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## Indianapolis Power & Light

For this analysis, we model potential outage scenarios for a customer operating his/her own generating equipment. We assume the customer's equipment has a rated capacity of 2 MW and operates at a power factor of 100%, therefore demand and energy charges are multiplied by a factor of .951 per the tariff.<sup>1</sup> For customers taking backup, maintenance, or supplementary power from the Company and also taking service under one of the large commercial or industrial rate schedules, then the applicable rate schedule is used for billing. If the customer's generating equipment qualifies as a Cogeneration and Small Power Production facility, the customer would take service under Riders 10 (Backup Power Service), 11 (Maintenance Power Service), and 12 (Supplementary Power Service).<sup>2</sup> According to a response to the IURC, a primary voltage customer only taking backup or maintenance service will be billed under rates PL (Primary Service Large) or HL (High Load Factor).<sup>3</sup> Our customer will take service under rate PL, which has a minimum contract of 500 kW. According to the tariff, the customer is billed as a full-requirements customer of the same rate schedule.

### Summary

No Outage: \$20,889.84

Scheduled 16 Hours Off-peak: \$35,663.66

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Scheduled 8 Hours On-peak, 8 Hours Off-peak: \$35,663.66

Scheduled 32 Hours On-peak: \$36,590.93

Unscheduled, 8 Hours On-peak, 8 Hours Off-peak: \$35,663.66

### No Outage

In a no outage month, the minimum billing demand would be 60% of the highest demand from the previous 11 months. As it is reasonable to assume that there was at least one complete outage in the past 11 months, we assume the billing demand is 60% of the full standby capacity of 2000 kW. This amount of demand is then adjusted for power factor (we assume a power factor of 100%).

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<sup>1</sup> This assumption simplifies the analysis so that demand and other charges measured in kVA will be assumed to apply to the kW rating of our hypothetical customer.

<sup>2</sup> Rider 8- Off-Peak Service is also available for customers willing to restrict demand during on-peak hours.

<sup>3</sup> <http://in.gov/iurc/files/IPL%20Response%20to%20IURC%20Staff%20Request%20GAO%202017-3.pdf>

- Customer Charge: \$120.00/month
- Demand Charge:  $\$18.20/\text{kW} * 60\% * 2,000 \text{ kW} * .951 = \$20,769.84$

Total monthly charges would be \$20,889.84

### Scheduled 16 Hours Off-peak

In this outage scenario, the customer schedules a maintenance outage lasting 16 hours during off-peak times. There is no on-peak or off-peak provision in Rate PL.

- Customer Charge: \$120.00/month
- Demand Charge:  $\$18.20/\text{kW} * 2,000 \text{ kW} * .951 = \$34,616.40$
- Energy Charge:  $\$0.03047/\text{kWh} * 32,000 \text{ kWh} * .951 = \$927.26$

Total monthly charges would be \$35,663.66

### Scheduled 16 Hours On-peak

In this outage scenario, the customer schedules a maintenance outage lasting 16 hours during on-peak times. There is no on-peak or off-peak provision in Rate PL.

- Customer Charge: \$120.00/month
- Demand Charge:  $\$18.20/\text{kW} * 2,000 \text{ kW} * .951 = \$34,616.40$
- Energy Charge:  $\$0.03047/\text{kWh} * 32,000 \text{ kWh} * .951 = \$927.26$

Total monthly charges would be \$35,663.66

### Scheduled 8 Hours On-peak, 8 Hours Off-peak

In this outage scenario, the customer schedules a maintenance outage lasting 16 hours during, 8 hours during off-peak times and 8 hours during on-peak times. There is no on-peak or off-peak provision in Rate PL.

- Customer Charge: \$120.00/month
- Demand Charge:  $\$18.20/\text{kW} * 2,000 \text{ kW} * .951 = \$34,616.40$
- Energy Charge:  $\$0.03047/\text{kWh} * 32,000 \text{ kWh} * .951 = \$927.26$

Total monthly charges would be \$35,663.66

### Scheduled 32 hours On-peak

This scenario is identical to the scenario above with the exception of energy used.

- Customer Charge: \$120.00/month
- Demand Charge:  $\$18.20/\text{kW} * 2,000 \text{ kW} * .951 = \$34,616.40$
- Energy Charge:  $\$0.03047/\text{kWh} * 64,000 \text{ kWh} * .951 = \$1854.53$

Total monthly charges would be \$36,590.93

### Unscheduled 8 Hours On-peak, 8 Hours Off-peak

There is no provision for scheduled or unscheduled service.

- Customer Charge: \$120.00/month
- Demand Charge:  $\$18.20/\text{kW} * 2,000 \text{ kW} * .951 = \$34,616.40$
- Energy Charge:  $\$0.03047/\text{kWh} * 32,000 \text{ kWh} * .951 = \$927.26$

Total monthly charges would be \$35,663.66