

Case Study

ENOROCX

Client Toyota Tsusho Nordic | **Location** Finland

Industry Retail Energy



TOYOTA TSUSHO NORDIC REALIZES 17% ENERGY SAVINGS WITH ENORO ENERGY EFFICIENCY MANAGEMENT SOLUTION.

TTN is a part of Toyota Tsusho Corporation (TTC), which exports products to 120 different countries and sells vehicles and spare parts in 85 countries. Founded in 1948, Toyota Tsusho Corporation has more than fifty thousand employees and their 2013-2014 turnover was 57.9 billion euros. TTC has a strong retail presence in Europe with 43 stores in England, Russia, and other countries. More at <http://www.ttnordic.fi>

Project Background & Requirements

Toyota Tsusho Nordic Oy (TTN) wanted a better understanding of their energy consumption in order to highlight potential energy savings and identify ways to improve their overall energy efficiency. They targeted a 5% annual reduction in energy usage to provide cost savings and promote a green company brand. TTN chose their store in Kaivoksela, a northern suburb of Helsinki, Finland, as the pilot site for the project. The store includes automotive sales, repair and repainting facilities. Toyota Tsusho Nordic wanted to improve their energy efficiency to further develop a modern green brand.

Solution

EnoroCX team provided Toyota Tsusho Nordic a SaaS-based Energy Efficiency Management (EEM) solution offering automated detailed consumption reports to identify energy efficiency potential. The delivered solution has two parts:

- An Energy Efficiency Management service (meter data collection, analysis, and reporting, all as services) - provided by Hansen EnoroCX
- A Sub-metering solution (meters, communication, installation) for detailed energy usage metering inside reseller stores - provided by the Finnish firm Utu Powel Oy

EnoroCX's Energy Efficiency Management solution imports consumption data from TTN's meters and provides TTN with detailed reports on energy consumption, all performed automatically. TTN uses these reports to identify potential energy savings. The EEM solution is based on Hansen's industry-proven GenerisCX meter data management platform which today manages data collection, analysis and distribution for 15 million metering points in Europe.

Outcome

EnoroCX's EEM solution provided Toyota Tsusho Nordic (TTN) with detailed information that was key to changing their consumption behavior and optimizing electricity usage in the Kaivoksela facility in Finland.

With the data insights provided by the Enoro EEM solution, TTN has identified several energy saving targets and implemented a range of energy saving actions like optimizing ventilation outside of business hours and installing motion sensors for intelligent lighting control. The solution started gathering results in April 2012 and TTN started to implement full scale energy efficiency actions in 2013.

After two years of EEM usage (2013-2014) TTN has achieved:

- **17%** lower energy consumption
- **516 MWh** less energy used over two years
- **41 000 €** savings over two years
- **9%** savings rate year-on-year

"With the help of the Enoro Energy Efficiency Management solution we have now reached 17% savings in our total energy consumption, exceeding our targets by a wide margin. We have identified and implemented several energy saving actions in our Kaivoksela store and we expect even more savings in the future."

Veli-Pekka Heikkinen, Toyota Tsusho Nordic Oy