

Client

**DeForest**

Wisconsin  
USA

Solution



Application: Well Pump

The following charts reflect the energy savings resulting from the installation of the custom sized KVAR Energy Controller (KVAR EC®) at the Village of DeForest, WI Well Pump #3 (100HP). The installation of the KVAR EC® was installed on December 7, 2011 in accordance with article 460 of the National Electrical Code. The measurement and verification was conducted through the use of the Alliant Energy Cost and Usage Statement for kWh meter number 708027780. Well Pump #3 is the only load present on this meter. January 11<sup>th</sup> data is shown against January 12<sup>th</sup> data.

The KVAR EC® creates savings by storing reactive power used by inductive loads to create electromagnetic fields needed in motor's windings. By storing and supplying this power when needed waste reactive power is no longer required for operation.

January 2011 Stats  
(Before KVAR Install)

231.03 Average kWh  
usage / day

162.74 Thousand  
gallons / day

1.419 kWh used per thousand  
gallons pumped

**Total daily cost:**  
**\$ 25.62**

January 2012 Stats  
(After KVAR Install)

212.12 Average kWh  
usage/day

168.54 Thousand  
gallons / day

1.258 kWh used per thousand  
gallons pumped

**Total daily cost:**  
**\$ 23.52**

Savings

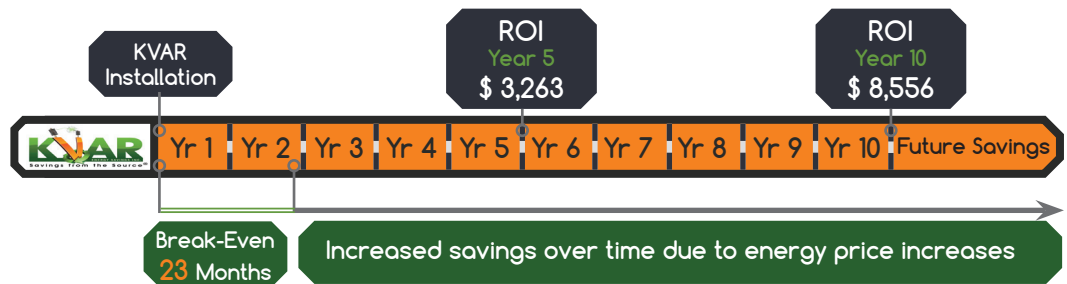
**Total  
Investment**  
**\$ 1950**

**Monthly Savings**  
**\$ 88.21**  
**586.21 kWh**

**Est. Annual  
Savings**  
**\$ 1058.52**

ROI at periods 5 and 10 exclude the total cost of investment shown in the break even period.

ROI Timeline



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