



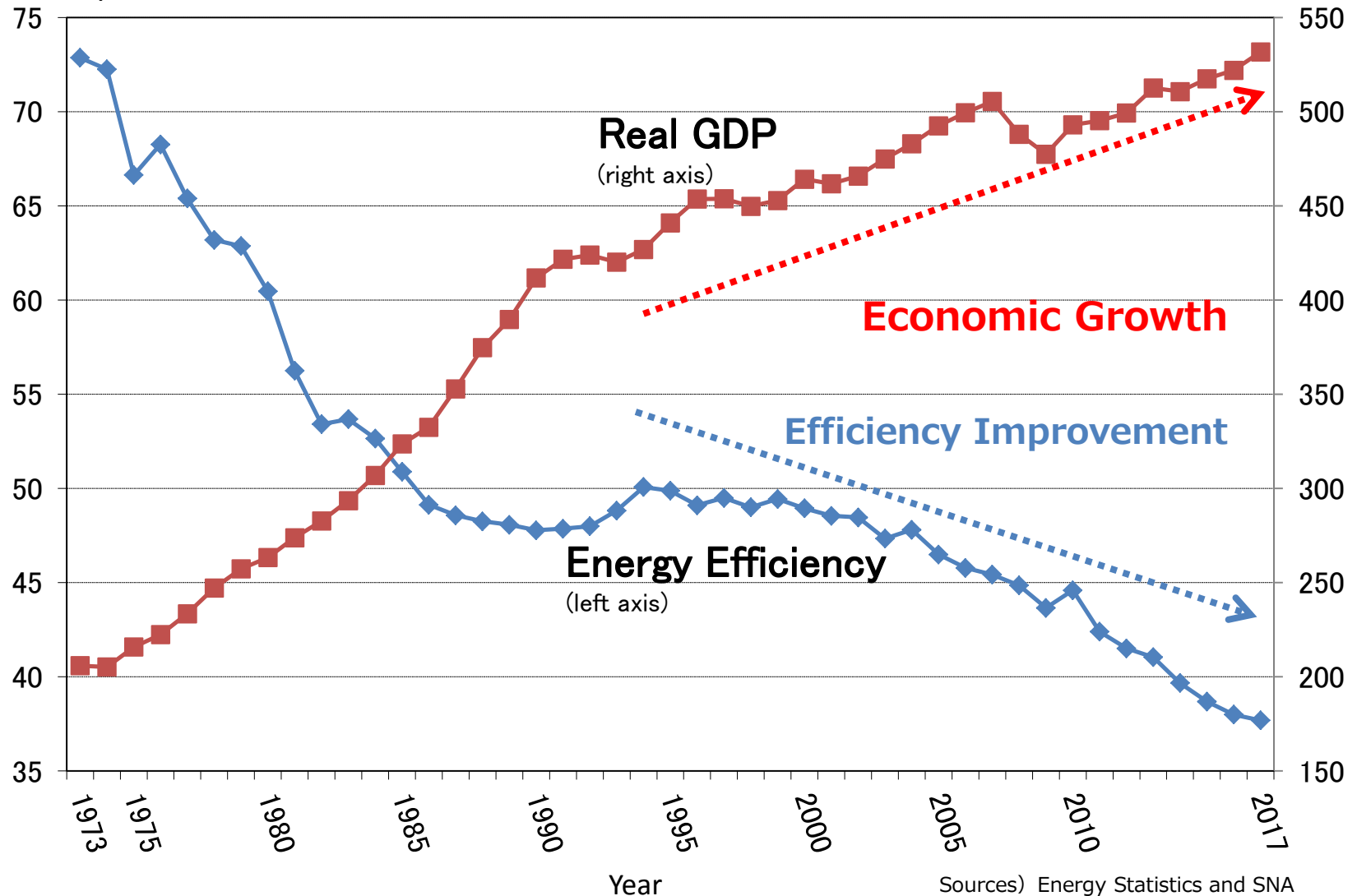
Minister Singh and Minister Seko agreed on further cooperation through “Japan-India Energy Transition Cooperation Plan”

- (1)Electricity and Renewable Energy**
- (2)Energy Efficiency and Conservation**
- (3)Coal**
- (4)Petroleum and Natural Gas**
- (5)Hydrogen**

Annual change in the "Energy Supply per Real GDP"

Millions KL,
(Crude Oil Equivalent
per JPY trillion)

