

Calculation of Fuel Cost Adjusted Unit Price and Electricity Rates for May 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)	Nov. 2012 - Jan. 2013 (for Apr. 2013)	Dec. 2012 - Feb. 2013 (for May 2013)			
			Average	Dec. 2012	Jan. 2013	Feb. 2013
Crude Oil (JPY/kl)	57,802	59,038	61,612	58,538	61,317	65,134
LNG (JPY/ t)	67,548	68,399	73,522	67,210	73,723	79,765
Coal (JPY/ t)	11,452	10,011	10,439	9,925	10,477	10,909
				(fixed)	(fixed)	(flash)
Average Fuel Price(JPY/kl)	44,200	44,500				

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

Crude Oil Price	61,612	JPY/kl	×	0.1970	(α)
LNG Price	73,522	JPY/ t	×	0.4435	(β)
Coal Price	10,439	JPY/ t	×	0.2512	(γ)
+) ↓(Maximum unit: 100 JPY) Rounded off to nearest 10					
Average Fuel Price	47,400	JPY/kl			(compared with the previous period: +2,000Y/kl)

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

$$\begin{aligned}
 \text{Fuel Cost Adjusted Unit Price} &= (\text{Average Fuel Price} - \text{Basic Fuel Price}) \times \frac{\text{Basic Unit Price}}{1,000} \\
 &= (47,400 \text{ JPY/kl} - 44,200 \text{ JPY/kl}) \times \frac{0.222 \text{ JPY/kWh}}{1,000} \\
 &= 0.7104 \text{ JPY/kWh} \\
 &\quad \downarrow \text{(rounded off to the hundredth)} \\
 &= \boxed{0.71 \text{ JPY/kWh}}
 \end{aligned}$$

3. Electricity Rates Calculation for May 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 0.71 JPY/kWh × 290 kWh	+	Renewable Energy Promotion Surcharge Not determined yet	+	Solar Surcharge 14 JPY	-	Account Transfer Discount 53 JPY	= 7,535 JPY/kl
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* tax included

* Calculation example above is not fixed yet since Renewable Energy Power Promotion Surcharge which is applied for the electricity rate in May 2013 is not determined at present.

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