

Toray Industries, Inc.: Strengthening production infrastructure at large tow carbon fiber manufacturing plants

Basics Information

Address

Toray Industries, Inc.

Employees

48,842

(As of March 31, 2022)

(Including domestic and overseas consolidated subsidiaries)

Year of the establishment

1926

Business

Manufacturing, processing and sales of the following products, among others:

Fibers and Textiles

Performance Chemicals

Carbon Fiber Composite Materials

Environment and Engineering

Life Science

Others

Corporate website

<https://www.toray.com/global/>

Current issues about supply chain resilience

The Mexican factory is highly cost competitive, but there are the following issues in the infrastructure development within the factory.

- (1) Confidential information may be leaked.
- (2) A trouble occurs in aged PLC, causing the production stop.
- (3) Failure to prevent equipment troubles through preventive maintenance.
- (4) There is no server system for storing large-volume process data of manufacturing equipment.

Details of demonstration

1. Strengthening the security of the factory information system
2. Equipment trouble prevention
 - (1) Renewal of aging PLC
 - (2) Introduction of online equipment diagnosis
3. Production process stabilization introduction of large-capacity process data storage server system SCADA

Expected outcome

1. Prevent leakage of confidential information and maintain business superiority.
2. Decrease in unplanned stoppages due to PLC renewal and preventive maintenance
3. Promote process improvement with high-capacity process data.