

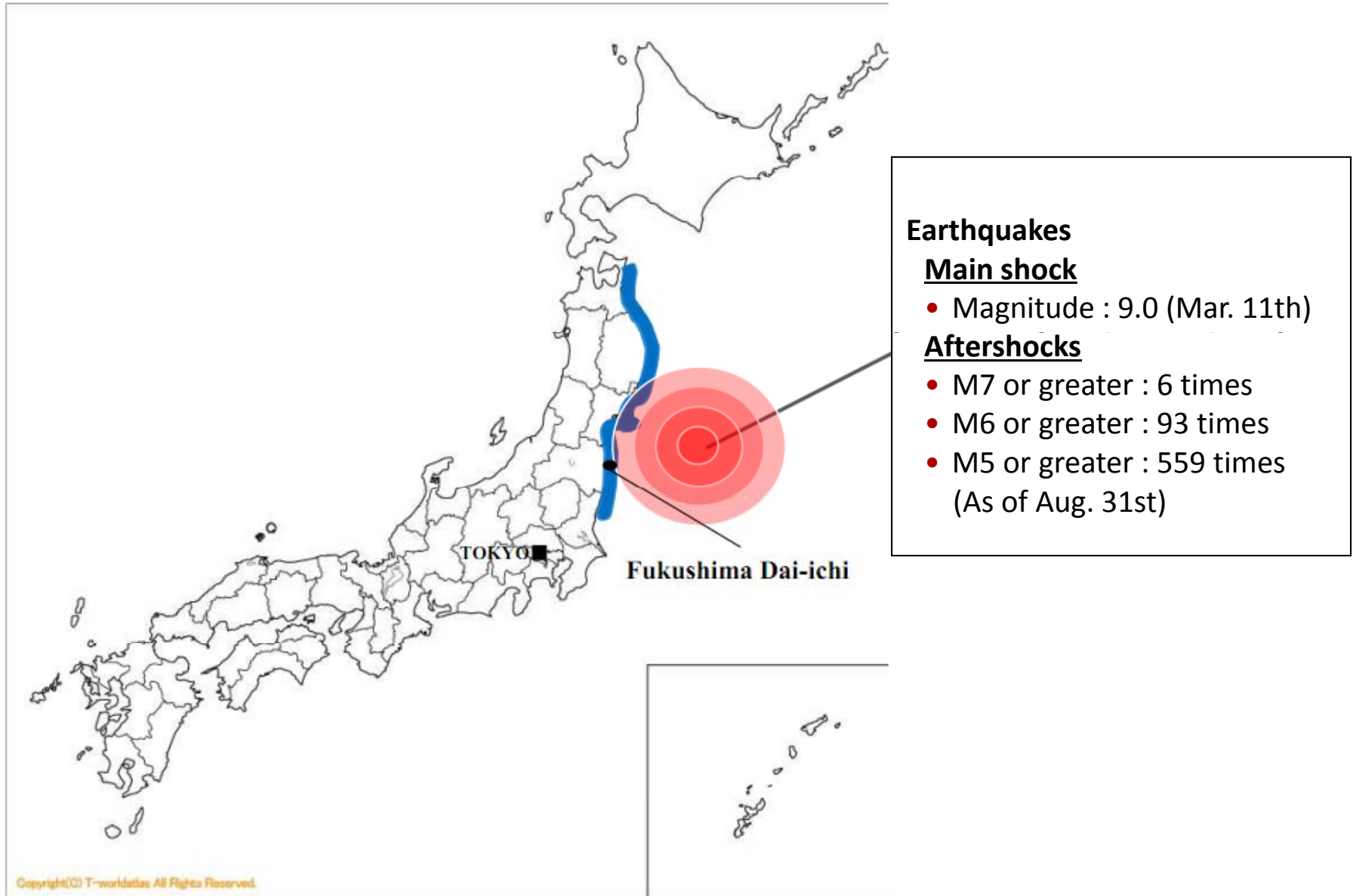
“The Future of Nuclear Power in a Post-Fukushima World”

# Life After Fukushima: What is the Impact on Japan’s Economy

October 19, 2011

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JETRO New York



A road in the town of Naka was returned to normal in 6 days



None of the 26 Bullet trains operated by JR East at the time of the earthquake derailed nor was there any serious damages



