



## BDI Amsterdam Process Control Technology

<b>Scope of Project</b>	Process control technology for biodiesel facility in Amsterdam
<b>Particularities</b>	Interfaces to subsystems including tank farms, boilers, water treatment, etc.
<b>Plant Location</b>	Amsterdam / The Netherlands
<b>Client</b>	BDI - BioEnergy International AG

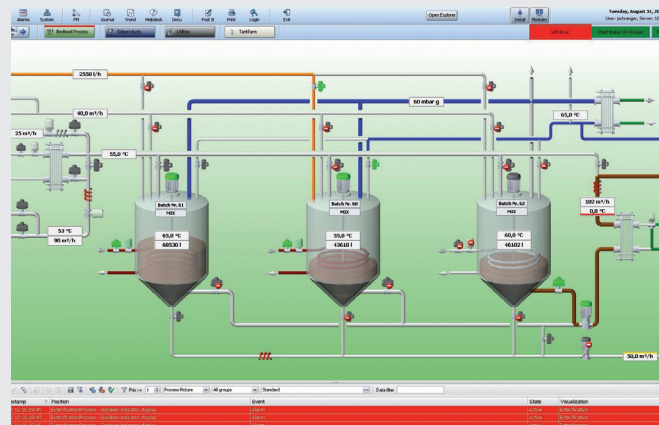
### KEY FACTS

<b>aX Software</b>	automationX 11 aXbatch-Units
<b>aX Hardware</b>	aXlink
<b>aX Server</b>	Redundant server system
<b>aX Client</b>	2 multi-monitor operator stations
<b>I/O's</b>	1,300 physical
<b>Field</b>	25 frequency converters 45 PA devices
<b>Interfaces</b>	Interfaces to subsystems including tank farms, boilers, water treatment, etc
<b>Process display</b>	1 functional overview 26 state-of-the-art detailed graphics with 2D/3D display and layer technology 10 overview screens
<b>Additional services</b>	Production and materials statistics and balance sheets Trends Journals Alarm management



### OUR PARTNER

BDI - BioEnergy International AG in Grambach near Graz specializes in technology for processing renewable resources. The planning and supplying of plants for the production of biodiesel from vegetable and animal fats and oils is an important pillar of the company. AutomationX supplies the automation technology for large industrial biodiesel plants (6,000 to 100,000 tonnes per year), such as can be found in Bruck a. d. Leitha (A), Olomouc (CZ), Malchin (D), and Barcelona (E) as well as for other smaller cooperative plants. A new task for AutomationX is the implementation of process control technology in a biodiesel facility in Amsterdam.



## THE CHALLENGE

Due to the complexity of the facility, which uses a combination of tried and true technologies and new production procedures, great demands have already been placed on the control system:

- ▶ Delivery of the most important information in a clear form by the facility groups;
- ▶ Display of detailed information and manual operation as needed;
- ▶ Object-oriented configuration providing a simple, intuitive representation of interrelated objects;
- ▶ Automatic forecast calculations to support the operating team;
- ▶ Optimal use of delay time and dwell time to increase product quality.

## THE SOLUTION

The biodiesel facility in Amsterdam produces biofuel via batch processes using the aXbatch add-on. The aXbatch software is homogeneously integrated into the automationX technology.

Plant images were first created using visualised 3D objects, onto which the technical processes were then projected.

After completing the control cabinets at the AutomationX company headquarters in Grambach, Austria and performing the factory acceptance test (FAT), the hardware was placed into operation on-site.

After starting up all system groups and conducting diagnostic testing, the project was successfully concluded with the performance test run.

