

Calculation of Fuel Cost Adjusted Unit Price and Electricity Rates for March 2013

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)	Sep. - Nov. 2012 (for Feb. 2013)	Sep. 2012 - Nov. 2012 (for March 2013)			
			Average	Oct. 2012	Nov. 2012	Dec. 2012
Crude Oil (JPY/kl)	57,802	56,241	57,651	56,919	57,195	58,494
LNG (JPY/ t)	67,548	64,918	64,566	62,878	63,200	67,210
Coal (JPY/ t)	11,452	9,833	9,800	9,819	9,690	9,907
Average Fuel Price(JPY/kl)	44,200	42,300		(fixed)	(fixed)	(flash)

(basic fuel price)

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

Crude Oil Price	57,651 JPY/kl	×	0.1970 (α)	
LNG Price	64,566 JPY/ t	×	0.4435 (β)	
Coal Price	9,800 JPY/ t	×	0.2512 (γ)	
+)				
Average Fuel Price			↓(Maximum unit: 100 JPY) Rounded off to nearest 10 (compared with the previous period: +200Y/kl)	
42,500 JPY/kl				

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

$$\begin{aligned}
 \text{Fuel Cost Adjusted Unit Price} &= (\text{Average Fuel Price} - \text{Basic Fuel Price}) \times \frac{\text{Basic Unit Price}}{1,000} \\
 &= (42,500 \text{ JPY/kl} - 44,200 \text{ JPY/kl}) \times \frac{0.222 \text{ JPY/kWh}}{1,000} \\
 &= -0.3774 \text{ JPY/kWh} \\
 &\quad \downarrow \text{(rounded off to the hundredth)} \\
 &= \boxed{-0.38 \text{ JPY/kWh}}
 \end{aligned}$$

3. Electricity Rates Calculation for March 2013 (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 -0.38 JPY/kWh × 290 kWh	+	Renewable Energy Promotion Surcharge 63 JPY	+	Solar Surcharge 17 JPY	-	Account Transfer Discount 53 JPY	
819.00 JPY									= 7,284 JPY/kl

* tax included

END