**April 29<sup>th</sup> – All  
Tohoku Shinkansen  
resumed operation**

**June 13<sup>th</sup> – All  
Tohoku, Yamagata,  
and Akita  
Shinkansen service  
has been restored**

Rebuild of Sendai Airport affected by Tsunami



2.5 weeks later



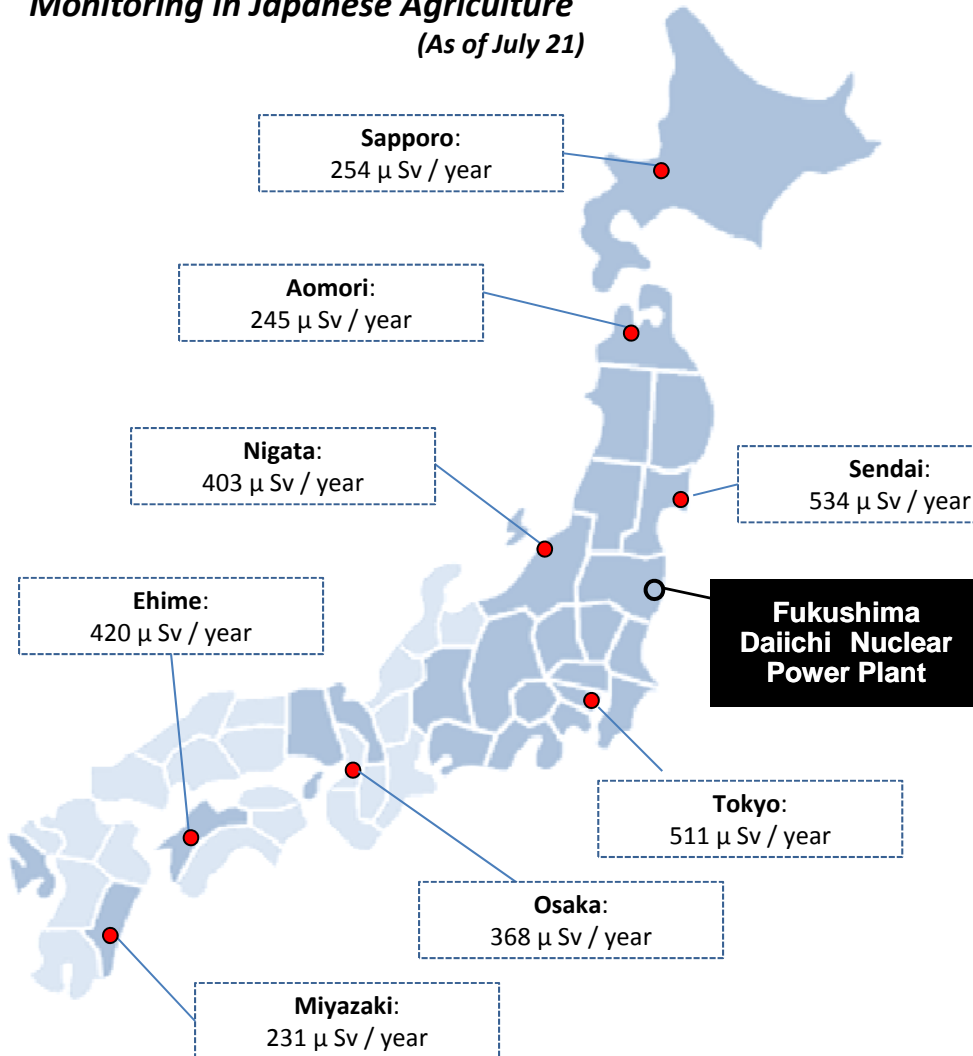
Building of temporary housings



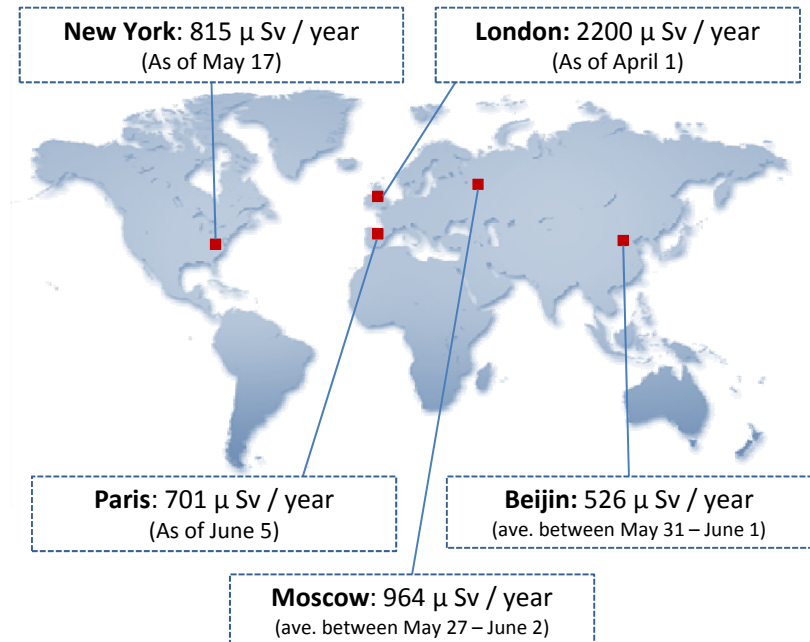
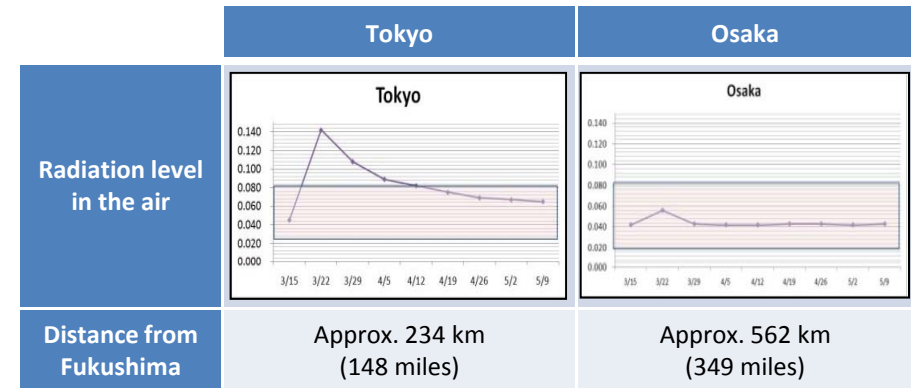
2 weeks later

