as fuel, in-house power generation commenced operation. The Company has been recovered production since Sep. until the half of next fiscal year little by little. The coal ship arrived on Sep. 10 for the first time after the Earthquake.
	Mitsubishi Paper Mills	• (Hachinohe mill) The operating status became 90% at the end of Sep. The production capacity became 62,000-ton per month.
Ceramics	Taiheiyo Cement	• In Ofunato plant, operation will be restored in Nov.
Steel	Nippon Steel	• At Kamaishi Works, port facilities (equipment for landing coal, conveyor for coal carriage) were restored operation on Sep. 9. Preparing coal transportation system stabilized generating facilities.
	JFE Bars & Shapes	<ul> <li>Some plants (steelmaking, bar steel and wire rod) were already restored operation.</li> <li>Operation of all products will be recovered at the level before the Earthquake in Oct.</li> </ul>
Nonferrous metals	M. Setek	Operation has been restored partly since Jul. It will become fully in Dec.



## Current Conditions and Ensuring Safety Measures at Nuclear Power Stations

#### **Current Conditions at Onagawa and Higashidori Nuclear Power Stations**

- ■All units of Onagawa Station are in cold shutdown condition, and facilities have been checked and restored to the normal operation status.
- The Earthquake caused no damage to Higashidori Station.

## Emergency Safety Measures based on Consequences of the Accident at TEPCO's¹ Fukushima Daiichi and Daini Nuclear Power Plants

- ■We have already implemented six emergency safety measures based on the government instructions (issued on March 30).
- ■We have been systematically conducting mid- and long-term measures to ensure further safety.

  Our efforts above were evaluated by the government as 'appropriate'. (Higashidori on May 6, Onagawa on June 1)

  1: Tokyo Electric Power Company

## Measures against Severe Accidents based on Lessons learned from the Disaster at TEPCO's Fukushima Daiichi Nuclear Power Plants

■We worked out 'measures against severe accidents' in line with the government instructions (issued on June 7), and has been systematically implementing the measures.

Our efforts above were evaluated by the government as 'appropriate'. (on June 18)

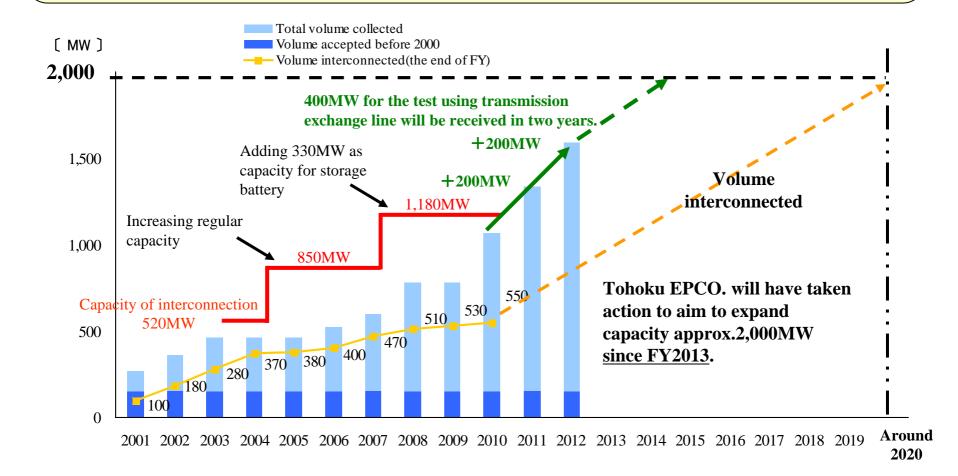
#### **Situation of Stress Test**

■We are implementing 'stress test' according to the government instructions (issued on July 22). Onagawa Station: We began second-level assessment on October 27.

Higashidori Station: We are checking first-level assessment now and also began second-level assessment on October 27.

#### Action Being Taken to Expand Renewable Energy (Wind Power Generation)

Tohoku EPCO. aims to expand the capacity of wind power interconnection up to approx. 2,000MW around FY2020, collecting actual data, assessing the effect of use for transmission exchange line and output regulation.





Tohoku EPCO. strives for early stabilization of the current account balance for the reconstruction of Tohoku region. We will make efforts to recover the damaged facilities as soon as possible and reduce costs.



The recovery of electricity demand from the Earthquake

The early recovery of damaged power plants

The implementation of safety measures at nuclear power stations

#### **Cost reduction with group companies**

Action in FY2011

The expected amounts of reduction compared to the level before the Earthquake is as below.

- •Maintenance; approx. ¥55 billion\*
- •Overhead costs; approx.¥15 billion\*
- •Capital expenditure; ¥60 billion\*
- \*Except the expenses for recovery from the Earthquake

Action being taken to expand renewable energy, Creating new energy demand

#### (Note)

This presentation solely constitutes reference material for the purpose of providing the readers with relevant information to evaluate our company.

The information contains forward-looking statements based on assumptions and projections about the future with regard to our company. As such, the readers are kindly asked to refrain from making judgment by depending solely on this information.

The forward-looking statements inherently involve a degree of risks and uncertainties. Consequently, these risks and uncertainties could cause the actual results and performance to differ from the assumed or projected status of the company.

Tohoku Electric Power Co., Inc. hereby disclaim any responsibility or liability in relation to consequences resulting from decisions made by investors.