

The Calculation of the Fuel Cost Adjustment Unit Price and the Electricity Rates for February 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)

	Jan. - Mar. 2012 (at the time of rate revision)	Aug. 2022 - Oct. 2022 (for Jan. 2023)	Sept. 2022 - Nov. 2022 (for Feb. 2023)			
			Average	Sept. 2022	Oct. 2022	Nov. 2022
Crude Oil (JPY/kl)	57,802	96,630	95,549	97,571	96,750	92,344
LNG (JPY/t)	67,548	152,786	152,007	164,909	156,568	135,445
Coal (JPY/t)	11,452	53,483	56,336	53,236	56,870	59,231
Average Fuel Price (JPY/kl)	44,200	100,200		(detailed data)	(detailed date)	(preliminary data)
	(Basic Fuel Price)			<Conversion Factor> Crude Oil Conversion Factor X Caloric Component Ratio		
Crude Oil Price		95,549 JPY/kl	x	0.1970	(α)	
LNG Price		152,007 JPY/t	x	0.4435	(β)	
+) Coal Price		56,336 JPY/t	x	0.2512	(γ)	
<b>Average Fuel Price</b>		<b>100,400 JPY/kl</b>		(Maximum unit: 100 JPY) Rounded off to the nearest 10 (compared with the previous period : +200JPY/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.

(1) Contracts for which specified retail supply agreements apply

$$\begin{aligned}
 \text{Basic Fuel Cost Adjustment Unit Price} &= ( \text{Average Fuel Price} - \text{Basic Fuel Price} ) \times \text{Basic Unit Price} \\
 &= ( 66,300 \text{ JPY/kl} - 44,200 \text{ JPY/kl} ) \times \frac{0.232 \text{ JPY/kWh}}{1,000 \text{ JPY}} \\
 &= 5.1272 \text{ JPY/kWh} \\
 &\quad \downarrow \text{(rounded off to two decimal places)} \\
 \text{Fuel Cost Adjustment Unit Price} &= 5.13 \text{ JPY/kWh} - 7.00 \text{ JPY/kWh} \\
 &= -1.87 \text{ JPY/kWh}
 \end{aligned}$$

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

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

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

$$\begin{aligned}
 \text{Basic Fuel Cost Adjustment Unit Price} &= ( \text{Average Fuel Price} - \text{Basic Fuel Price} ) \times \text{Basic Unit Price} \\
 &= ( 100,400 \text{ JPY/kl} - 44,200 \text{ JPY/kl} ) \times \frac{0.232 \text{ JPY/kWh}}{1,000 \text{ JPY}} \\
 &= 13.0384 \text{ JPY/kWh} \\
 &\quad \downarrow \text{(rounded off to two decimal places)} \\
 \text{Fuel Cost Adjustment Unit Price} &= 13.04 \text{ JPY/kWh} - 7.00 \text{ JPY/kWh} \\
 &= 6.04 \text{ JPY/kWh}
 \end{aligned}$$

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 February 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.  
Automatic bank transfer discount included.

Demand Charge	+	<table border="0" style="width: 100%;"> <tr> <td style="padding: 2px;">Energy Charge</td> <td style="padding: 2px;">19.88 JPY/kWh</td> <td style="padding: 2px;">x</td> <td style="padding: 2px;">120kWh</td> <td style="padding: 2px;">+</td> <td style="padding: 2px;">26.48 JPY/kWh</td> <td style="padding: 2px;">x</td> <td style="padding: 2px;">140kWh</td> </tr> <tr> <td style="padding: 2px;">Fuel Cost Adjustment</td> <td colspan="7"></td> </tr> <tr> <td style="padding: 2px;">Fuel Cost Adjustment Unit Price</td> <td style="padding: 2px;">-1.87 JPY/kWh</td> <td style="padding: 2px;">x</td> <td style="padding: 2px;">Consumption</td> <td colspan="4"></td> </tr> <tr> <td></td> <td colspan="2"></td> <td style="padding: 2px;">260kWh</td> <td colspan="4"></td> </tr> </table>	Energy Charge	19.88 JPY/kWh	x	120kWh	+	26.48 JPY/kWh	x	140kWh	Fuel Cost Adjustment								Fuel Cost Adjustment Unit Price	-1.87 JPY/kWh	x	Consumption								260kWh					+	Renewable Energy Promotion Surcharge	-	Automated Bank Transfer Discount
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858 JPY					897 JPY		55 JPY		=	7,306 JPY																												

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

\* Includes electricity consumption discount of [Used electricity volume]x7.00 JPY/kWh as a nationwide measure for mitigating sharp fluctuations in electricity rates.