

CUSTOMER CASE



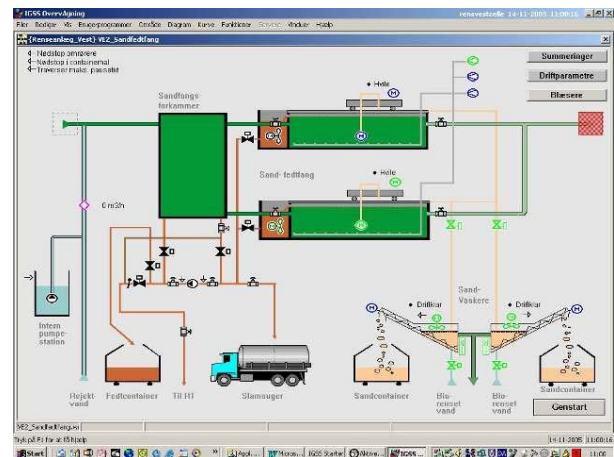
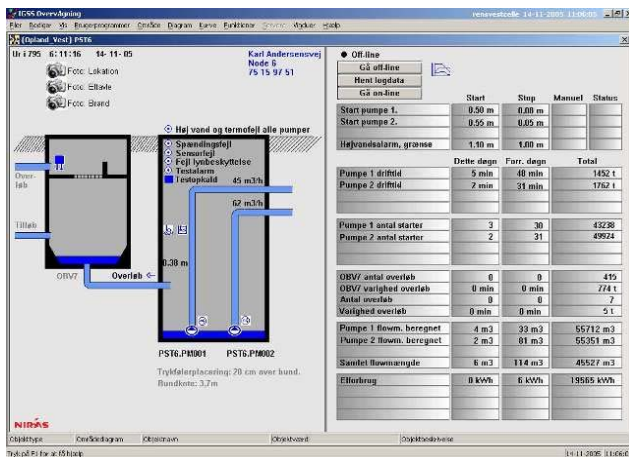
Esbjerg Municipal Wastewater Treatment

Wastewater Treatment

Denmark

Plant Description

Esbjerg Municipal Wastewater Treatment has been thoroughly modernized in order to utilize SCADA in its daily production and now equips Esbjerg city's two wastewater treatment plants (east and west) and approximately 90 sewage pumping stations with the latest generation of SCADA hardware and software. The outdated ABB system is gradually being replaced with Siemens S7 PLCs and IGSS system.



The two treatment plants are connected through the municipal administrative network and can also be remotely connected. Operations people can connect to the surveillance any given place through the network by dial-up from home or from pumping stations, service cars etc. IGSS systems integrator NIRAS can via VPN or dial-up connect to the facilities for handling, process optimization, consultancy and teaching.

CUSTOMER CASE

In the surrounding area, there are 84 pumping stations, measurement stations and overflow structures equipped with standard MJK pump controllers/data transmitters, and there are 5 major pumping stations equipped with Siemens S7-300 PLC. There is dial-up connection to the SCADA system via landline or GSM.

IGSS system

Purification Plant East

Surveillance is undertaken by an IGSS multi-user system with 5 operator stations and 5,000 objects. The PC network is the municipal administrative Ethernet network. The PLC management and control consists of six Siemens S7-400 PLCs, 4 S7-300 PLCs, and the PLC network is Siemens Industrial Ethernet and profibus.

Purification Plant West

Surveillance is undertaken by an IGSS multi-user system with 6 operator stations and 10,000 objects. The PC network is the municipal administrative Ethernet network. The PLC management and control consists of 7 Siemens S7-400 PLCs, 5 S7-300 PLCs, and the PLC network Siemens Industrial Ethernet and profibus.



Owner

Municipality of Esbjerg

System Integrator

Niras