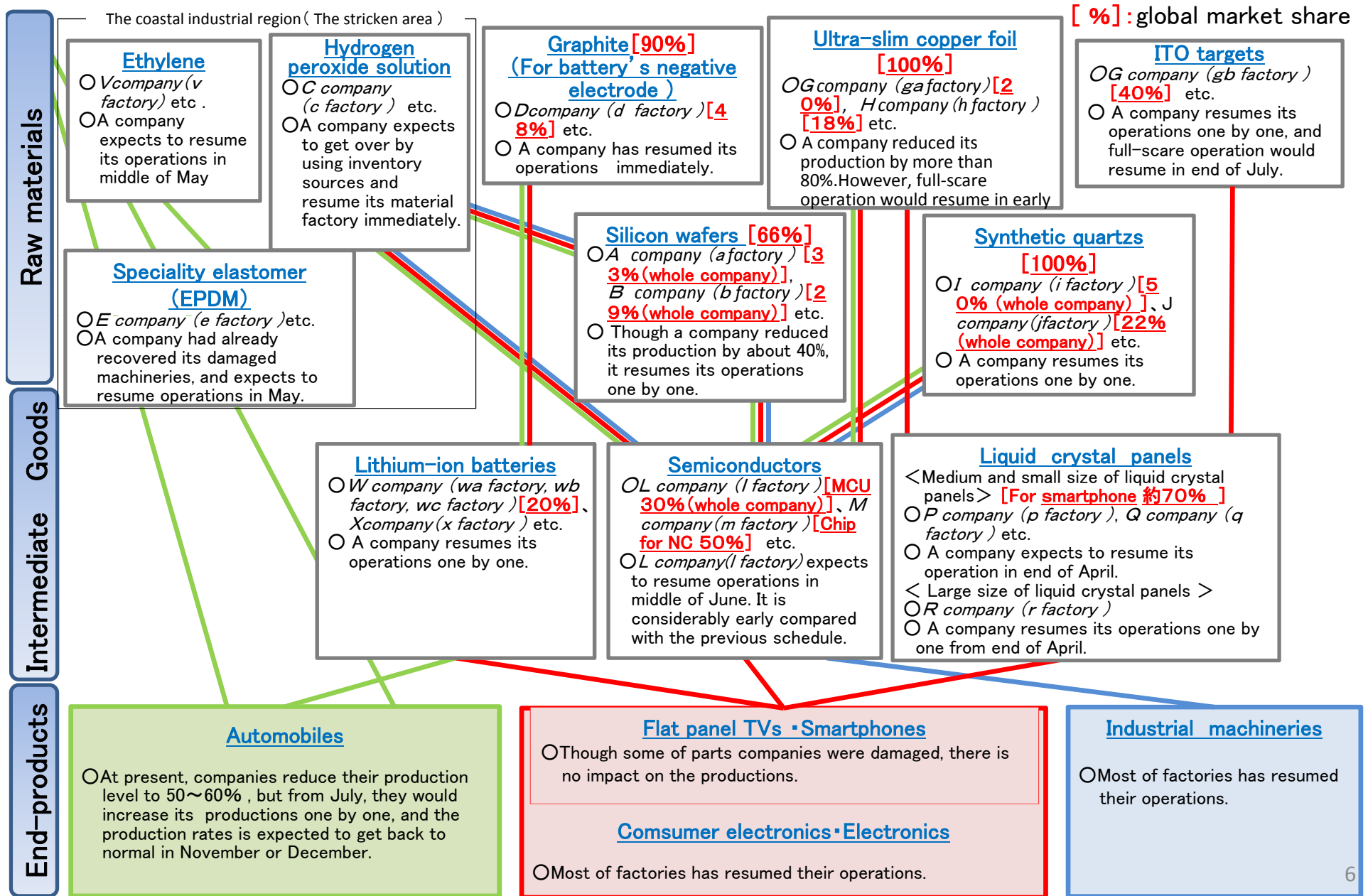


**Monitoring in Japanese Agriculture**  
(As of July 21)

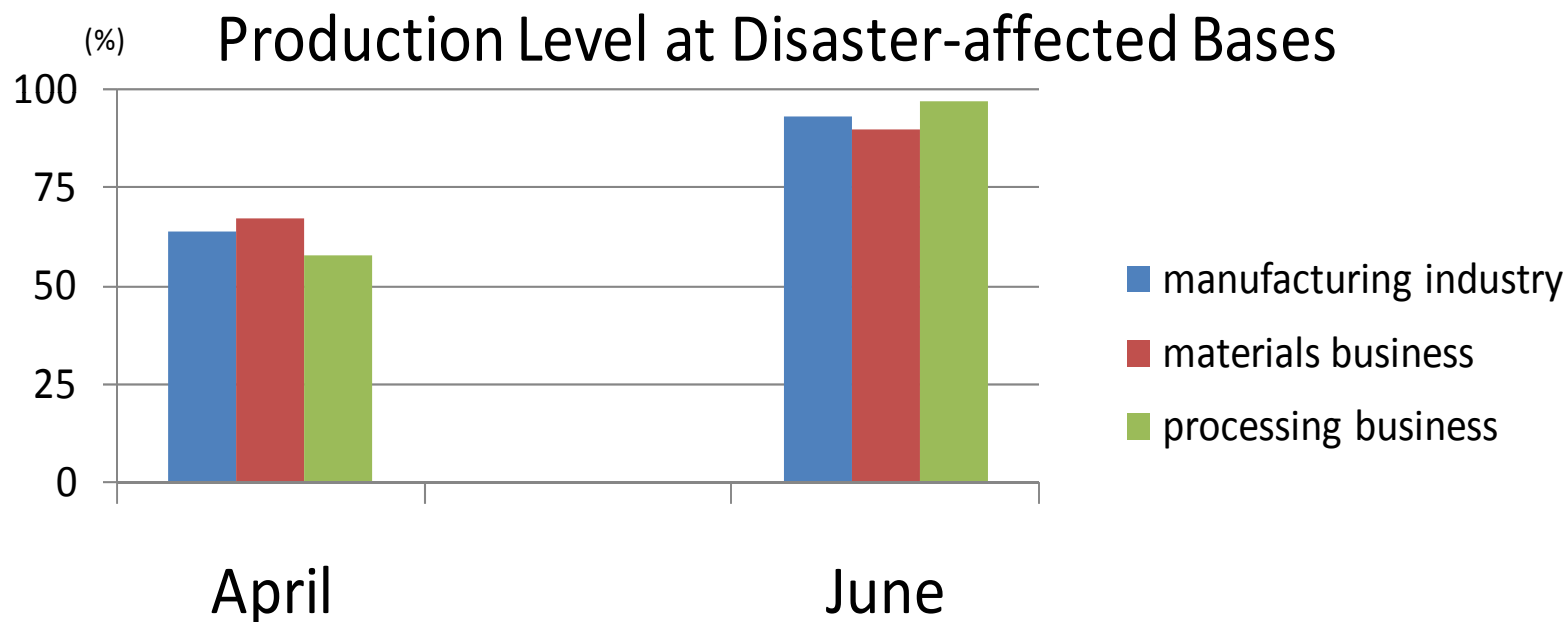


**Radiation level in the air**



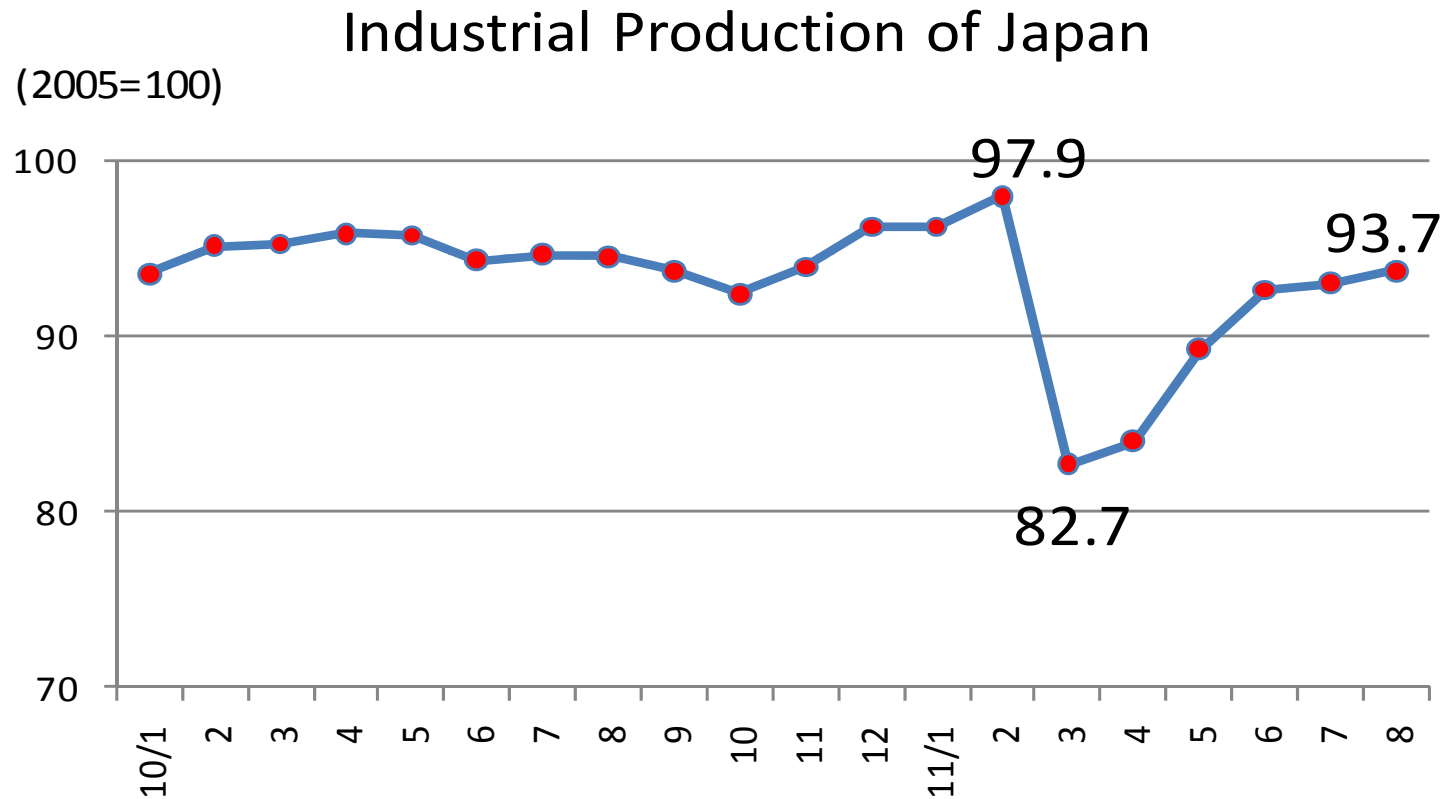


- As of April 2011, more than 60% of disaster-affected production bases in the manufacturing industry had been completed restored.
- As of end of June, 93% have been restored.



Source: METI "Results of an Emergency Survey on the Actual Status of Industries after the Great East Japan Earthquake" (April 2011), "The Second Emergency Survey on the Actual Status of Industries after the Great East Japan Earthquake" (August 2011)

In August, industrial production recovered to 96% of pre-earthquake level.



Source: Ministry of Economy, Trade and Industry  
 seasonally adjusted



RENESAS



➤ RENESAS is a semi-conductor maker, ranked 3<sup>rd</sup> in the world market.