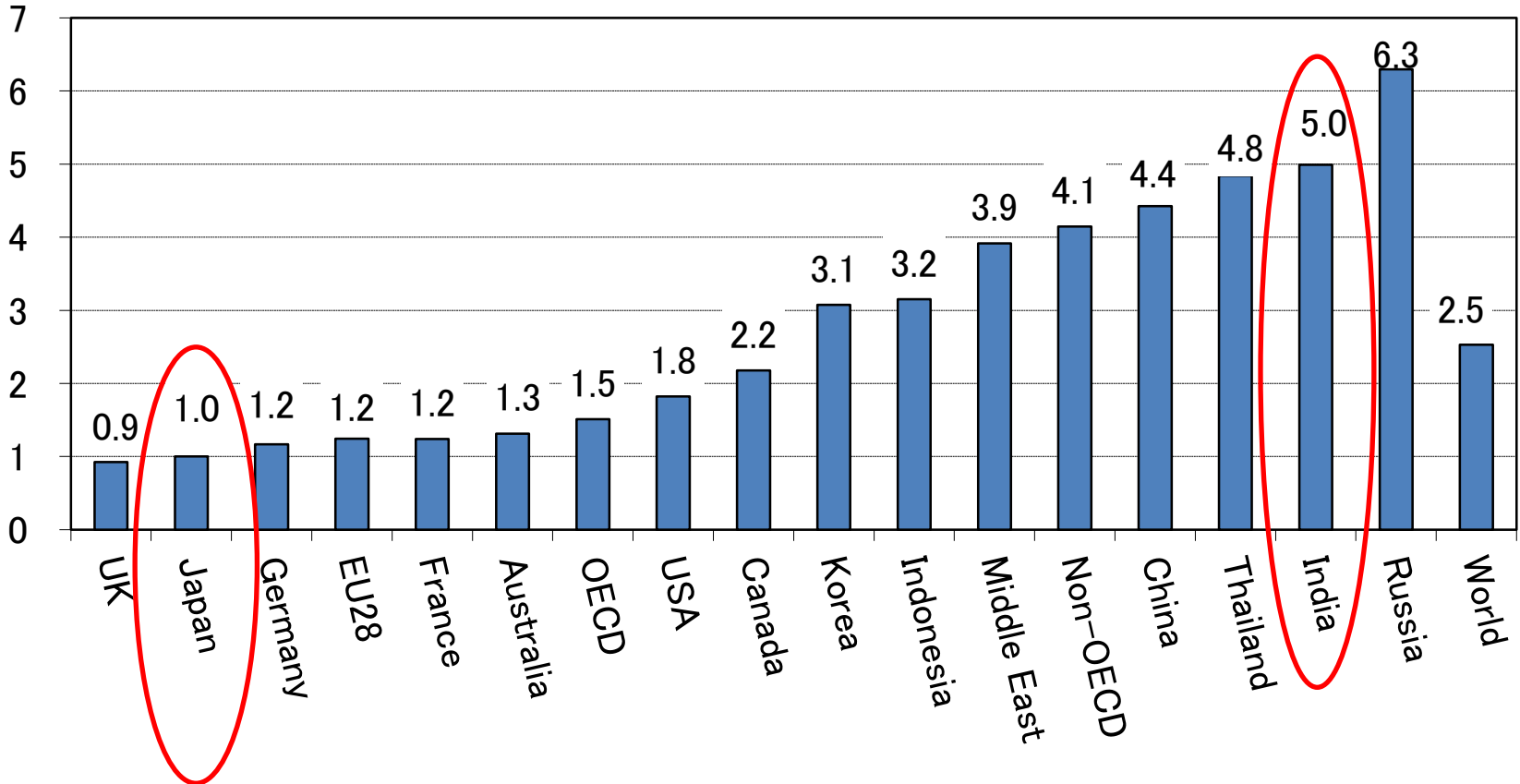
JPY Trillion



Sources) Energy Statistics and SNA

Energy Efficiency of each country (Primary energy supply per GDP) (2016)

