

Calculation of Fuel Cost Adjusted Unit Price and Electricity Rates for December 2012

1. Average Fuel Price Calculation

Calculate a 3-month average fuel prices by fuel types (crude oil, LNG, and coal).

Calculate average fuel price using above three figures and conversion factor.

(trade statistics prices published by Ministry of Finance Japan)

	Jan.-Mar. 2012 (Rate Revision)	Jun. - Aug. 2012 (for Nov. 2012)	Jul. - Sep. 2012 (for December 2012)			
			Average	Jul. 2012	Aug. 2012	Sep. 2012
Crude Oil (JPY/kl)	57,802	53,051	52,519	51,127	50,886	55,076
LNG (JPY/ t)	67,548	72,689	71,841	74,396	72,658	68,433
Coal (JPY/ t)	11,452	10,227	10,039	10,225	9,905	9,983
Average Fuel Price(JPY/kl)	44,200	45,300		(fixed)	(fixed)	(flash)

< Conversion Factor >
Crude Oil Conversion Factor
× Caloric Component Ratio

Crude Oil Price	52,519 JPY/kl	×	0.1970	(α)	
LNG Price	71,841 JPY/ t	×	0.4435	(β)	
Coal Price	10,039 JPY/ t	×	0.2512	(γ)	
+)					
↓ (rounded off to 100 JPY)					
Average Fuel Price	44,700 JPY/kl	(compared with the previous period: -600Y/kl)			

2. Fuel Cost Adjusted Unit Price Calculation (Low-Voltage Supply)

$$\begin{aligned}
 \text{Fuel Cost Adjusted Unit Price} &= (\text{Average Fuel Price} - \text{Basic Fuel Price}) \times \frac{\text{Basic Unit Price}}{1,000} \\
 &= (44,700 \text{ JPY/kl} - 44,200 \text{ JPY/kl}) \times \frac{0.222 \text{ JPY/kWh}}{1,000} \\
 &= 0.1110 \text{ JPY/kWh} \\
 &\downarrow \text{ (rounded off to the hundredth) } \\
 &= 0.11 \text{ JPY/kWh}
 \end{aligned}$$

3. Electricity Rates Calculation for December 2012 (averaged model)

The fuel cost adjusted price, which is the fuel cost adjusted unit price multiplied by consumption, is added to calculate the electricity rate.

In case of 30A meter-rate lighting B and 290kWh of electricity consumption per month.

A reduction by automatic bank transfer discount included.

Demand Charge	+	Energy Charge 18.89 JPY/kWh × 120 kWh 25.19 JPY/kWh × 170 kWh + Fuel Cost Adjustment Fuel Cost Adjusted Unit Price × Consumption 0.11 JPY/kWh × 290 kWh	+	Renewable Energy Promotion Surcharge	+	Solar Surcharge	-	Account Transfer Discount	
819.00 JPY				63 JPY		17 JPY		53 JPY	= 7,427 JPY

* tax included