➤ RENESAS produces.  
30% of micro computer in the global market

➤ One of the plants (NAKA Plant in IBARAKI Prefecture) is located in the affected area.

➤ Initially, it was expected to resume operation in September, but actually resumed in June.

- A banner on the plant “Show Renesas’s inner strength and unite our hearts to restart production in June. Customers world wide are waiting for Renesas’s recovery.”
- 24/7 work to restoration
- 80,000 engineers gathered to NAKA plant; from auto makers, electronics companies, construction companies, semiconductor companies even competitors, to support recovery.
- Had meeting twice a day. Visualize all the process and progress of recovery by putting large pieces of paper on the wall, which enabled share issues and led healthy competition and coordination among teams.
- Speedy alternated production in another Renesas plants. This scheme had been built since M&A in 2010. “FAB Network” is to enhance flexibility of production in response to sudden acceleration of demand or in emergency.

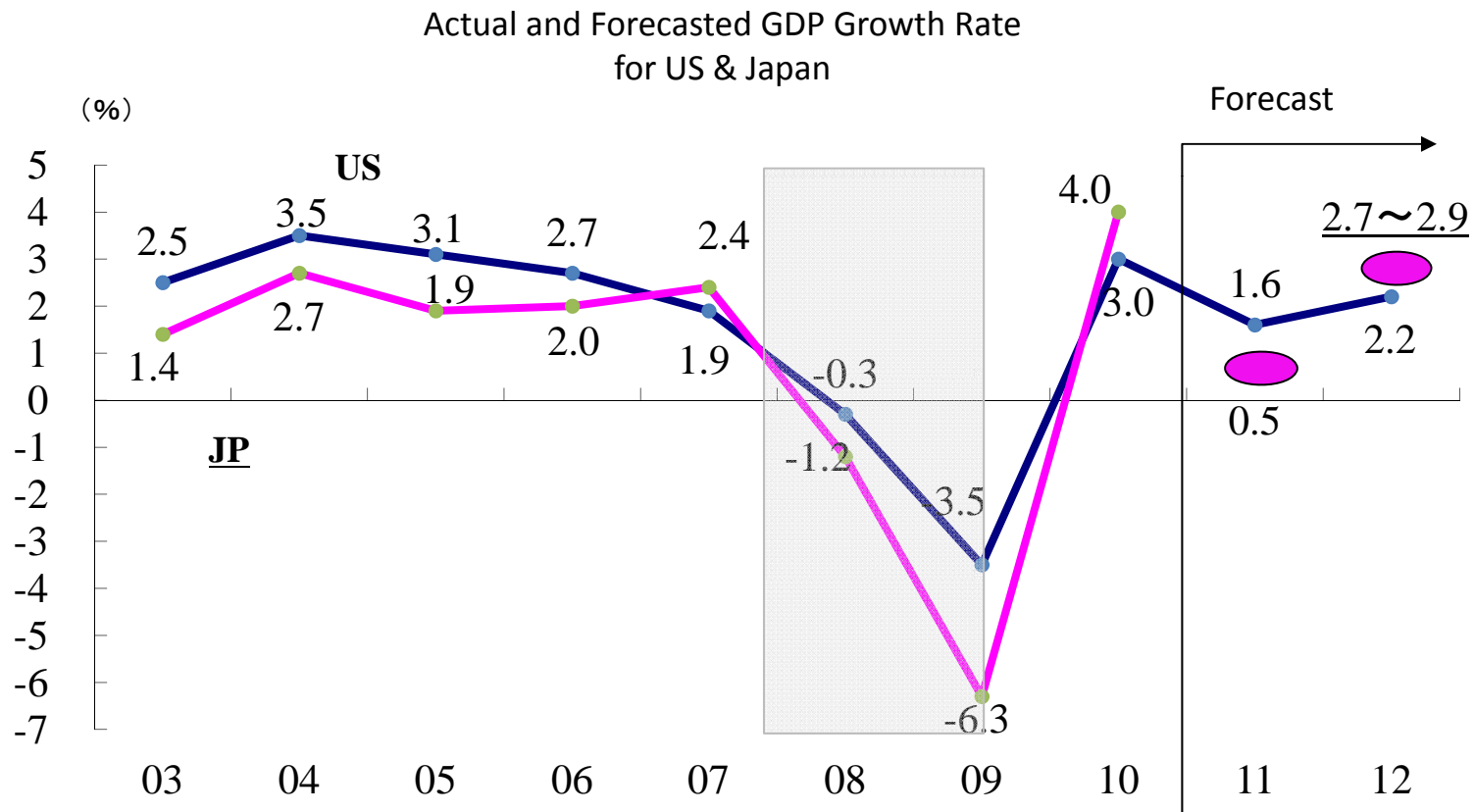
Source: “Renesas, Recovery” (video uploaded on youtube by Renesas)

“I witnessed very strong GENBA (field site). You are the symbol of recovery of JAPAN not only of Nissan.” (Carlos Ghosn, CEO of Nissan-Renault, at Iwaki Nissan plant)

Source: Nikkei (September 11, 2011)

- high morale toward recovery;
  - All Hands on Deck
  - Customers all over the world are waiting for our products
  - Support and cooperation from business partners or beyond rivalry
  
- high responsibility and leadership shown by each division's leaders
  - Sharing issues, making decision quickly
  
- exceeding technological capability

- US: Decreased pace of economic recovery in the first half of 2011
- Japan: Severe economic slowdown due to the large impact of the earthquake in the first half of 2011



