

# See how much you can save with power factor correction!

Many utility companies charge a penalty for poor power factor.

Below is an actual utility bill for a customer, showing the penalty charges for just one month. Installing a power quality solution from Schneider Electric is an easy, cost-effective way to start saving on utility bills today.

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**Amount** \$48,730.63  
**Date** 08/24/2015  
**Account No.** 123-45-678

  

**CUSTOMER INFORMATION**

Acct Name **ABC Company**  
 Cust Name **ABC Company**  
 Svc Addr 1234 Place  
 Bill Date 07/13/2015 00:00 - 08/12/2015 23:59

**ACCOUNT INFORMATION**

Previous Balance \$0.00  
 Monthly Service Charge \$523.71  
 Facilities Charge \$1,818.27  
 Demand (kW) Charge \$2,506.56  
 On-Peak Energy (kWh) Charge \$7,261.37  
 Shoulder-Peak Energy (kWh) Charge \$7,610.09  
 Off-Peak Energy (kWh) Charge \$8,554.26  
 Delivery (kWh) Charge \$10,914.66  
**Power Factor Penalty Amount \$5,637.58**  
 Aggregation Discount \$119.50 CR  
 City Tax \$1,207.09  
 County Tax \$312.95  
 State Tax \$2,503.59  
 This Month's Charges \$48,730.63  
**TOTAL AMOUNT DUE \$48,730.63**

  

**ELECTRICITY YOU USED**

Total kWh **398,321**  
 Power Factor **73.70 %**  
 Load Factor **78.60 %**  
 Maximum Demand **681**  
 16 Month Peak Demand **681.0**  
 On-peak kWh Usage **84,044**  
 Shld-peak kWh Usage **116,719**  
 Off-peak kWh Usage **197,558**  
 On-peak kW **672**  
 Shld-peak kW **670**  
 Off-peak kW **681**

**COMPARING YOUR MONTHLY USAGE**

Desc	Max kW Date	Max kW Time	kWh Percent
On-peak	07/17/2015	14:00:00	21.1
Shld-peak	07/17/2015	21:00:00	29.3
Off-peak	07/20/2015	08:30:00	49.6

  

**NOTES**

- The Energy Charge includes a Fuel and Purchased Power Adjustment Factor of \$0.0294 per kWh and an Environmental Programs Cost Adjustment Factor of \$0.0055 per kWh.
- Demand (kW) is the rate of electricity being used by a customer at a given time and is measured by recording the average load over a 30-minute period. The highest registered demand value during the On-Peak period is the billed demand.

Payment **\$48,730.63**  
 Date **08/24/2015**

  

**Account No.** 123-45-678  
**Billing Date** 08/14/2015

**Total Amount** \$48,730.63



Potential savings from installing a power factor correction solution from Schneider Electric:

**Power Factor Penalty Amount**  
 $\$5,637.58 \times 12 =$   
**\$67,650.96/year**

Plus, with improved energy efficiency, reliability, and capacity the savings will be even more.

**Start saving today!**

## Not all power bills make it so easy to spot power factor penalties.

Your utility bill may not show a power factor penalty, but that doesn't mean you aren't still paying extra. Below is a utility bill in which a simple calculation shows the extra, hidden charges for poor power factor. While the distribution charges are measured in kVA, the transmission network charge is per kW, or true power. The difference between these causes additional charges.

# Electricity Bill

<b>Account Number</b> <b>123-45-678</b> <small>To be used for payments</small>	<b>Premise Number</b> 12345678ABC	<b>Statement Date</b> <b>Apr 22 2013</b>	<b>Amount Due</b> <b>\$49,903.87</b>
		<b>Due Date</b> <b>May 12 2013</b>	

Meter Number  
**12345678**

Company name  
Account payable  
1234 Place. XX

Service Location: XXX XXX XX, XXXXXXX

**Your Electricity Charges**

<b>Electricity:</b>	
<small>****Electricity supplied by XYZ energy through Standard Supply Service, Billing Inquiries: (XXX) XXX-XXXX</small>	
377,187.840 kWh at \$0.03022 per kWh	11,398.62
Global Adjustment	
279,849.043 kWh at \$0.04374 per kWh	12,240.60
Global Adjustment	
97,338.797 kWh at \$0.05643 per kWh	5,492.83
<b>Delivery</b>	
Customer Charge	46.10
Distribution Charge	6,924.11
<small>1,237.420 kVA at \$5.5956 per kVA per 30 Days</small>	
Transmission Network Charge	
<small>930.521 kW at \$2.4351 per kW per 30 Days</small>	
	2,265.91
<small>Transmission Connection Charge</small>	
<small>930.521 kW at \$1.763 per kW per 30 Days</small>	
	1,640.51
<small>Transformer Allowance</small>	
<small>1,237.420 kVA at \$-0.62 per kVA per 30 Days</small>	
	767.20 CR
<b>Regulatory Charges</b>	
<small>Standard Supply Service Administrative Charge</small>	
	0.26
<small>at \$0.25 per 30 Days</small>	
Wholesale Market Service Charge	2,376.28
<small>377,187.840 kWh at \$0.0063 per kWh</small>	
<b>Debt Retirement Charge</b>	
<small>363,528.000 kWhs at \$0.007 per kWh</small>	
	2,544.70
<b>Your Total Electricity Charges</b>	<b>44,162.72</b>

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<b>H.S.T. (H.S.T. Registration 896718327RT0001)</b>	5,741.15
<b>Your Previous Charges</b>	
Amount of last bill	53,450.11
Payment Received Apr 05 2013	53,450.11 CR
- Thank You	
<b>Balance Forward</b>	<b>0.00</b>
<b>Total Amount Due by May 12 2013</b>	<b>\$49,903.87</b>

**Your electricity usage**

Meter Number	Meter Reading Period	Number of Days	Read Type	Unit Self-Contained	Current Reading	Previous Reading	Billing Mult.	kWh Used	Loss Factor Adjustment	Adjusted kWh Used
30004487	MAR 08 2013 TO APR 08 2013	31	Act.	1	7740	7587	2400	367200	1.0272	377187.840

Demand kW	Demand kVA	Metering Adj.	Adjusted kW	Adjusted kVA
909.600	1209.600	0.99	930.520	1237.420



Hidden penalty charges:  
Distribution charge 1,237kVA/  
Transmission Network Charge 930kW  
= 75% power factor

Power factor penalties:  
kVA-kW = 306.899  
Rate charged = \$5.5956  
**Charges: \$1,717.28**

Implementing power factor correction solutions to boost the pf would eliminate the difference between the kVA and kW, bringing potential savings to \$1717/month.  
**\$1,717 x 12 = \$20,604/year**

Email [powersolutions@schneider-electric.com](mailto:powersolutions@schneider-electric.com) for a utility bill audit and to **learn what you could save year-over-year with Schneider Electric.**

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