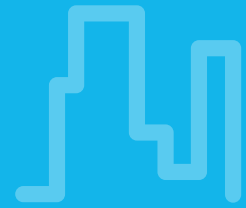




Paper Mill Avoids Increasing Electrical Infrastructure



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A paper mill customer wanted to buy a new 250KVA winder but found out that there was not enough current capacity available in their switchboards to support the new winder. A power system study revealed that power factor correction would reduce the current through his switchboards giving the capacity needed for the new winder.

Using a Square D® PowerLogic® System, displacement and true power factor were monitored and logged. The data logs confirmed that both power factors (true and displacement) were poor and similar to each other, meaning that the power factor could be improved using power factor correction capacitors (PFC). Improvement of the power factor would reduce the total current by 50% for the two existing switchboards without changing the loads. The power factor correction would free enough capacity in the switchboards to add the new 250 KVA winder as needed.

The power factor correction equipment cost \$46K, realizing a saving of \$79K over the alternative of adding new service equipment to support the addition of the new winder.

PowerLogic®

Schneider Electric - North American Operating Division
295 Tech Park Drive
LaVergne, TN 37086
Tel: 866-466-7627 Toll Free
PowerLogic.com

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