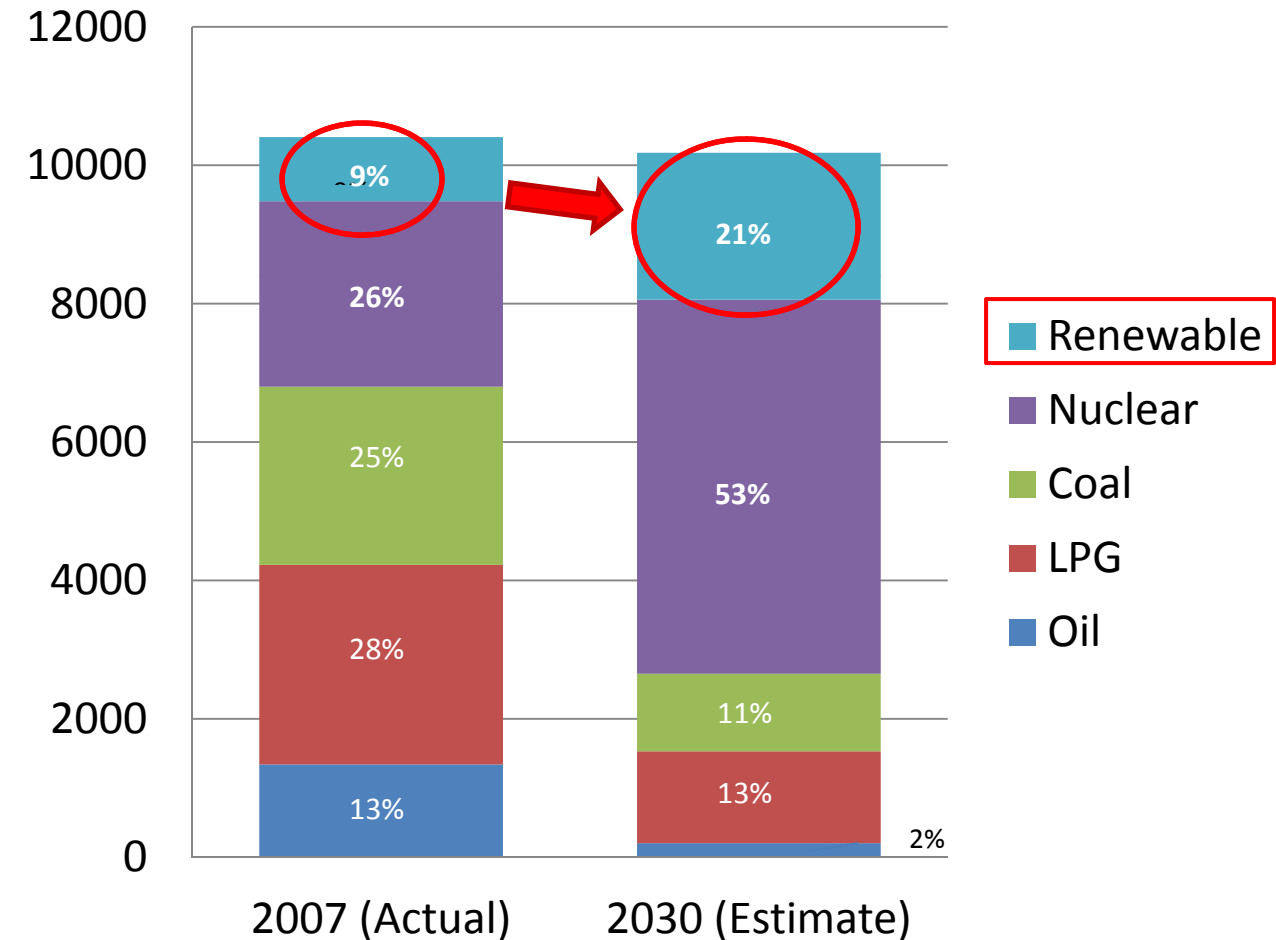
June 2010

“The Strategic Energy Plan” enacted

August 2011

“Interim Report on Strategies to Revitalize Japan” (Cabinet Decision)  
 ⇒ Government will formulate “innovative energy and environmental strategies” in 2012

