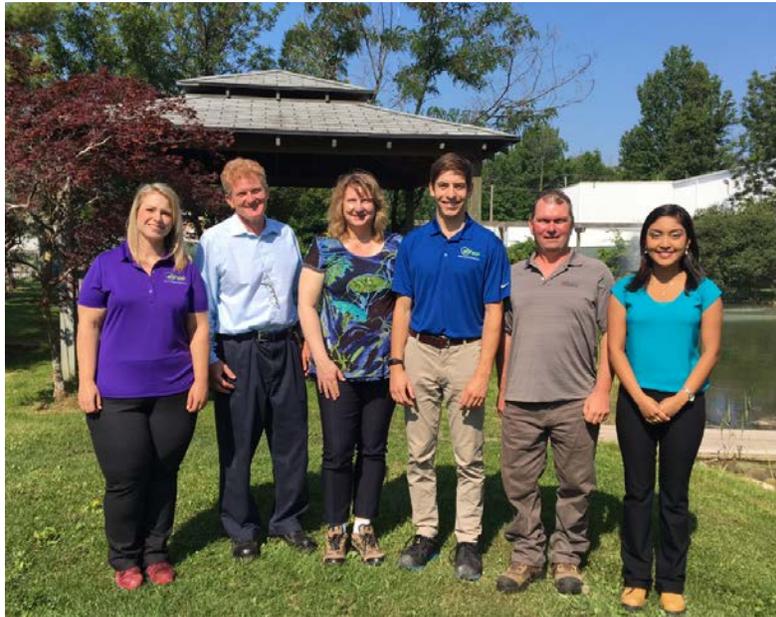

DUREZ CANADA: ENERGY MANAGEMENT CASE STUDY



Durez Canada Energy Team

1) Why do you put so much emphasis on energy management?

- Durez Canada focuses on Energy Management primarily due to the rising cost of electricity which has doubled in the last decade. We have active involvement in energy management to ensure sustainability and profitability in our manufacturing operations.

2) Tell us a bit about how you manage energy at Durez (Strategies, Tactics, Processes, etc.?)

- A multi-functional team from areas of management, finance, maintenance, engineering and operations drives the energy management at our site. We are involved in several energy projects and initiatives and the team meets on a quarterly basis to ensure progress on high priority items.
- Our site has also invested in an EMIS Database (Energy Management Information System) where we monitor the usage of all utilities including, electricity, air, steam, and natural gas. Alarm limits have been set on the HMIs to indicate whether there is an air or steam leak. Natural gas and electrical usage is monitored on a monthly basis. All data is also normalized relative to the production lbs produced which makes the analysis more effective. Logic has also been implemented in two main production units to automatically shutdown various pieces of equipment when not in use.
- The site also participates in Demand Response and Peak Shaving Activities in an attempt to reduce the global adjustment costs.

How did you determine that becoming class A was a good idea for your company?

Durez Canada made the decision to become a Class A customer when the demand eligibility decreased from 1MWH to 500kWH in July 2017. Due to the required demand, both manufacturing sites at Durez now qualified. Since Global Adjustment makes up such a significant portion of our electrical bill (~60%), we knew we had to pursue the opportunity.

What are you actually doing to hit the 5 peaks? How much are you saving?

We have implemented a Peak Shaving Program in May 2018. We receive alerts of oncoming electrical peaks. The energy team and operations work together to decide which processes will be shut down. An analysis following the event is also done to assess the site's performance during the peak.

It was determined that there is potentially \$300K in savings over Class B, if the site successfully curtails during the five highest peaks for the year.

Do you have any suggestions for government as to how ICI could be improved to make manufacturers more competitive?

There can be a similar program to demand response where there are system aggregators who dictate which/how many customers shutdown during peaks. Savings would come from simply signing up for this service, and overall this would reduce the number of times every customer has to curtail.