

The Calculation of the Fuel Cost Adjustment Unit Price and the Electricity Rates for December 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)	Jun. 2023 - Aug. 2023 (for November 2023)	Jul. 2023 - Sep. 2023 (for December 2023)			
			Average	Jul. 2023	Aug. 2023	Sep. 2023
Crude Oil (JPY/kl)	82,572	72,598	75,015	72,095	73,569	79,650
LNG (JPY/t)	132,509	88,168	88,305	89,046	88,272	87,657
Coal (JPY/t)	53,189	29,440	27,709	29,564	27,417	26,083
Average Fuel Price (JPY/kl)	86,100	53,500		(detailed data)	(detailed data)	(preliminary data)
	(Basic Fuel Price)			<Conversion Factor> Crude Oil Conversion Factor X Caloric Component Ratio		
Crude Oil Price		75,015 JPY/kl	x	0.0048	(α)	
LNG Price		88,305 JPY/t	x	0.3827	(β)	
+) Coal Price		27,709 JPY/t	x	0.6584	(γ)	
		↓		(Maximum unit: 100 JPY) Rounded off to the nearest 10 (compared with the previous period: -1,100JPY/kl)		
Average Fuel Price		52,400 JPY/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.

$$\begin{aligned}
 \text{Basic Fuel Cost Adjustment Unit Price} &= \left(\text{Average Fuel Price} - \text{Basic Fuel Price} \right) \times \text{Basic Unit Price} \\
 &= \left(52,400 \text{ JPY/kl} - 86,100 \text{ JPY/kl} \right) \times \frac{0.183 \text{ JPY/kWh}}{1,000 \text{ JPY}} \\
 &= -6.1671 \text{ JPY/kWh} \\
 &\quad \downarrow \text{(rounded off to two decimal places)} \\
 \text{Fuel Cost Adjustment Unit Price} &= -6.17 \text{ JPY/kWh} - 3.50 \text{ JPY/kWh} \\
 &= -9.67 \text{ JPY/kWh}
 \end{aligned}$$

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 December 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: center;">30.00 JPY/kWh</td> <td style="text-align: center;">x 120 kWh</td> </tr> <tr> <td style="text-align: center;">36.60 JPY/kWh</td> <td style="text-align: center;">x 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: center;">Fuel Cost Adjustment Unit Price</td> <td style="text-align: center;">Consumption</td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">-9.67 JPY/kWh</td> <td style="text-align: center;">x 260 kWh</td> </tr> </table>	Energy Charge		30.00 JPY/kWh	x 120 kWh	36.60 JPY/kWh	x 140 kWh	+		Fuel Cost Adjustment		Fuel Cost Adjustment Unit Price	Consumption	-9.67 JPY/kWh	x 260 kWh	+	Renewable Energy Promotion Surcharge	=	7,459 JPY
Energy Charge																				
30.00 JPY/kWh	x 120 kWh																			
36.60 JPY/kWh	x 140 kWh																			
+																				
Fuel Cost Adjustment																				
Fuel Cost Adjustment Unit Price	Consumption																			
-9.67 JPY/kWh	x 260 kWh																			
885.72 JPY				364 JPY																

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

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