(100mil kWh) **Breakdown of Generated Electricity**

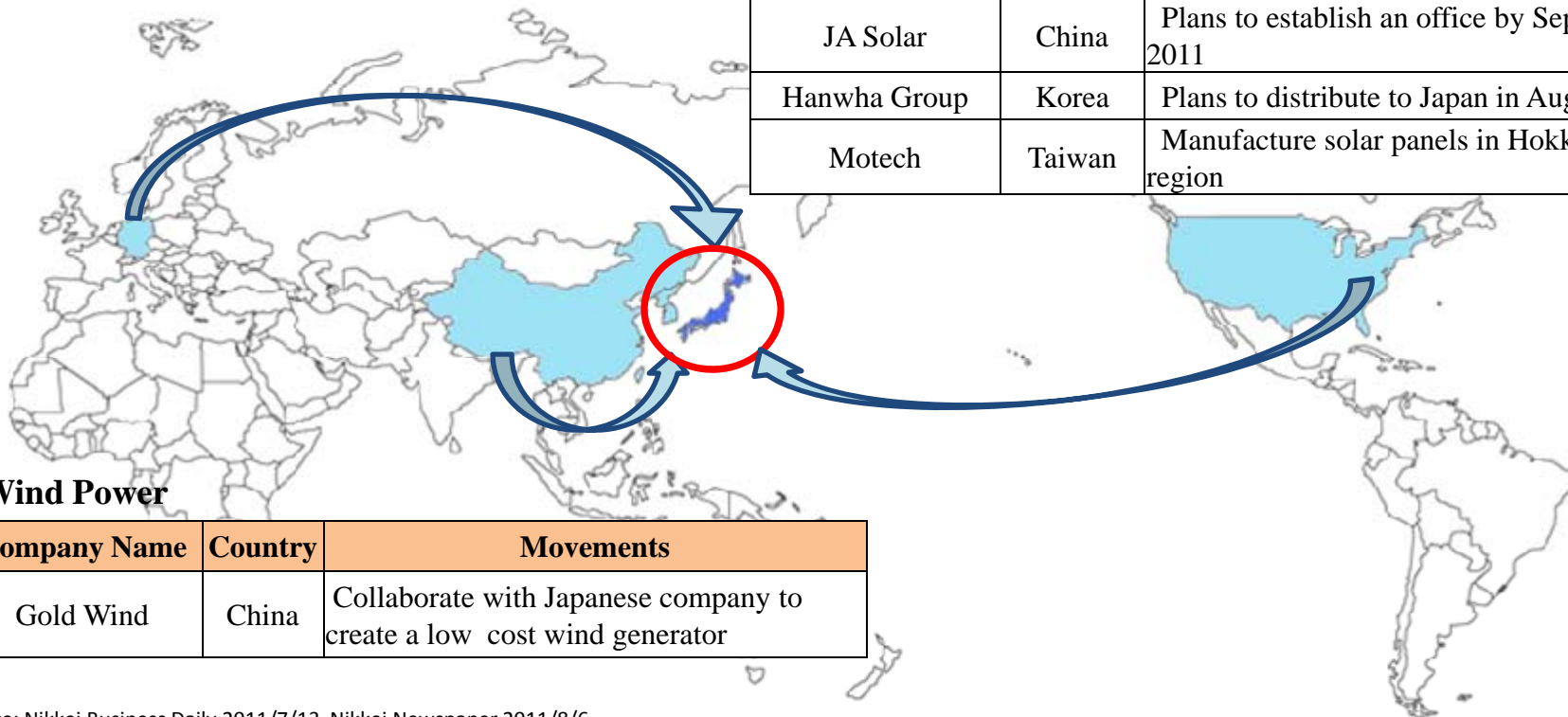


## Smart Grid

Company Name	Country	Movements
General Electric	USA	Joint Venture with Fuji Electric in February
IBM	USA	Initiated R&D in Kita-Kyushu City
Hewlett Packard, SAP	USA	Working on a smart grid system in Chiba Prefecture

## Solar Power

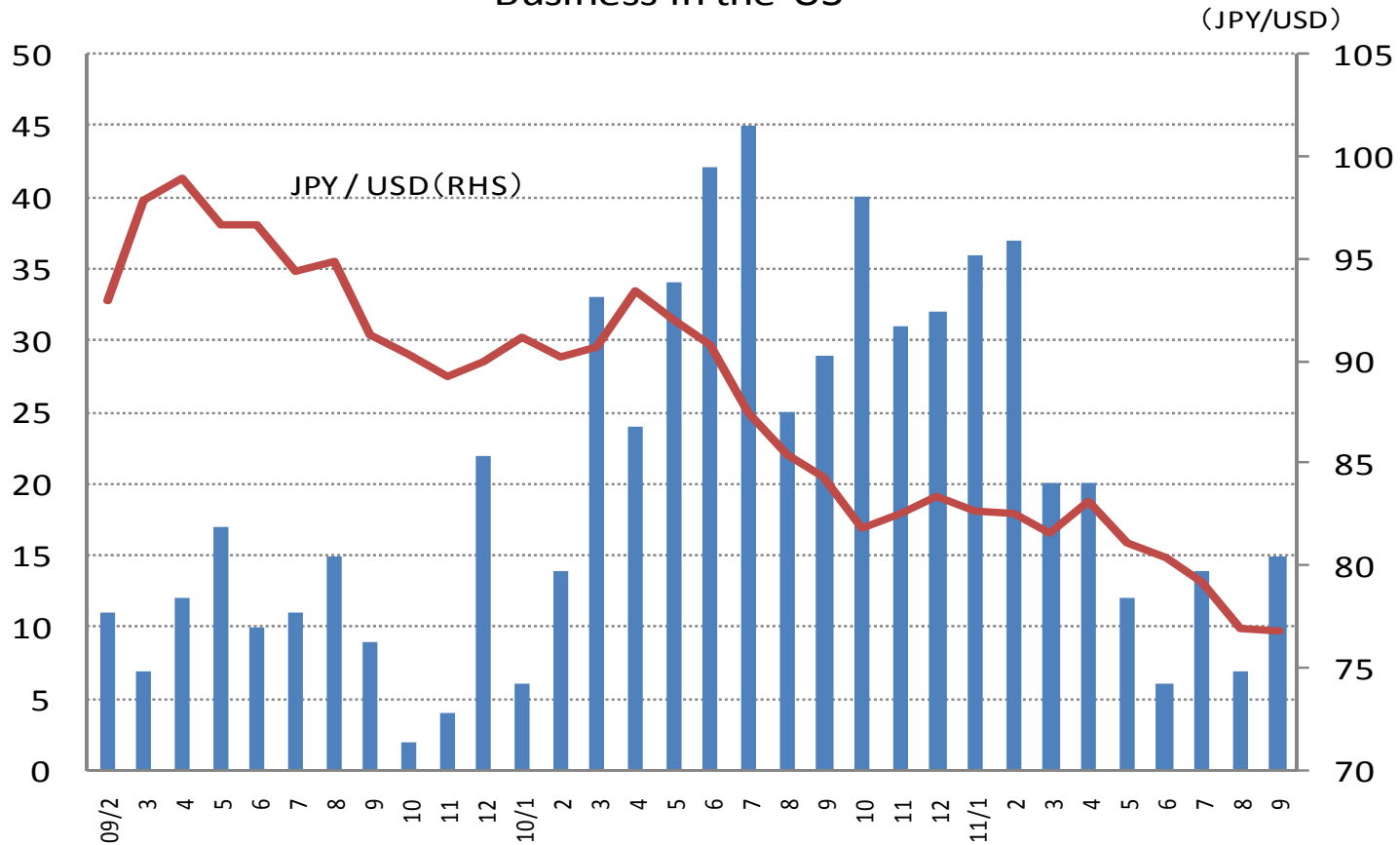
Company Name	Country	Movements
SunPower	USA	Toshiba has made a distribution agreement
Canadian Solar	Canada	Selling there solar panels to Japanese companies
Q-Cells	Germany	Established a sales office in Japan
Yingli Green Energy	China	Collaborated on sales with Japanese companies
Trina Solar	China	Sales distributors have increased to 10,000
Suntech Power	China	Acquired 2 Japanese companies
JA Solar	China	Plans to establish an office by September 2011
Hanwha Group	Korea	Plans to distribute to Japan in August 2011
Motech	Taiwan	Manufacture solar panels in Hokkaido region



