

Catania Oils

Ayer, Massachusetts



Catania Oils Product Line

About Catania Oils

Catania Oils is a leading provider of conventional, non-GMO Project verified and organic oils for the ingredients, foodservice, and retail markets. The company is driven by their steadfast commitment to excellence and continuous improvement processes that deliver the highest quality of vegetable, olive, and blended oils to the industry and its customers around the world. The company operates a high-tech manufacturing facility, a large distribution center, a quality assurance (QA) laboratory, a railroad and bulk processing area as well as multiple automatic production lines. In addition, Catania Oils also operates a fleet of tank and box trucks, allowing them to service customers throughout the United States.

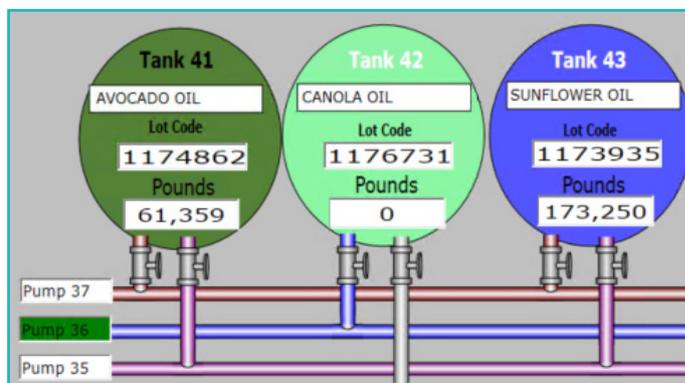
Project Summary

Catania Oils knew they needed help in leveraging their data. Specifically, they needed to zero in on the informational insight that this data could provide for plantwide visualization into production. In particular, the company wanted:

- To know the status of their lines - which lines are up and which lines are down.
- To know the quantity of resources being used - specifically to know the tank levels to be able to order raw materials based on the availability of storage space.
- To identify potential efficiency gains in their manufacturing processes so wanted to be able to investigate overall equipment efficiency (OEE) and to measure KPI performance.



Operations Dashboard



Tank Level Overview

- To have the capability of batch management and material handling.
- To track the quantity of additives for regulatory purposes.
- To know the quantity of manufactured products.

They therefore set out to look for an automation software that could capture the data and display it in a meaningful way for them to make data-driven decisions.

Catania Oils was introduced to system integrator [Data Acuity](#), and as a longtime partner of ICONICS, Data Acuity chose ICONICS for the system automation software. Located in Hampton, New Hampshire, Data Acuity is an automation software company that focuses on the manufacturing, energy, and service delivery efficiency for Automated Systems. Their consulting services, the technologies they represent, and their engineering design efforts are all centered on focusing their clients' resources on areas that will bring the greatest efficiency gains.

ICONICS Products Deployed

The following ICONICS products were deployed:

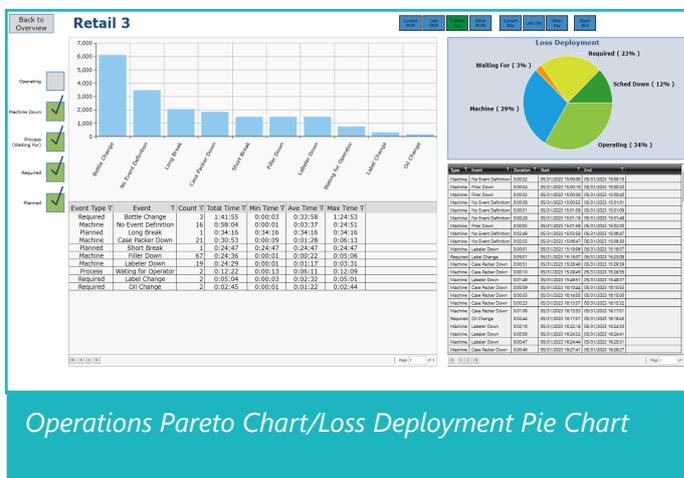
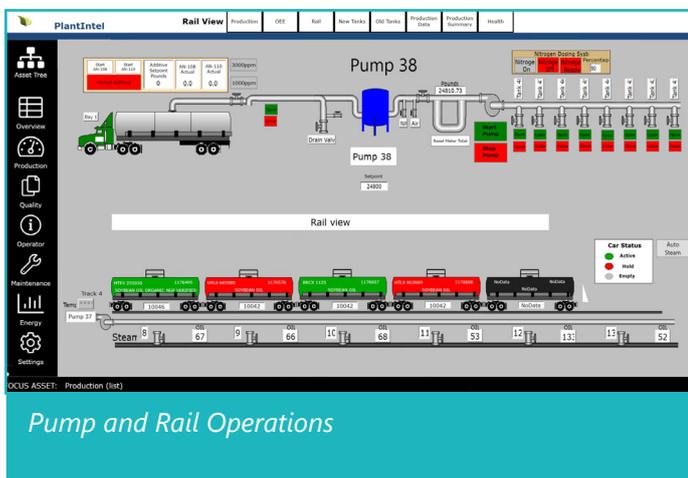
- **GENESIS64™** web-based real-time HMI/SCADA suite with **WebHMI™**
- **ICONICS Hyper Historian™** high-speed, reliable, robust plant data historian

By using ICONICS solutions, Catania Oils saw immediate value.

Realized Real-Time Benefits

ICONICS software allowed Catania Oils to monitor overall equipment effectiveness (OEE) and loss deployment to improve production efficiency. The key was to focus the right resources on the right problems and to use OEE for gaining insight. As a metric, OEE provided a clear understanding of the difference between the quantity of sellable product that could be made versus the actual quantity of product that was made. The primary insight gained from this metric was a full understanding of which resources needed to be assigned to which priority problems. Using ICONICS, Catania Oils could measure production efficiency by breaking OEE into three separate buckets and measuring these aspects: availability, performance, and quality.

Additionally, the company was also able to make gains in efficiency by monitoring loss of deployment. Using ICONICS software, Catania Oils could determine how much product was actually made; what was the loss of efficiency that could be attributed to the fault of a machine or an asset; and what was the loss of efficiency that could be attributed to the process around the asset. By monitoring OEE and loss deployment, Catania Oils gained even greater insight into the potential loss of efficiency. The company was able to focus on the entire process as opposed to focusing on a single machine fault or quality defect. Catania Oils could therefore capitalize on even greater efficiency gains.



Conclusion

Catania Oils will continue to use ICONICS' software to optimize their operations and are now using the software to look into predictive maintenance. They are correlating their production information with the CMMS system in order to schedule maintenance actions predictively as opposed to scheduling maintenance actions based on a calendar. The company plans to continue to grow their expertise and experience in using ICONICS' software for continuous improvement into their operations.

“We collect data regularly through ICONICS. And so, we get data from every line, from every product, and from every shift, and that data is accumulated in the database and a report comes out every day for us to be able to determine how each one of those lines is running.”

Dan Bracket,
Vice President of Operations

