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”

Real GDP (right axis)

Economic Growth

Efficiency Improvement

Energy Efficiency (left axis)

Millions KL,
(Crude Oil Equivalent per JPY trillion)

Sources: Energy Statistics and SNA
Energy Efficiency of each country (Primary energy supply per GDP) (2016)

Sources) IEA「World Energy Balances 2018 Edition」
World Bank「World Development Indicators 2018」
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)

- 2013 (Actual)
  - Residential: 14%
  - Transport: 23%
  - Commercial: 18%
  - Industry: 45%

- 2030 (With development of EE measures)
  - Residential: 12%
  - Transport: 19%
  - Commercial: 17%
  - Industry: 52%

Econ growth (estimate) 1.7%/year

50.3 million KL Energy Saving

Final Energy Consumption
326 million KL

Energy Efficiency Improvement

Energy efficiency rate = Final energy consumption / real GDP

35% Improvement

1970-1990
1990-2010
2012-2030
## 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%)]