Plantvare

Design of Storage Facilities for

- Ethanol
- Methanol
- Highly flammable fluids

Design of ATEX (Ex) classified facilities pressure-less/vented vessels. Design Package includes

- PFD & PID
- Process Calculations
- Instrumentation Normal & Intrinsic Safe
- Vessel Design
- Valves Pressure/Vacuum Relief
- Access Ways and Platforms
- Foundation Design
- Overspill Capture in Concrete
- Pipe Design
- Pipe Support
- Pipe Bridges
- Pumping Units
- Mixing Capability
- Loading/uploading Station.
- MCC's and Electrical Supply
- Cabling Power, Signal & IT
- Process Control System Specification & FD's
- Fire Fighting System (Foam)

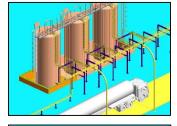
Generation of Fabrication and Erection Drawings for all above.

P-Engineering uses e.g.,

- <u>AVEVA PDMS</u> Software for 3D design
- <u>SolidWorks</u> for Vessel Design
- <u>Pipeflo®</u> for Piping and Pump Sizing

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Pictures from Ethanol Storage & Distillation in relation to API-factory (DK) for Dextran production.

Facilities: ATEX/E orage