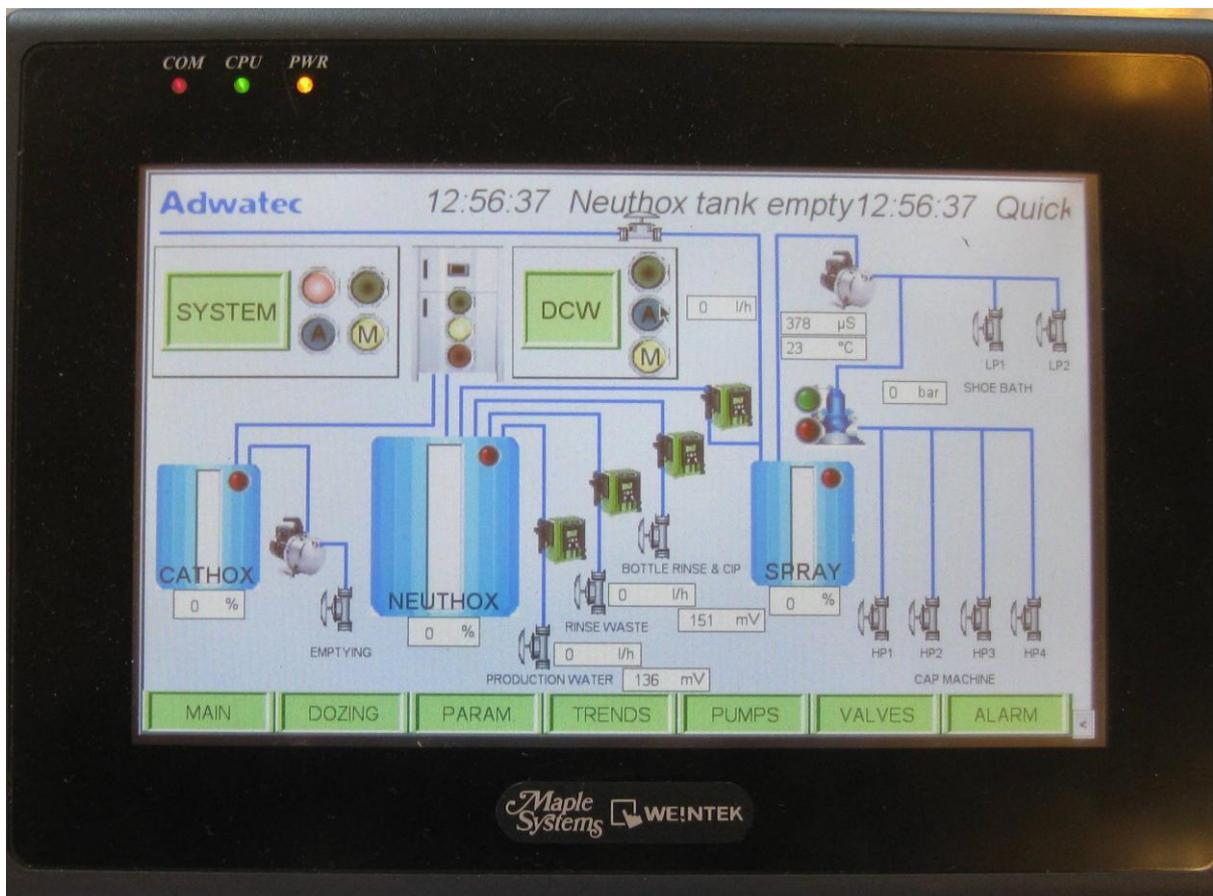




Danish Clean Water



BREW AND BEVERAGE



The installation.

The project was to convert an existing wet fill line to an aseptic line by the addition of a 40 Liter per hour DCW disinfectant generator and a continuous spraying system to ensure a hygienic environment and minimize line down time for cleaning and disinfection. The project was

carried out in conjunction with DCW's local partners who designed the pumping and control systems.

The generator is configured to produce both Neuthox and Cathox.



The liquids are produced into separate storage tanks and through a series of plc controlled high pressure pumps and sprayers continuously dosed at a controlled level on to the filling system to maintain aseptic filling conditions.

The whole process is fully automated and requires a minimum of human intervention. In addition a sophisticated alarm system allows the operators to intervene in case of failure to ensure a consistent product.

The high ORP of Neuthox ensures that all pathogenic and spoilage bacteria are destroyed. The Cathox produced is used for its detergent like effect to remove deposits that accumulate within the system.

The product was a juice based soft drink that was being bottled under licence.

The Benefits:

- **Health**
 - workers and users are not subject to a strong, unpleasant environment, this will have direct impact in their future health
- **Safety**
 - no need to handle, mix or dilute hazardous chemicals
 - environmental friendly solution
- **Efficiency**
 - elimination of biofilms and inactivation of pathogenic microorganisms including Legionella and Pseudomonas species
 - more effective than chlorine and other disinfectants against most bacteria.
 - better oxidizer than traditional chlorine which enhances filtration
- **Cost reducing**
 - the system is fully automatic and only requires a minimal operator attention
 - no need for transport, handling or storage of chlorine gas, hypochlorite or other noxious chemicals.
 - no need for additional chemicals or algaecides