

The Calculation of the Fuel Cost Adjustment Unit Price and the Electricity Rates for September 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)	Mar. 2022 - May 2022 (for Aug. 2022)	Apr. 2022 - Jun. 2022 (for Sept. 2022)			
			Average	Apr. 2022	May 2022	Jun. 2022
Crude Oil (JPY/kl)	57,802	79,338	88,732	83,567	87,634	95,876
LNG (JPY/t)	67,548	96,853	101,844	99,967	104,407	101,103
Coal (JPY/t)	11,452	30,427	38,217	30,878	38,291	44,986
Average Fuel Price (JPY/kl)	44,200	66,200		(detailed data)	(detailed data)	(preliminary data)
	(Basic Fuel Price)			<Conversion Factor> Crude Oil Conversion Factor X Caloric Component Ratio		
Crude Oil Price		88,732 JPY/kl	×	0.1970	(α)	
LNG Price		101,844 JPY/t	×	0.4435	(β)	
+) Coal Price		38,217 JPY/t	×	0.2512	(γ)	
Average Fuel Price		72,200 JPY/kl		(Maximum unit: 100 JPY) Rounded off to the nearest 10 (compared with the previous period : +6,000JPY/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

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

* 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

$$\begin{aligned}
 \text{Fuel Cost Adjustment Unit Price} &= \left(\frac{\text{Average Fuel Price}}{72,200 \text{ JPY/kl}} - \frac{\text{Basic Fuel Price}}{44,200 \text{ JPY/kl}} \right) \times \frac{\text{Basic Unit Price}}{0.232 \text{ JPY/kWh} \times 1,000 \text{ JPY}} \\
 &= \frac{6.4960 \text{ JPY/kWh}}{\downarrow \text{(rounded off to two decimal places)}} \\
 &= \boxed{6.50 \text{ JPY/kWh}}
 \end{aligned}$$

3. The calculation of the Electricity Rates for September 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	+	<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 × 120kWh</td> <td></td> </tr> <tr> <td style="text-align: center;">26.48 JPY/kWh × 140kWh</td> <td></td> </tr> <tr> <td style="text-align: center;">+</td> <td></td> </tr> <tr> <td style="text-align: center;">Fuel Cost Adjustment</td> <td></td> </tr> <tr> <td style="text-align: center;">Fuel Cost Adjustment Unit Price × Consumption</td> <td></td> </tr> <tr> <td style="text-align: center;">5.13 JPY/kWh × 260kWh</td> <td></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	-	Automated Bank Transfer Discount
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858 JPY				897 JPY		55 JPY														
						= 9,126 JPY														

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