

The Calculation of the Fuel Cost Adjustment Unit Price and the Electricity Rates for October 2023 (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)

	Nov. 2022 - Jan. 2023 (at the time of rate revision)	Apr. 2023 - Jun. 2023 (for September 2023)	May 2023 - Jul. 2023 (for October 2023)			
			Average	May 2023	Jun. 2023	Jul. 2023
Crude Oil (JPY/kl)	82,572	71,537	72,562	73,610	71,957	72,053
LNG (JPY/t)	132,509	89,884	88,546	89,461	87,053	89,046
Coal (JPY/t)	53,189	34,685	31,293	33,293	31,650	29,569

Average Fuel Price (JPY/kl)	86,100	57,600		
	(Basic Fuel Price)		↓	
Crude Oil Price	72,562 JPY/kl		×	0.0048 (α)
LNG Price	88,546 JPY/t		×	0.3827 (β)
+) Coal Price	31,293 JPY/t		×	0.6584 (γ)
↓				
Average Fuel Price	54,800 JPY/kl		(Maximum unit: 100 JPY) Rounded off to the nearest 10 (compared with the previous period: ▲2,800JPY/kl)	

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

- ① Subtract the basic fuel price from the average fuel price and then multiply the result by the basic unit price to calculate the basic fuel cost adjustment unit price
- ② Subtract the fuel cost adjustment unit price resulting from special measures from the basic fuel cost adjustment unit price to calculate the fuel cost adjustment unit price.

$$\begin{aligned}
 \text{Basic Fuel Cost Adjustment Unit Price} &= \left(\boxed{54,800 \text{ JPY/kl}} - \boxed{86,100 \text{ JPY/kl}} \right) \times \frac{\text{<Basic Unit Price> } 0.183 \text{ JPY/KWh}}{1,000 \text{ JPY}} \\
 &= \boxed{-5.7279 \text{ JPY/kWh}} \\
 &\quad \downarrow \text{(rounded off to two decimal places)} \\
 \text{Fuel Cost Adjustment Unit Price} &= \boxed{-5.73 \text{ JPY/kWh}} - \boxed{3.50 \text{ JPY/kWh}} \\
 &= \boxed{-9.23 \text{ JPY/kWh}}
 \end{aligned}$$

Unit price discount as a nationwide measure for mitigating sharp fluctuations in electricity rates

* For customers who have signed up for the Renewable Energy Credit Plan, the fuel cost adjustment unit price does not include the unit price discount since the billing amount is already discounted based on the amount of electricity used.

3. The calculation of the Electricity Rates for October 2023 (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.

Demand Charge	+	<table style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">Energy Charge</td> </tr> <tr> <td style="text-align: right;">30.00 JPY/kWh</td> <td style="text-align: left;">× 120 kWh</td> </tr> <tr> <td style="text-align: right;">36.60 JPY/kWh</td> <td style="text-align: left;">× 140 kWh</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="border: 1px solid black; text-align: right;">-9.23 JPY/kWh</td> <td style="text-align: left;">× 260 kWh</td> </tr> </table>	Energy Charge		30.00 JPY/kWh	× 120 kWh	36.60 JPY/kWh	× 140 kWh	+		Fuel Cost Adjustment		Fuel Cost Adjustment Unit Price	Consumption	-9.23 JPY/kWh	× 260 kWh	+	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Renewable Energy Promotion Surcharge</td> </tr> <tr> <td style="text-align: center;">364 JPY</td> </tr> </table>	Renewable Energy Promotion Surcharge	364 JPY	=	7.573 JPY
Energy Charge																						
30.00 JPY/kWh	× 120 kWh																					
36.60 JPY/kWh	× 140 kWh																					
+																						
Fuel Cost Adjustment																						
Fuel Cost Adjustment Unit Price	Consumption																					
-9.23 JPY/kWh	× 260 kWh																					
Renewable Energy Promotion Surcharge																						
364 JPY																						

* The calculated electricity rate above includes a consumption tax and other costs.

* Includes electricity consumption discount of [Used electricity volume (260 kWh)] × 3.50 JPY/kWh as a nationwide measure for mitigating sharp fluctuations in electricity rates.