

Calculation of Fuel Cost Adjusted Unit Price and Electricity Rates for June 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)	Dec. 2012-Feb. 2013 (for Mar. 2013)	Jan. - Mar. 2013 (for June 2013)			
			Average	Jan. 2013	Feb. 2013	Mar. 2013
Crude Oil (JPY/kl)	57,802	61,612	64,981	61,317	65,159	68,403
LNG (JPY/ t)	67,548	73,522	77,799	73,723	79,765	80,222
Coal (JPY/ t)	11,452	10,439	10,836	10,477	10,912	11,124
Average Fuel Price(JPY/kl)	44,200	47,400		(fixed)	(fixed)	(flash)

(basic fuel price)

	↓				
Crude Oil Price	64,981	JPY/kl	×	0.1970	(α)
LNG Price	77,799	JPY/ t	×	0.4435	(β)
Coal Price	10,836	JPY/ t	×	0.2512	(γ)
+)					
Average Fuel Price	50,000	JPY/kl			

(Maximum unit: 100 JPY) Rounded off to nearest 10
(compared with the previous period: +2,600Y/kl)

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

$$\begin{aligned}
 \text{Fuel Cost Adjusted Unit Price} &= \left(\frac{\text{Average Fuel Price}}{\text{Basic Fuel Price}} - 1 \right) \times \frac{\text{Basic Unit Price}}{1,000} \\
 &= \left(\frac{50,000 \text{ JPY/kl}}{44,200 \text{ JPY/kl}} - 1 \right) \times \frac{0.222 \text{ JPY/kWh}}{1,000} \\
 &= 1.2876 \text{ JPY/kWh} \\
 &\downarrow \text{(rounded off to the hundredth)} \\
 &= 1.29 \text{ JPY/kWh}
 \end{aligned}$$

3. Electricity Rates Calculation for June 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		Renewable Energy Promotion Surcharge		Solar Surcharge		Account Transfer Discount												
819.00 JPY	+	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">18.89 JPY/kWh × 120 kWh</td> <td style="width: 50%;"></td> </tr> <tr> <td>25.19 JPY/kWh × 170 kWh</td> <td></td> </tr> <tr> <td colspan="2" style="text-align: center;">+</td> </tr> <tr> <td colspan="2" style="text-align: center;">Fuel Cost Adjustment</td> </tr> <tr> <td style="border: 1px dashed black; padding: 2px;">Fuel Cost Adjusted Unit Price</td> <td style="border: 1px dashed black; padding: 2px;">Consumption</td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">1.29 JPY/kWh</td> <td style="text-align: center;">× 290 kWh</td> </tr> </table>	18.89 JPY/kWh × 120 kWh		25.19 JPY/kWh × 170 kWh		+		Fuel Cost Adjustment		Fuel Cost Adjusted Unit Price	Consumption	1.29 JPY/kWh	× 290 kWh	+	101 JPY	+	14 JPY	-	53 JPY
18.89 JPY/kWh × 120 kWh																				
25.19 JPY/kWh × 170 kWh																				
+																				
Fuel Cost Adjustment																				
Fuel Cost Adjusted Unit Price	Consumption																			
1.29 JPY/kWh	× 290 kWh																			
= 7,804 JPY/kl																				

* tax included