

# Energy and Economy Indicators of Japan

Updated 2018/8/10

(Quarterly)

To be updated in Oct. 2018

| Quarterly                                       | 2Q2017  | 3Q2017  | 4Q2017  | 1Q2018  | 2Q2018  | Growth Rate: Y-o-Y |        |        |        |        |
|---|---------|---------|---------|---------|---------|--------------------|--------|--------|--------|--------|
|   |         |         |         |         |         | 2Q2017             | 3Q2017 | 4Q2017 | 1Q2018 | 2Q2018 |
| <b>Economy</b>                                  |         |         |         |         |         | %                  |        |        |        |        |
| Real GDP (Billion yen in 2011 price)            | 530,723 | 533,355 | 534,715 | 533,911 | -       | (0.5)              | (0.5)  | (0.3)  | (-0.2) | -      |
| GDP (Billion yen)                               | 545,531 | 549,637 | 550,869 | 548,661 | -       | (0.9)              | (0.8)  | (0.2)  | (-0.4) | -      |
| IIP (2010=100)                                  | 101.8   | 102.3   | 103.9   | 102.5   | 103.7   | (1.8)              | (0.5)  | (1.6)  | (-1.3) | (1.2)  |
| Raw Materials Production (1,000t)               |         |         |         |         |         |                    |        |        |        |        |
| Crude Steel                                     | 26,095  | 25,942  | 26,395  | 26,406  | 26,565  | -0.4               | -1.5   | 0.0    | 0.7    | 1.8    |
| Ethylene  | 1,566   | 1,607   | 1,685   | 1,601   | 1,392   | 5.6                | 9.0    | 1.7    | -4.3   | -11.1  |
| Cement  | 13,036  | 13,940  | 14,851  | 13,116  | 13,377  | 5.4                | 4.6    | 2.2    | -1.9   | 2.6    |
| Paper & Pulp                                    | 6,591   | 6,532   | 6,755   | 6,527   | -       | 1.1                | 0.3    | 1.2    | -1.7   | -      |
| Domestic Corporate Price Index (2015=100)       | 98.4    | 98.8    | 99.7    | 100.3   | 101.0   | 2.1                | 2.8    | 3.4    | 2.5    | 2.6    |
| CPI (2015=100)                                  | 100.3   | 100.3   | 100.9   | 101.2   | 100.9   | 0.4                | 0.6    | 0.6    | 1.3    | 0.6    |
| Exchange Rate (¥/\$)                            | 111.1   | 111.0   | 113.0   | 108.2   | 109.1   | (-2.2)             | (-0.0) | (1.7)  | (0.0)  | (0.0)  |
| Crude Oil Price (CIF, \$/Bbl)                   | 53.34   | 49.57   | 58.62   | 66.44   | 70.52   | (-3.0)             | (-7.1) | (18.2) | (13.4) | (6.1)  |
| LNG Price (CIF, \$/MMBtu)                       | 433.00  | 428.93  | 412.85  | 469.02  | 502.16  | (9.1)              | (-0.9) | (-3.7) | (13.6) | (7.1)  |
| Steam Coal (CIF, \$/t)                          | 98.58   | 97.66   | 103.99  | 109.03  | 114.88  | (2.6)              | (-0.9) | (6.5)  | (4.8)  | (5.4)  |
| Cooling Degree Days                             | 37      | 0       | 345     | 690     | 28      | 58.6               | -      | 31.2   | 1.5    | -24.2  |
| Cooling Degree Day                              | 18      | 377     | 2       | 0       | 37      | -38.2              | -3.9   | -74.5  | -      | 111.9  |
| <b>Energy</b>                                   |         |         |         |         |         |                    |        |        |        |        |
| Total Primary Energy Supply (ktoe)              | 106,246 | 113,911 | 118,865 | 123,190 | 104,482 | 1.4                | 0.4    | 1.5    | -1.1   | -1.7   |
| Coal  | 28,370  | 32,377  | 32,191  | 30,944  | 28,267  | 7.1                | 0.3    | 2.5    | -1.9   | -0.4   |
| Oil   | 43,300  | 43,519  | 48,200  | 50,268  | 40,906  | -0.5               | -0.7   | -2.0   | -1.5   | -5.5   |
