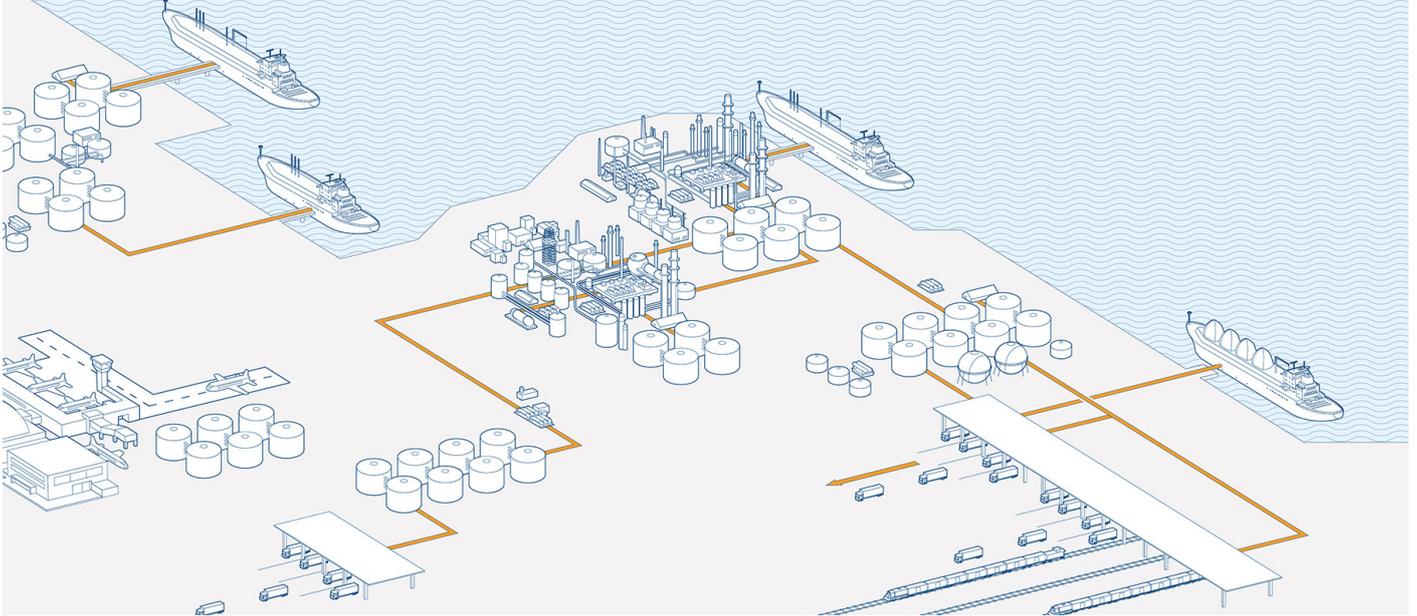


# Automation and integration in CLH loading terminals Success Story



## Customer & requirements

CLH (Compañía Logística de Hidrocarburos) is the leading company in storage, transport and distribution of petroleum products in Spain. CLH own oil pipeline network of 4.000 km., which permits the transportation of products from refineries up to the different storage and distribution centers. CLH also gives services to airports, ports and land markets.

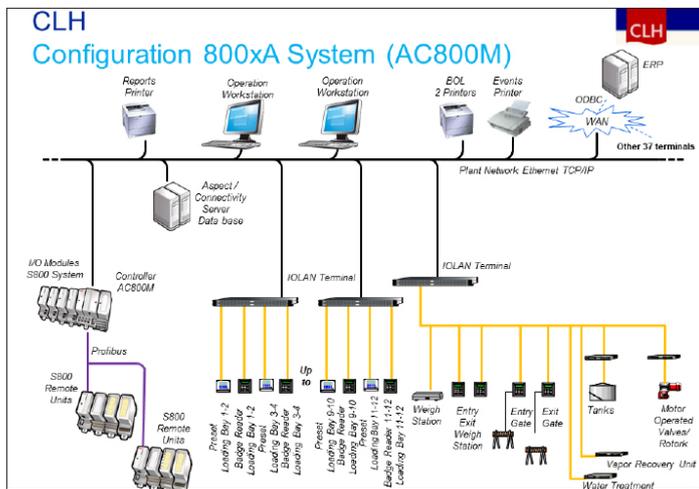
CLH and ABB began more than twenty years ago their relationship. In 1994 CLH decided to evaluate a project in the 'Plant Dispatching' to improve local operative system and to report in real time and safe way information to the company management systems.

## ABB solution

In May 1995 CLH & ABB Industry System started the project. More than ten years later based on the positive results of ABB, CLH decided in 2007 to upgrade the system of all loading terminals installations to the new 800xA system platform.

ABB offered to CLH a reliable, powerful and flexible solution based on the new system, it allowed them to centralize the control and the supervision of the different terminals, managing the project according to the new needs of CLH, ABB progressively replaced all the existing subsystems in each loading terminals.

As a result of this joint effort between ABB and CLH in this project, ABB has received orders for 43 terminals, with a total of 220 loading bays, more than 875 loading arms and tank farms with a capacity of more than 8 million cubic meters of products.



TMS architecture



Pictures courtesy of CLH

### Scope of the project

CLH required that the functionality in the new platform should fulfill the existing high operational security level demanded, maximum availability of the terminals, remote maintenance, simplicity to configure and upgrade. Besides this functionality, the impact to the operator and the swap time between former system and new system had to be reduced to a minimum.

### What our new system offered to CLH?

- Additive measurement and control of additive mixing.
- Operation control overall terminal balance and statistics.
- Steam recovery and effluent control.
- Direct access to have real time information about situation of orders, trucks, etc.
- Carrying out level and temperature corrections within 800xA platform calculated from data of stream gages.
- Integration of auxiliary services (electrical, fire detection...)
- Remote dispatching which permits supervision and control of all loading terminals simultaneously from CLH Control Center in Madrid, receiving the information in real time.

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