

Calculation of Fuel Cost Adjusted Unit Price and Electricity Rates for August 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)	Feb - Apr 2013 (for Jul 2013)	Mar - May 2013 (for August 2013)			
			Average	Mar 2013	Apr 2013	May 2013
Crude Oil (JPY/kl)	57,802	66,888	67,390	68,422	67,134	66,550
LNG (JPY/ t)	67,548	80,780	82,499	80,222	82,477	85,267
Coal (JPY/ t)	11,452	11,041	11,177	11,126	11,093	11,304
Average Fuel Price(JPY/kl)	44,200	51,800		(fixed)	(fixed)	(flash)

(basic fuel price)

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

Crude Oil Price	67,390 JPY/kl	×	0.1970 (α)	
LNG Price	82,499 JPY/ t	×	0.4435 (β)	
Coal Price	11,177 JPY/ t	×	0.2512 (γ)	
+) ↓(Maximum unit: 100 JPY) Rounded off to nearest 10				
Average Fuel Price	52,700 JPY/kl	(compared with the previous period: +900Y/kl)		

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

$$\begin{aligned}
 \text{Fuel Cost Adjusted Unit Price} &= (\text{Average Fuel Price} - \text{Basic Fuel Price}) \times \frac{\text{Basic Unit Price}}{1,000} \\
 &= (52,700 \text{ JPY/kl} - 44,200 \text{ JPY/kl}) \times \frac{0.222 \text{ JPY/kWh}}{1,000} \\
 &= 1.887 \text{ JPY/kWh} \\
 &\quad \downarrow \text{(rounded off to the hundredth)} \\
 &= \boxed{1.89 \text{ JPY/kWh}}
 \end{aligned}$$

3. Electricity Rates Calculation for August 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 1.89 JPY/kWh × 290 kWh	+	Renewable Energy Promotion Surcharge	+	Solar Surcharge	-	Account Transfer Discount	
819.00 JPY				101 JPY		14 JPY		- 53 JPY	= 7,978 JPY/kl

* tax included

END