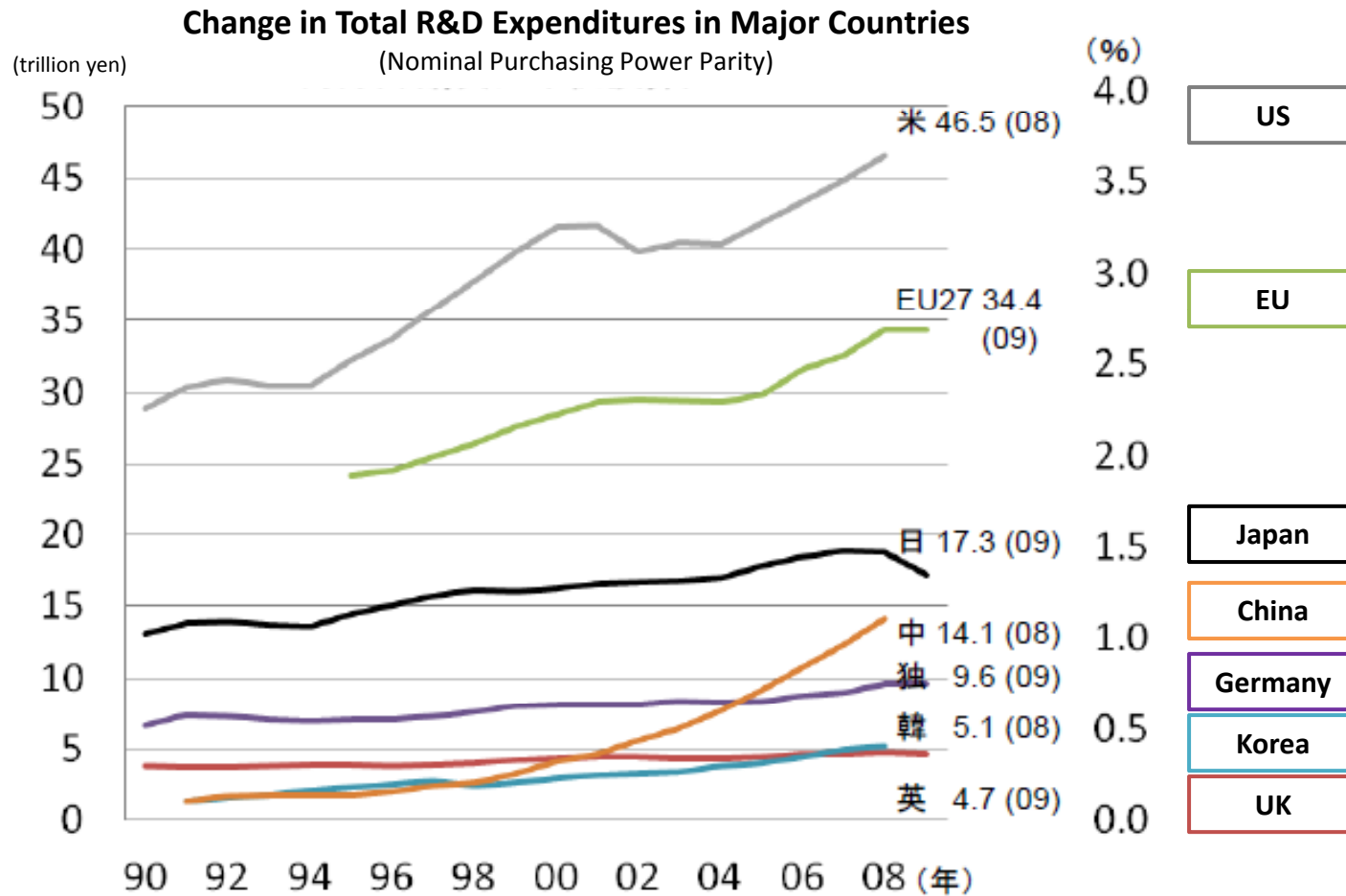
## Wind Power

Company Name	Country	Movements
Gold Wind	China	Collaborate with Japanese company to create a low cost wind generator

Number of Japanese Companies that Newly Opened Business in the US



Numbers are based on Reports from News Agency



Source: Survey on scientific and technological research (Ministry of Internal Affairs and Communications);  
Main Scientific and Technology Indicators (OCED)



**THANK YOU**

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