| Crude Oil                                       | 39,874  | 43,446  | 42,719  | 43,772  | 37,774  | -6.5               | -0.7   | -2.3   | -4.7   | -5.3   |
| Petroleum Products                              | 3,426   | 72      | 5,481   | 6,496   | 3,132   | 290.3              | -3.4   | 0.6    | 27.2   | -8.6   |
| Natural Gas                                     | 768     | 716     | 801     | 816     | 664     | 13.3               | 5.1    | 10.1   | -10.8  | -13.6  |
| LNG   | 22,980  | 26,101  | 27,751  | 31,478  | 22,150  | -5.6               | -4.7   | 1.4    | -3.4   | -3.6   |
| Hydro   | 4,854   | 4,683   | 3,943   | 3,669   | 5,516   | -1.8               | 7.9    | 7.5    | 9.9    | 13.6   |
| Nuclear   | 1,535   | 2,098   | 1,714   | 1,480   | 2,175   | 80.9               | 101.4  | 96.2   | 50.6   | 41.7   |
| New Energies                                    | 4,439   | 4,417   | 4,264   | 4,535   | 4,804   | 12.0               | 11.5   | 8.6    | 9.9    | 8.2    |
| CO <sub>2</sub> Emission (Mt- CO <sub>2</sub> ) | 241.9   | 245.9   | 292.9   | 302.8   | 248.1   | -4.9               | -13.1  | 12.2   | -2.1   | 2.5    |
| <b>Electricity</b> ※                            |         |         |         |         |         |                    |        |        |        |        |
| Total Power Supply (Billion Wh)                 | 226,973 | 267,433 | 259,893 | 284,328 | -       | 1.0                | 2.7    | 6.8    | 7.0    | -      |
| Power Generation (Billion Wh)                   | 199,849 | 236,115 | 229,925 | 247,389 | -       | -0.9               | -1.0   | 2.7    | 1.5    | -      |
| Hydro   | 24,486  | 24,012  | 20,126  | 19,249  | -       | 0.4                | 8.9    | 10.0   | 12.2   | -      |
| Thermal   | 164,104 | 198,616 | 198,069 | 216,806 | -       | -3.4               | -4.7   | -0.1   | -0.7   | -      |
| Nuclear   | 7,032   | 9,638   | 7,869   | 6,740   | -       | 78.5               | 100.4  | 95.8   | 48.6   | -      |
| New Energies                                    | 4,164   | 3,779   | 3,782   | 4,531   | -       | 22.1               | 22.8   | 13.7   | 17.2   | -      |
| Fuel Consumption                                |         |         |         |         |         |                    |        |        |        |        |
| Coal (1,000t)                                   | 24,186  | 30,905  | 29,558  | 30,348  | -       | 5.8                | 2.7    | 2.7    | 4.2    | -      |
| Crude Oil (Million l)                           | 253     | 237     | 430     | 666     | -       | -60.6              | -65.4  | -26.6  | -23.7  | -      |
| Fuel Oil (Million l)                            | 1,058   | 1,481   | 1,523   | 2,146   | -       | 8.0                | -29.0  | -26.4  | -0.6   | -      |
| LNG (1,000t)                                    | 11,044  | 13,400  | 13,409  | 15,065  | -       | -8.0               | -6.5   | -0.8   | -4.9   | -      |
| Electricity Sales (Billion Wh)                  | 209,159 | 236,298 | 217,968 | 250,802 | -       | 1.4                | 0.3    | 1.3    | 3.3    | -      |
| Low voltage                                     | -       | -       | -       | -       | -       | 1.8                | 0.2    | 2.3    | 5.2    | -      |
| Lighting Contract                               | 59,497  | 65,432  | 64,060  | 90,316  | -       | 1.8                | 0.3    | 2.7    | 5.4    | -      |
| Power Contract                                  | 8,110   | 10,558  | 8,273   | 11,186  | -       | 1.5                | -0.5   | -0.0   | 3.9    | -      |
| High voltage                                    | 71,486  | 84,953  | 74,434  | 78,742  | -       | 1.1                | -0.2   | 0.3    | 1.9    | -      |
