

Power Factor Correction (PCF)

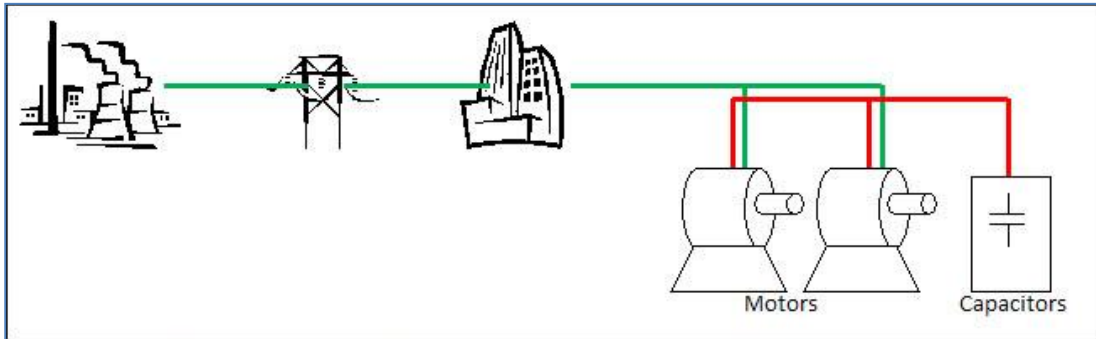


Figure 5 Simplified electrical generation, transmission, distribution, and load diagram with capacitors installed to improve power factor

Benefits to Hartland Electric's (PFC)

- Aligned with top industrial manufacturers
- Helping achieve sustainability and competitive advantages
- Full scale engineering services
- Greater reliability
- Operating cost efficiencies
- Effective use of capital
- Enhanced safety and risk mitigation



What is Power Factor?

Most loads in modern electrical systems are inductive. Examples include motors, transformers, gaseous tube lighting ballasts and induction furnaces. Inductive loads need a magnetic field to operate.

Should I be concerned about low power factor?

Yes you should be. Low power factor means you're not fully utilizing the electrical power you're paying for.

How much can I save by installing power capacitors?

In most cases payback is under 12 months. Power capacitors provide many benefits reduced electric utility bills, increased system capacity, improved voltage, and reduced losses

Commercial > 50 kW
Aug 10, 2007 - Sep 11, 2007

Readings:	Electric	12503	Water	2560
		12228		2537
		32		32
Number of Days	120		Actual	1
Supplier	Actual		Actual	23 cu.m.
Usage Type	33,000 kWh			
Actual Usage	1,0410			
Adjustment Factor	34,383 kWh			
Adjusted Usage				
Peak Demand: Read	Billed	141		
Small Pk kW	1179			

Your Electricity
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Power Factor 79.1