

Calculation of Fuel Cost Adjusted Unit Price and Electricity Rates for March 2014

1. Average Fuel Price Calculation

- ① Calculate a 3-month average fuel prices by fuel types (crude oil, LNG, and coal).
- ② 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 2013 (for Feb 2014)	Oct - Dec 2013 (for March 2014)			
			Average	Oct 2013	Nov 2013	Dec 2013
Crude Oil (JPY/kl)	57,802	69,659	70,681	70,159	69,823	71,910
LNG (JPY/ t)	67,548	78,336	81,084	77,451	80,183	85,277
Coal (JPY/ t)	11,452	10,373	10,430	10,146	10,343	10,793
Average Fuel Price(JPY/kl)	44,200	51,100		(fixed)	(fixed)	(flash)

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

Crude Oil Price	70,681 JPY/kl	×	0.1970	(α)
LNG Price	81,084 JPY/ t	×	0.4435	(β)
+) Coal Price	10,430 JPY/ t	×	0.2512	(γ)

↓(Maximum unit: 100 JPY) Rounded off to nearest 10

Average Fuel Price 52,500 JPY/kl (compared with the previous period: +1400Y/kl)

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

$$\begin{aligned}
 \text{Fuel Cost Adjusted Unit Price} &= \left(\begin{array}{c} \text{<Average Fuel Price>} \\ 52,500 \text{ JPY/kl} \end{array} - \begin{array}{c} \text{<Basic Fuel Price>} \\ 44,200 \text{ JPY/kl} \end{array} \right) \times \frac{\begin{array}{c} \text{<Basic Unit Price>} \\ 0.222 \text{ JPY/kWh} \end{array}}{1,000} \\
 &= 1.8426 \text{ JPY/kWh} \\
 &\quad \downarrow \text{(rounded off to the hundredth)} \\
 &= 1.84 \text{ JPY/kWh}
 \end{aligned}$$

3. Electricity Rates Calculation for March 2014 (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 1.84 JPY/kWh × 290 kWh	+	Renewable Energy Promotion Surcharge	+	Solar Surcharge	-	Account Transfer Discount
819.00 JPY				101 JPY		14 JPY		53 JPY
= 7,963 JPY/kl								

* tax included