| Extra-High Voltage                              | 57,301  | 61,549  | 58,077  | 56,898  | -       | 0.9                | 0.8    | 1.3    | 1.1    | -      |
| Electric Power Demand (Billion Wh)              | 200,099 | 232,547 | 224,934 | 243,561 | 202,017 | 0.5                | -0.3   | 2.9    | 1.6    | 1.0    |
| <b>Natural Gas</b>                              |         |         |         |         |         |                    |        |        |        |        |
| City Gas Sales (Million m <sup>3</sup> )        | 9,850   | 9,386   | 10,348  | 12,895  | -       | 5.6                | -2.2   | 3.5    | 2.3    | -      |
| Residential                                     | 2,380   | 1,201   | 2,356   | 3,940   | -       | 4.9                | 1.3    | 9.4    | 3.8    | -      |
| Commercial                                      | 949     | 1,167   | 974     | 1,279   | -       | 2.2                | -1.2   | 0.7    | 3.1    | -      |
| Industrial                                      | 5,796   | 6,012   | 6,210   | 6,506   | -       | 6.0                | -3.6   | 2.5    | 1.1    | -      |
| Others  | 725     | 1,007   | 808     | 1,169   | -       | 9.6                | 0.9    | -1.2   | 3.3    | -      |
| <b>Oil</b>                                      |         |         |         |         |         |                    |        |        |        |        |
| Fuel Oil Sales (Million l)                      | 40,028  | 41,332  | 46,359  | 46,978  | 37,952  | -0.8               | -0.5   | -1.9   | -1.7   | -5.2   |
| Gasoline  | 12,577  | 13,868  | 13,158  | 12,230  | 12,466  | -1.0               | -1.6   | -1.9   | -0.6   | -0.9   |
| Naphtha   | 10,982  | 11,039  | 11,904  | 11,081  | 9,789   | 3.1                | 5.6    | 1.2    | -7.1   | -10.9  |
| Kerosene  | 2,063   | 1,607   | 5,727   | 7,243   | 1,835   | 2.1                | 5.3    | 5.2    | -0.0   | -11.1  |
| Diesel/Gas Oil                                  | 8,170   | 8,540   | 8,716   | 8,405   | 8,121   | 3.9                | 1.1    | -0.5   | 1.9    | -0.6   |
| Fuel Oil A                                      | 2,519   | 2,269   | 3,127   | 3,593   | 2,460   | -6.0               | -5.9   | -4.9   | -0.3   | -2.4   |
| Fuel Oil B/C                                    | 2,440   | 2,530   | 2,559   | 3,347   | 1,882   | -21.3              | -21.4  | -22.4  | 6.0    | -22.9  |
| for Power Generation                            | 1,304   | 1,370   | 1,319   | 2,225   | -       | -29.8              | -32.2  | -33.3  | 8.7    | -      |
| LPG (1,000t)                                    | 2,983   | 2,755   | 3,161   | 3,598   | 2,828   | 1.9                | -2.2   | -1.4   | -2.7   | -5.2   |
| <b>Crude Oil</b>                                |         |         |         |         |         |                    |        |        |        |        |
| Imports (Million l)                             | 43,942  | 47,426  | 47,668  | 46,055  | 41,478  | -8.2               | 1.5    | -0.4   | -5.2   | -5.6   |
| Middle East Ratio (%)                           | 84.0    | 87.1    | 88.5    | 89.5    | 89.2    | [-4.3]             | [1.4]  | [1.1]  | [2.1]  | [5.2]  |
| Crude Oil Processing (Million l)                | 43,309  | 47,261  | 46,576  | 47,082  | 41,148  | -5.9               | -0.2   | -2.0   | -5.2   | -5.0   |

Note: Growth Rate in (xx) shows the growth rate from the previous quarter, and in [xx] shows the difference from the previous year.

※ The scope of the survey is Electric Utilities.

Source: IEEJ Databank. Original statistics are sourced and compiled from statistics of METI, MOF and Bank of Japan.

**Other statistics are available at IEEJ website, and more for members of the EDMC Databank.**