

The Calculation of the Fuel Cost Adjustment Unit Price and the Electricity Rates for December 2022 (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)	Jun. 2022 - Aug. 2022 (for Nov. 2022)	Jul. 2022 - Sep. 2022 (for Dec. 2022)			
			Average	Jul. 2022	Aug. 2022	Sep. 2022
Crude Oil (JPY/kl)	57,802	96,918	97,466	99,579	95,654	97,511
LNG (JPY/t)	67,548	123,030	142,803	126,937	139,618	164,922
Coal (JPY/t)	11,452	49,450	51,875	51,329	51,222	53,258

	Average Fuel Price (JPY/kl)	44,200	86,100	
	(Basic Fuel Price)			
			↓	
Crude Oil Price		97,466 JPY/kl	×	0.1970 (α)
LNG Price		142,803 JPY/t	×	0.4435 (β)
+) Coal Price		51,875 JPY/t	×	0.2512 (γ)
		↓		
Average Fuel Price		95,600 JPY/kl		(Maximum unit: 100 JPY) Rounded off to the nearest 10 (compared with the previous period : +9,500JPY/kl)

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

Subtract the basic fuel price from the average fuel price and then multiply the result by the basic unit price to calculate the fuel cost adjustment unit price.

(1) Contracts for which specified retail supply agreements apply

$$\begin{aligned}
 \text{Fuel Cost Adjustment Unit Price}^* &= (\text{Average Fuel Price} - \text{Basic Fuel Price}) \times \text{Basic Unit Price} \\
 &= (66,300 \text{ JPY/kl} - 44,200 \text{ JPY/kl}) \times \frac{0.232 \text{ JPY/kWh}}{1,000 \text{ JPY}} \\
 &= 5.1272 \text{ JPY/kWh} \\
 &\quad \downarrow \text{(rounded off to two decimal places)} \\
 &= 5.13 \text{ JPY/kWh}
 \end{aligned}$$

* Calculated based on the average fuel price of 66,300 yen/kl because the average fuel price exceeded the maximum price (66,300 yen/kl)

(2) Contracts for which electricity supply/demand agreements (low voltage) apply

$$\begin{aligned}
 \text{Fuel Cost Adjustment Unit Price} &= (\text{Average Fuel Price} - \text{Basic Fuel Price}) \times \text{Basic Unit Price} \\
 &= (95,600 \text{ JPY/kl} - 44,200 \text{ JPY/kl}) \times \frac{0.232 \text{ JPY/kWh}}{1,000 \text{ JPY}} \\
 &= 11.9248 \text{ JPY/kWh} \\
 &\quad \downarrow \text{(rounded off to two decimal places)} \\
 &= 11.92 \text{ JPY/kWh}
 \end{aligned}$$

3. The calculation of the Electricity Rates for December 2022 (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 JPY	+	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Energy Charge</td> <td></td> </tr> <tr> <td style="text-align: center;">19.88 JPY/kWh</td> <td style="text-align: center;">× 120kWh</td> </tr> <tr> <td style="text-align: center;">26.48 JPY/kWh</td> <td style="text-align: center;">× 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: 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;">5.13 JPY/kWh</td> <td style="text-align: center;">× 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	5.13 JPY/kWh	× 260kWh	+	Renewable Energy Promotion Surcharge 897 JPY	-	Automated Bank Transfer Discount 55 JPY	=	9,126 JPY
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* The calculated electricity rate above includes a consumption tax and other costs.