

Calculation of Fuel Cost Adjusted Unit Price and Electricity Rates for October 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)	Apr - Jun 2013 (for Aug 2013)	May - Jul 2013 (for October 2013)			
			Average	May 2013	Jun 2013	Jul 2013
Crude Oil (JPY/kl)	57,802	66,534	65,774	66,572	65,752	65,001
LNG (JPY/ t)	67,548	83,938	84,401	85,267	84,211	83,816
Coal (JPY/ t)	11,452	11,125	10,984	11,307	10,971	10,716
Average Fuel Price(JPY/kl)	44,200	53,100		(fixed)	(fixed)	(flash)
	(basic fuel price)			< Conversion Factor > Crude Oil Conversion Factor × Caloric Component Ratio		
Crude Oil Price		65,774 JPY/kl	×	0.1970	(α)	
LNG Price		84,401 JPY/ t	×	0.4435	(β)	
Coal Price		10,984 JPY/ t	×	0.2512	(γ)	
+)			↓(Maximum unit: 100 JPY) Rounded off to nearest 10			
Average Fuel Price		53,100 JPY/kl	(compared with the previous period: ±0Y/kl)			

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

$$\begin{aligned}
 \text{Fuel Cost Adjusted Unit Price} &= (\text{Average Fuel Price} - \text{Basic Fuel Price}) \times \frac{\text{Basic Unit Price}}{1,000} \\
 &= (53,100 \text{ JPY/kl} - 44,200 \text{ JPY/kl}) \times \frac{0.222 \text{ JPY/kWh}}{1,000} \\
 &= 1.9758 \text{ JPY/kWh} \\
 &\downarrow \text{(rounded off to the hundredth)} \\
 &= 1.98 \text{ JPY/kWh}
 \end{aligned}$$

3. Electricity Rates Calculation for October 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="padding: 2px;">18.89 JPY/kWh</td> <td style="padding: 2px;">×</td> <td style="padding: 2px;">120 kWh</td> <td style="padding: 2px;">+</td> <td style="padding: 2px;">25.19 JPY/kWh</td> <td style="padding: 2px;">×</td> <td style="padding: 2px;">170 kWh</td> </tr> <tr> <td colspan="7" style="text-align: center; padding: 2px;">+</td> </tr> <tr> <td colspan="7" style="text-align: center; padding: 2px;">Fuel Cost Adjustment</td> </tr> <tr> <td colspan="7" style="text-align: center; padding: 2px;">Fuel Cost Adjusted Unit Price × Consumption</td> </tr> <tr> <td colspan="7" style="text-align: center; padding: 2px;">1.98 JPY/kWh × 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							1.98 JPY/kWh × 290 kWh							101 JPY	14 JPY	- 53 JPY
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* tax included

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