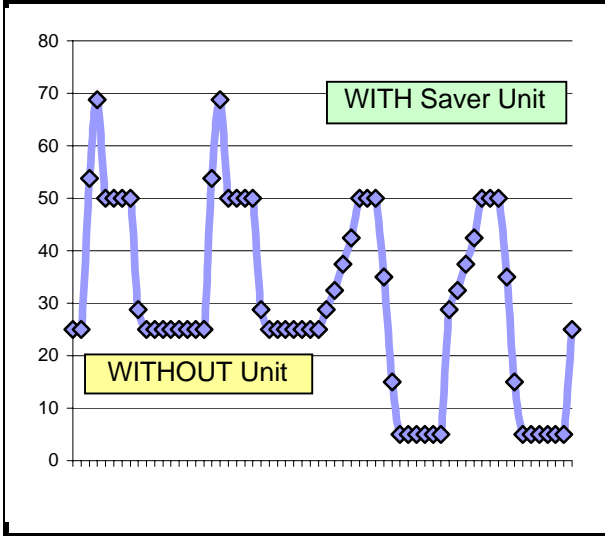


Technical Synopsis of Product Tests and Installation

TEXAS TECH PETROLEUM TEST

Type of Unit	Type of Motor	Conclusion
ITS 3phase Unit = PM3	Pump Jacks	11% Direct Energy Savings
Report Title	Date	Author
Report of Southwest Petroleum Short Course	Apr-97	VJ Drew, JDI Associates



a representation of energy saving

Commentary

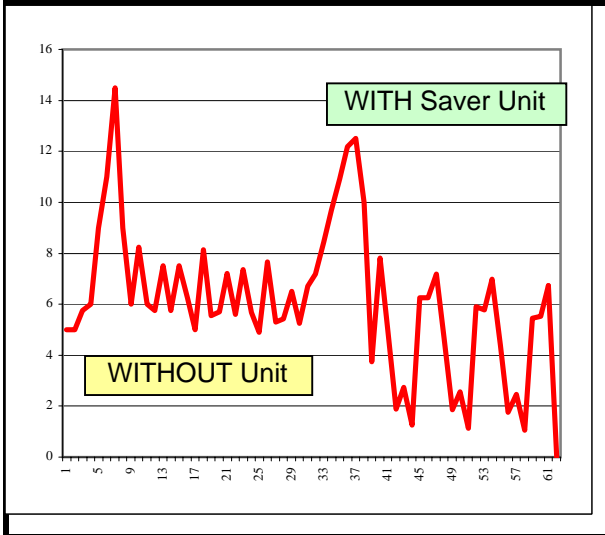
At the annual information and technology sharing event, hosted by Texas Tech University and the Society of Petroleum Engineers, a paper was presented by Xencom Communications [former EET Technology Partner]. It showed the results of tests with three EET Power Manager units (Model - PM385) on pump jacks owned by Chevron. The conclusions showed 11.25% average energy savings. These results were met with much interest by the attendees.

Graph Comments

The graph shows the operation of the pump jack motor with and without the ITS PM3 Saver unit on it. Notice the two larger peaks during start. More importantly, notice the difference in the two periods of rest.

CINTAS COMPRESSOR INSTALLATION RESULTS

Type of Unit	Type of Motor	Conclusion
ITS 3phase Unit = PM3	Air Compressor	24% kWh reduction
Report Title	Date	Author
Letter from Detroit Edison's Engineer	Sep-92	Julian Ninichuk, PE



a representation of energy saving

Commentary

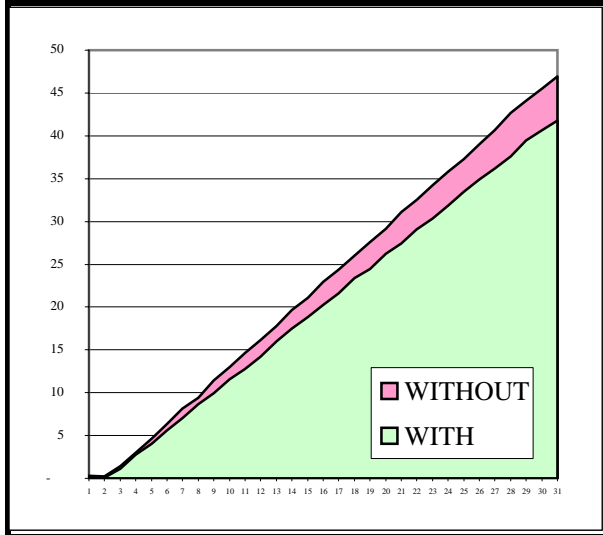
An ITS PM3 units was installed on an air compressor at the Cintas factory in Westland, Michigan. Cintas requested from their power company, Detroit Edison, a full report on the effectiveness of the device. An engineer from the company came and analyzed the 25hp unit with and without the device. He concluded that based on his observation, the unit could save over \$1000 per year in KW costs.

