

Calculation of Fuel Cost Adjusted Unit Price and Electricity Rates for November 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) | May - Jul 2013 (for Oct 2013) | Jun - Aug 2013 (for November 2013) | | | |
|----------------------------|-----------------------------------|----------------------------------|------------------------------------|----------|----------|----------|
| | | | Average | Jun 2013 | Jul 2013 | Aug 2013 |
| Crude Oil (JPY/kl) | 57,802 | 65,774 | 65,706 | 65,752 | 65,018 | 66,309 |
| LNG (JPY/ t) | 67,548 | 84,401 | 82,406 | 84,211 | 83,816 | 79,361 |
| Coal (JPY/ t) | 11,452 | 10,984 | 10,702 | 10,971 | 10,719 | 10,445 |
| Average Fuel Price(JPY/kl) | 44,200 | 53,100 | | (fixed) | (fixed) | (flash) |

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

| | | | | |
|---------------------------|----------------------|---|--|-----|
| Crude Oil Price | 65,706 JPY/kl | × | 0.1970 | (α) |
| LNG Price | 82,406 JPY/ t | × | 0.4435 | (β) |
| Coal Price | 10,702 JPY/ t | × | 0.2512 | (γ) |
| +) | | | | |
| | | | ↓(Maximum unit: 100 JPY) Rounded off to nearest 10 | |
| Average Fuel Price | 52,200 JPY/kl | (compared with the previous period: -900Y/kl) | | |

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

$$\begin{aligned}
 \text{Fuel Cost Adjusted Unit Price} &= \left(\frac{\text{Average Fuel Price}}{\text{Basic Fuel Price}} - 1 \right) \times \frac{\text{Basic Unit Price}}{1,000} \\
 &= \left(\frac{52,200 \text{ JPY/kl}}{44,200 \text{ JPY/kl}} - 1 \right) \times \frac{0.222 \text{ JPY/kWh}}{1,000} \\
 &= 1.7760 \text{ JPY/kWh} \\
 &\quad \downarrow \text{(rounded off to the hundredth)} \\
 &= \boxed{1.78 \text{ JPY/kWh}}
 \end{aligned}$$

3. Electricity Rates Calculation for November 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 819.00 JPY | + | <p style="text-align: center;">Energy Charge</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">18.89 JPY/kWh</td> <td style="width: 5%; text-align: center;">×</td> <td style="width: 45%;">120 kWh</td> </tr> <tr> <td>25.19 JPY/kWh</td> <td style="text-align: center;">×</td> <td>170 kWh</td> </tr> <tr> <td colspan="3" style="text-align: center;">+</td> </tr> <tr> <td colspan="3" style="text-align: center;">----- Fuel Cost Adjustment -----</td> </tr> <tr> <td style="border: 1px dashed black; padding: 2px;">Fuel Cost Adjusted Unit Price 1.78 JPY/kWh</td> <td style="text-align: center;">×</td> <td>Consumption 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 1.78 JPY/kWh | × | Consumption 290 kWh | + | Renewable Energy Promotion Surcharge 101 JPY | + | Solar Surcharge 14 JPY | - | Account Transfer Discount 53 JPY |
| 18.89 JPY/kWh | × | 120 kWh | | | | | | | | | | | | | | | | | | | | | |
| 25.19 JPY/kWh | × | 170 kWh | | | | | | | | | | | | | | | | | | | | | |
| + | | | | | | | | | | | | | | | | | | | | | | | |
| ----- Fuel Cost Adjustment ----- | | | | | | | | | | | | | | | | | | | | | | | |
| Fuel Cost Adjusted Unit Price 1.78 JPY/kWh | × | Consumption 290 kWh | | | | | | | | | | | | | | | | | | | | | |
| = 7,946 JPY/kl | | | | | | | | | | | | | | | | | | | | | | | |

* tax included