

# Automatic Fuel Controller, AFC Plant Management

Maximise & monitor your tank capacity automatically



Designed to control fuel logistics in liquid fuel-fired power plants, DEIF's Automatic Fuel Controller (AFC Plant Management) is an automated, safe and reliable control solution with new and innovative features. Based on the idea of controlling larger numbers of smaller, decentralised fuel tanks rather than one large central fuel tank, the AFC Plant Management solution concept makes moving and commissioning your genset fleet as well as your fleet of fuel tanks more flexible and dynamic.

## Safe truck unloading and tank levelling

In fuel transfer mode, the system can be pressurised to move fuel from the truck into the tanks. The system automatically monitors the tanks and stops pumps/valves when all tanks are filled to their maximum capacity. During refuelling, fuel is levelled between the tanks to equally share fuel between all operating gensets, raising the tanks' operating capacity until the process has been completed.

## Maximise tank capacity with intelligent management

Usually, tank inventory systems automatically stop filling at 80 % to avoid problems with fluctuating fuel volume depending on changes in temperature. Maximising tank inventory intelligently, DEIF's Automatic Fuel Controller solution increases capacity by at least 10 % for the same type of tanks without compromising safety.

## Automated day tank filling

The Tank Controller manages the integrated fuel pump and fuel transfers from tanks to the connected generators' day tank(s). When integrated with AGC Plant Management, the genset controller automatically stops fuel transfer to generator if day tank levels do not increase.

## Complete inventory data

The system handles level inputs in the tanks, including simple resistive measurements and fuel levels determined by pressure. For reading and comparing the inventory, fuel temperature can also be measured for temperature-independent inventory value just as inventory and volume can be seen and displayed in actual values.

## AFC Plant Management features

- ▶ Fully scalable multi-master system of up to 256 fuel tanks
- ▶ Simple graphical configuration
- ▶ Safe truck unloading
- ▶ Tank levelling
- ▶ Maximise Tank Capacity
- ▶ Automated day tank filling
- ▶ Complete inventory data
- ▶ Monitoring and supervision
- ▶ Emulation Solution – uses and verifies the functions of the real system for test, production and design