Japan=1

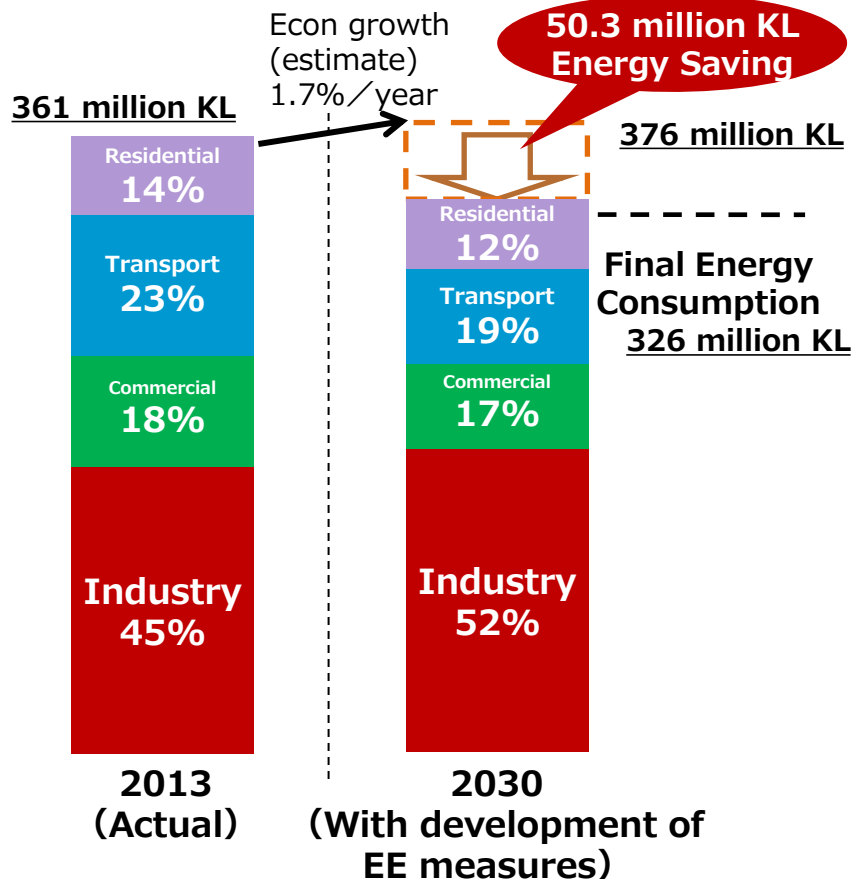


Sources) IEA [World Energy Balances 2018 Edition]
World Bank [World Development Indicators 2018]

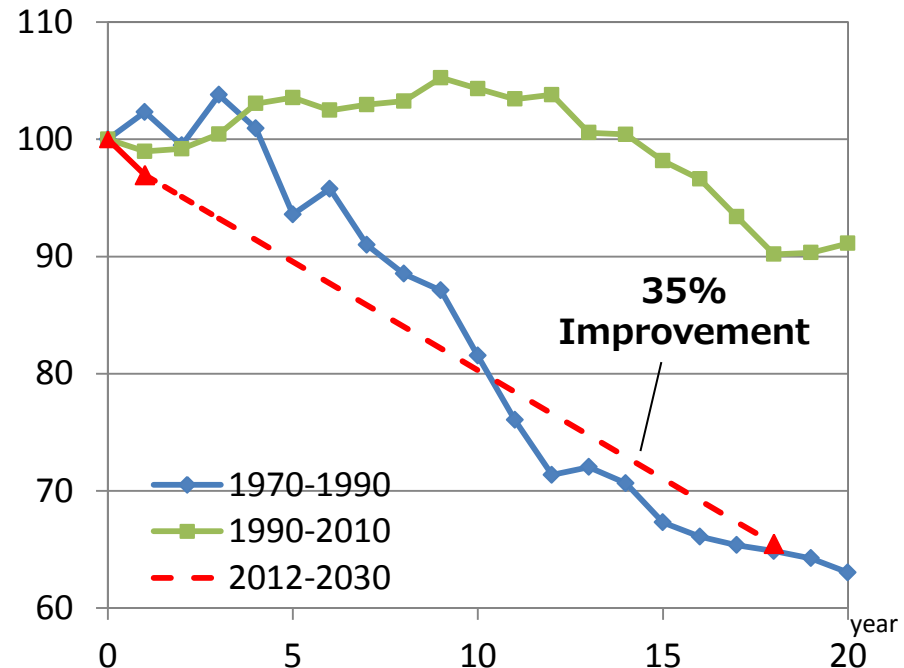
Energy Demand and Supply Outlook

- Long-term energy demand and supply outlook targets 50.3 million KL energy saving, which requires further 35% efficiency improvement from 2012 in 2030.

Final energy consumption (Long-term energy demand & supply outlook)



Energy Efficiency Improvement



Energy efficiency rate = Final energy consumption / real GDP

Progress status of energy efficiency measures of “Energy Mix”

Total <approx. -50.30 million kl>

-10.73 million kl (Progress rate : 21.3%) as of 2017

Industrial Sector <approx. -10.42 million kl>

-2.39 million kl (Progress rate : 23.0%) as of 2017

➤ Main measures

- Promotion of efficient lights including LED [0.58 / 1.08 million kl (54.1%)]
- Introduction of industrial heat pump [0.6 / 0.88 million kl (6.9%)]
- Introduction of industrial motors [0.11 / 1.66 million kl (6.6%)]
- Implementation of **energy management through FEMS**
[0.09 / 0.67 million kl (13.2%)]

Commercial Sector <approx. -12.26 million kl>

-2.53 million kl (Progress rate : 20.6%) as of 2017

➤ Main measures

- Promotion of efficient lights including LED [1.16 / 2.29 million kl (50.7%)]
- Improve energy-saving performance of equipment by equipment **top runner program** [0.41 / 2.78 million kl (14.8%)]
- Implementation of **energy management through BEMS**
[0.48 / 2.35 million kl (20.5%)]

Residential Sector <approx. -11.60 million kl>

-2.19 million kl (Progress rate : 18.9%) as of 2017

➤ Main measures

- Promotion of efficient lights including LED [1.15 / 2.01 million kl (57.2%)]
- Improve energy-saving performance of equipment by equipment **top runner program**
[0.16 / 1.34 million kl (11.9%)]
- Promotion of **energy-saving house**
[0.24 / 3.57 million kl (0.7%)]

Transportation Sector <approx. -16.07 million kl>

-3.62 million kl (Progress rate : 22.5%) as of 2017

➤ Main measures

- Diffusion of next-generation automobiles [0.72 / 9.39 million kl (7.6%)]
- Other measures in transportation sector [2.91 / 6.68 million kl (43.5%)]
(Breakdown)
Freight transport [1.44 / 3.38 million kl (42.5%)]
Passenger transport [1.47 / 3.31 million kl (44.6%)]