

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

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)	Jun - Aug 2013 (for Nov 2013)	Jul - Sep 2013 (for December 2013)			
			Average	Jul 2013	Aug 2013	Sep 2013
Crude Oil (JPY/kl)	57,802	65,706	66,766	65,018	66,350	68,968
LNG (JPY/ t)	67,548	82,406	80,284	83,816	79,361	77,324
Coal (JPY/ t)	11,452	10,702	10,608	10,719	10,447	10,654
Average Fuel Price(JPY/kl)	44,200	52,200		(fixed)	(fixed)	(flash)
(basic fuel price)			< Conversion Factor > Crude Oil Conversion Factor × Caloric Component Ratio			
Crude Oil Price			66,766 JPY/kl	×	0.1970 (α)	
LNG Price			80,284 JPY/ t	×	0.4435 (β)	
Coal Price			10,608 JPY/ t	×	0.2512 (γ)	
+)			↓(Maximum unit: 100 JPY) Rounded off to nearest 10			
Average Fuel Price			51,400 JPY/kl	(compared with the previous period: -900Y/kl)		

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

$$\begin{aligned}
 \text{Fuel Cost Adjusted Unit Price} &= (\text{Average Fuel Price} - \text{Basic Fuel Price}) \times \frac{\text{Basic Unit Price}}{1,000} \\
 &= (51,400 \text{ JPY/kl} - 44,200 \text{ JPY/kl}) \times \frac{0.222 \text{ JPY/kWh}}{1,000} \\
 &= 1.5984 \text{ JPY/kWh} \\
 &\quad \downarrow \text{(rounded off to the hundredth)} \\
 &= \boxed{1.60 \text{ JPY/kWh}}
 \end{aligned}$$

3. Electricity Rates Calculation for December 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	+	<p style="text-align: center;">Energy Charge</p> <p>18.89 JPY/kWh × 120 kWh</p> <p>25.19 JPY/kWh × 170 kWh</p> <p style="text-align: center;">+</p> <p style="text-align: center;">Fuel Cost Adjustment</p> <div style="border: 1px dashed black; padding: 5px; margin: 5px 0;"> <p>Fuel Cost Adjusted Unit Price × Consumption</p> <p style="border: 1px solid black; display: inline-block; padding: 2px;">1.60 JPY/kWh</p> × 290 kWh</div>	+	Renewable Energy Promotion Surcharge	+	Solar Surcharge	-	Account Transfer Discount
819.00 JPY				101 JPY		14 JPY		53 JPY
								= 7,894 JPY/kl

* tax included

END