





Current Situation of Tohoku EPCO's Fuel **Procurement**

November 14th, 2017





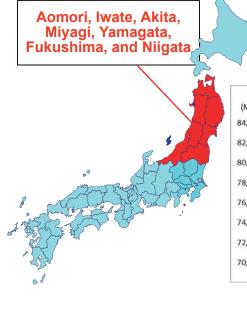
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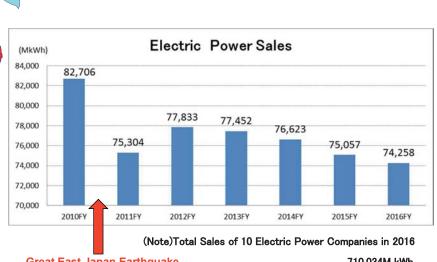
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Home Region and Electric Power Sales

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Tohoku EPCO





Great East Japan Earthquake (3/11/2011)

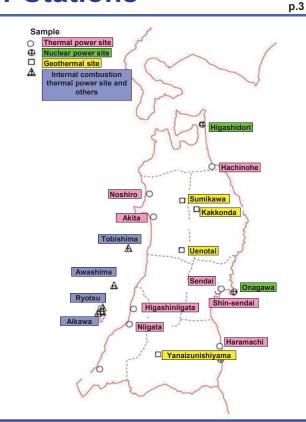
710,034M kWh

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Major Power Stations

No. Total Main Fuel of Capacity Unit (MW) [Thermal] Hachinohe 416 1 Gas 1,633 Akita 4 Oil 2 Noshiro 1,200 Coal 1 Sendai 446 Gas 2 Shin-Sendai 980 Gas 2 Haramachi 2,000 Coal Higashi-Niigata 7 5,149 Gas 2 Niigata 359 Gas [Geothermal] Kakkonda 2 80 Uenotai 1 29 Sumikawa 50 Yanaizu-Nishiyama 30 [Nuclear] 3 2,174 Onagawa Higashidori 1,100



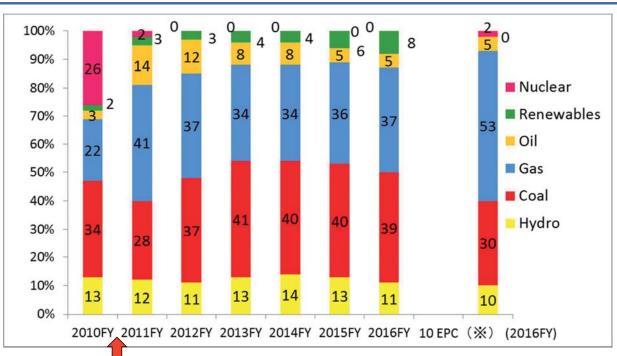
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Power Source Composition

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Great East Japan Earthquake (3/11/2011)

(※)10Electric Power Companies in Japan



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LNG Terminals and Gas Pipeline



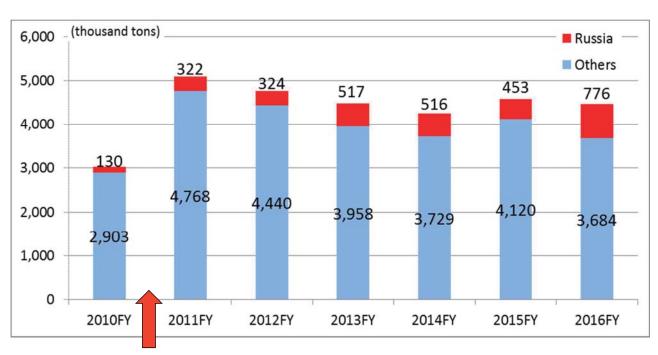
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LNG Procurement Volume (FY2010-FY2016)

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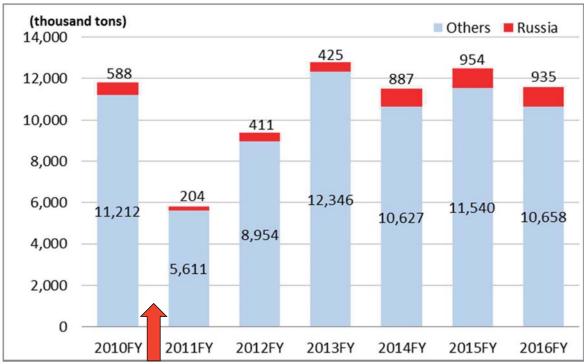
Great East Japan Earthquake (3/11/2011)



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Coal Procurement Volume (FY2010-FY2016)



Great East Japan Earthquake (3/11/2011)



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Our Fuel Procurement Policy

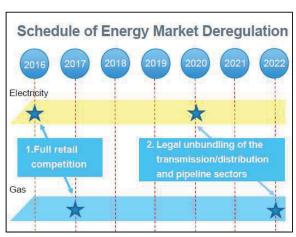
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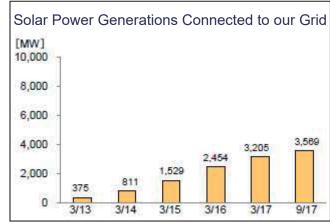
Our Fuel Procurement Policy

Stability

Economic Efficiency

Resilience





Enhancing Cost Competitiveness & Resilience

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<Coal>

- Diversification of procurement sources to minimize supply risks and improve economic efficiency and resilience
- Total cost reduction (including ash treatment-related expenses) with the expansion of the use of sub-bituminous coal
- Securing stability and economic efficiency by using specialized/regular routed carriers



Regular-routed carrier "Noshiro Maru"



- ✓ Through introduction of new fuel procurement schemes as well as diversification of fuel pricing systems, we strive to further enhance our cost competitiveness.
- ✓ Through continuous review of our procurement portfolio, including diverse procurement sources, we quest for more efficient and optimal fuel procurement with emphasis on stability, economic efficiency and resilience.



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Relationship between Tohoku EPCO and Russia p.10

◆LNG Long Term Contract

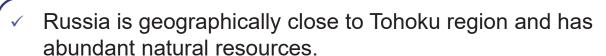
Contract	Contract Period	Volume	Term
Sakhalin II	2010 - 2030	0.42mtpa	FOB

◆LNG Spot Purchase

0.07 million MT (2016 Fiscal Year)

♦Coal Purchase

0.9 million MT (2016 Fiscal Year)



Russia will continue to be a important supplier for Tohoku EPCO in terms of energy security.



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Thank you for your attention



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