

The Calculation of the Fuel Cost Adjustment Unit Price and the Electricity Rates for October 2019  
(Kanto Area / At 8% consumption tax rate)

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. 2019 - Jun. 2019 (for Sep. 2019)	May 2019- Jul. 2019 (for Oct. 2019)			
			Average	May 2019	Jun. 2019	Jul. 2019
Crude Oil (JPY/kl)	57,802	49,687	48,847	50,995	50,139	45,724
LNG (JPY/ t)	67,548	54,271	53,433	54,272	52,759	53,262
Coal (JPY/ t)	11,452	12,665	12,038	12,454	12,311	11,506
Average Fuel Price(JPY/kl)	44,200	37,000				

(detailed data) (detailed data) (preliminary data)

  

	< Conversion Factor >		
	Crude Oil Conversion Factor		
	× Caloric Component Ratio		
Crude Oil Price	48,847 JPY/kl	×	0.1970 (α)
LNG Price	53,433 JPY/ t	×	0.4435 (β)
Coal Price	12,038 JPY/ t	×	0.2512 (γ)
+ )			
<b>Average Fuel Price</b>	<b>36,300 JPY/kl</b>		

(Maximum unit: 100 JPY) Rounded off to the nearest 10  
(compared with the previous period: -700JPY/kl)

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

$$\begin{aligned}
 \text{Fuel Cost Adjustment Unit Price} &= \left( \frac{\text{Average Fuel Price}}{36,300 \text{ JPY/kl}} - \frac{\text{Basic Fuel Price}}{44,200 \text{ JPY/kl}} \right) \times \frac{\text{Basic Unit Price}}{1,000} \\
 &= \frac{-1.8012 \text{ JPY/kWh}}{1,000} \\
 &\downarrow \text{(rounded off to two decimal places)} \\
 &= \frac{-1.80 \text{ JPY/kWh}}{1,000}
 \end{aligned}$$

3. The calculation of the Electricity Rates for October 2019 (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  842.40 JPY	+	<table style="width: 100%; text-align: center;"> <tr> <th colspan="2">Energy Charge</th> </tr> <tr> <td>19.52 JPY/kWh</td> <td>× 120kWh</td> </tr> <tr> <td>26.00 JPY/kWh</td> <td>× 140kWh</td> </tr> <tr> <td colspan="2">+</td> </tr> <tr> <td colspan="2">Fuel Cost Adjustment</td> </tr> <tr> <td style="border: 1px dashed black; padding: 2px;">Fuel Cost Adjustment Unit Price</td> <td style="border: 1px dashed black; padding: 2px;">Consumption</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">-1.80 JPY/kWh</td> <td>× 260kWh</td> </tr> </table>	Energy Charge		19.52 JPY/kWh	× 120kWh	26.00 JPY/kWh	× 140kWh	+		Fuel Cost Adjustment		Fuel Cost Adjustment Unit Price	Consumption	-1.80 JPY/kWh	× 260kWh	+	Renewable Energy Promotion Surcharge  767 JPY	-	Automated Bank Transfer Discount  54 JPY
Energy Charge																				
19.52 JPY/kWh	× 120kWh																			
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Fuel Cost Adjustment Unit Price	Consumption																			
-1.80 JPY/kWh	× 260kWh																			
= 7,069 JPY																				

• The calculated electricity rates above include a consumption tax and other costs.