Graph Comments

This representation shows the air compressor's usage during peaks and lesser periods with the ITS unit off and on. Notice that the peak is lower and the typical

OWEN ILLINOIS ESCALATOR TEST

Type of Unit	Type of Motor	Conclusion
ITS 1phase Unit = PM1	Escalator	10% Savings over day
Report Title	Date	Author
OI Escalator Test	Jul-95	



a representation of energy saving

Commentary

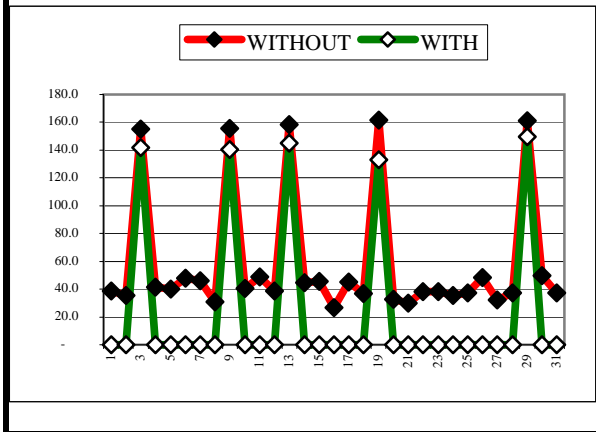
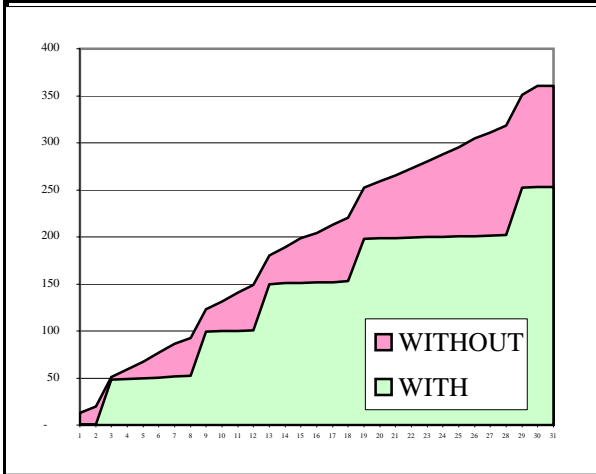
Working with an ITS PM dealer, a test was conducted on a Owens Illinois escalator. These machines use small 5hp motors but have a tough duty cycle. In this test, two similar units were run in a controlled environment with typical major and minor loads to reflect various riders and use.

Graph Comments

This chart shows the cumulative KW usage for 2 escalators over the day. Notice that while not drastic, cumulatively the total KW used is less with the ITS unit on the unit.

APRO OIL PUMP MOTOR

Type of Unit	Type of Motor	Conclusion
ITS 3phase Unit = PM3	Red Oil 150hp Pump	\$165 per month saved
Report Title	Date	Author
Performance Report of Red Oil Pump	July, 2004	Wesworth Electric



a representation of energy saving

Commentary

Summary: The 150hps Mettre Hydraulic oil circulating pump "Red Oil Pump" is used for the distribution of hydraulic oil at various service areas throughout the aeronautical service plant.

Pump Properties: The Red Oil pump has a named plate rating of 156amps running at 208volts. The Red Oil pump was installed on July 1992 and is regularly maintained.

Duty Cycle: Since the Red Oil pump only operates during a testing condition on the service floor it is rarely used at fully capacity. Prior to any modifications the pump is turned on at 6:00am and is shut off at 5:00pm. On average, during a 24 hour period, the pump is used 4 times.

Conclusions: Because of the new soft start feature, the units was able to be safely turned off until needed, dramatically reducing its energy usage. Further , since the initial start no longer occurred each morning, overall demand reduced. Lastly since the system was intergraded with a controller that offered real-time startup, service techs on the plant floor could begin utilizing the Red Oil pump nearly instantly.

Graph Comments

The top graph show cumulative energy use with and without unit. The bottom graph shows the consumption during a given period. Notice that while the spikes are the same when the machine needs power, when the unit is not needed the motor consumes nothing.

