

The Calculation of the Fuel Cost Adjustment Unit Price and the Electricity Rates for October 2021 (Kanto Area)

1. The calculation of the Average Fuel Price

- ① Calculate the 3-month average fuel price for each fuel type (i.e. crude oil, LNG, and coal).
- ② Multiply the average fuel prices in ① above by the respective conversion factors, and add all the numbers together.

(Below are the prices provided in the Trade Statistics of Japan published by the Ministry of Finance Japan)

	Jan. - Mar. 2012 (at the time of rate revision)	Apr. 2021 - Jun. 2021 (for Sep. 2021)	May 2021- Jul. 2021 (for October 2021)			
			Average	May 2021	Jun. 2021	Jul. 2021
Crude Oil (JPY/kl)	57,802	46,036	47,569	44,881	47,604	49,874
LNG (JPY/ t)	67,548	47,727	51,725	47,295	51,454	55,521
Coal (JPY/ t)	11,452	11,484	12,460	11,416	12,290	13,446
Average Fuel Price(JPY/kl)	44,200	33,100		(detailed data)	(detailed data)	(preliminary data)

  

				< Conversion Factor >	
				Crude Oil Conversion Factor	
				× Caloric Component Ratio	
Crude Oil Price	47,569 JPY/kl	×	0.1970	(α)	
LNG Price	51,725 JPY/ t	×	0.4435	(β)	
Coal Price	12,460 JPY/ t	×	0.2512	(γ)	
+ )					
<b>Average Fuel Price</b>			<b>35,400 JPY/kl</b>	(Maximum unit: 100 JPY) Rounded off to the nearest 10 (compared with the previous period: + 2,300JPY/kl)	

2. The calculation of the Fuel Cost Adjustment Unit Price (in the case of Low-Voltage Supply)

$$\begin{aligned}
 \text{Fuel Cost Adjustment Unit Price} &= \left( \frac{\text{Average Fuel Price}}{35,400 \text{ JPY/kl}} - \frac{\text{Basic Fuel Price}}{44,200 \text{ JPY/kl}} \right) \times \frac{\text{Basic Unit Price}}{1,000} \\
 &= \frac{-2.0416 \text{ JPY/kWh}}{1,000} \\
 &\downarrow \text{(rounded off to two decimal places)} \\
 &= \boxed{-2.04 \text{ JPY/kWh}}
 \end{aligned}$$

3. The calculation of the Electricity Rates for October 2021 (in the case of the average model)

\*The fuel cost adjustment price, which is calculated by multiplying the fuel cost adjustment unit price by the amount of power consumed, is included in the electricity rates.

Example: For the customers of 30A meter-rate lighting B with 260kWh of electricity consumption per month.

Automatic bank transfer discount included.

Demand Charge 858.00 JPY	+	<table border="0" style="width: 100%;"> <tr> <th colspan="2" style="text-align: center;">Energy Charge</th> </tr> <tr> <td style="text-align: right;">19.88 JPY/kWh</td> <td style="text-align: left;">× 120kWh</td> </tr> <tr> <td style="text-align: right;">26.48 JPY/kWh</td> <td style="text-align: left;">× 140kWh</td> </tr> <tr> <td colspan="2" style="text-align: center;">+</td> </tr> <tr> <td colspan="2" style="text-align: center;">Fuel Cost Adjustment</td> </tr> <tr> <td style="text-align: right;">Fuel Cost Adjustment Unit Price</td> <td style="text-align: left;">Consumption</td> </tr> <tr> <td style="text-align: right;">-2.04 JPY/kWh</td> <td style="text-align: left;">× 260kWh</td> </tr> </table>	Energy Charge		19.88 JPY/kWh	× 120kWh	26.48 JPY/kWh	× 140kWh	+		Fuel Cost Adjustment		Fuel Cost Adjustment Unit Price	Consumption	-2.04 JPY/kWh	× 260kWh	+	Renewable Energy Promotion Surcharge 873 JPY	-	Automated Bank Transfer Discount 55 JPY	=	7,238 JPY
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• The calculated electricity rates above include a consumption tax and other costs.