

INGENIØRHUS MED SPECIALE I ENERGI-, PROCES- OG PRODUKTIONSTEKNIK

Adding Engineering udfører el-, maskin- og proces tekniske opgaver samt projektledelse. Arbejdet udføres altid i tæt samarbejde med vores kunder, og oftest er vi en del af kundens organisation. Den faste stab af medarbejdere består af erfarne ingeniører, maskinmestre og teknikere med stor viden inden for bl.a. nedenstående specialeområder.

Fokus forretningsområder:

- Energianlæg, herunder PtX – metanol, brint mm, varmepumper, køleanlæg, combined cycle anlæg med gasturbiner, kedler og dampturbiner, biogasanlæg, CCS, fjernvarmeproduktion etc.
- Procesanlæg, herunder pharma, kemikalieproduktion, pyrolyse, saltudvinding og raffinering, propangas - lagring og forgasning, olie bunkeringsterminal etc.
- Procesoptimering af eksisterende processer og forsyningsanlæg.

+ Teknisk og kommerciel projektledelse af store og små leverancer

+ Proces Design samt P&I-diagrammer inkl. komponenters TAG-nummerering iht. standarder eller kundespecificerede systemer

+ ATEX, SIL, LOPA & HAZOP studier, CE mærkning

+ Rørdesign incl. stress- og flexberegninger i Rohr2 på anlæg med høje tryk og temperaturer fx 120 bar/500 grader inkl. ophæng etc.

+ 3D CAD konstruktion af Generelle Arrangementer (GA) i AutoCad 3D Plant, Inventor og SolidWorks, inkl. stålkonstruktioner, rørbroer, rør, trykbeholdere (PED) og alle komponenter

+ Teknisk specifikation, dimensionering og indkøb af mekaniske komponenter som pumper, ventiler, spjæld, kompressorer, isolering etc. samt rørlister, ventillister, Tie-in Point lister

+ Maskinkonstruktion i Inventor og SolidWorks

+ Styrings/kontrol-filosofi, reguleringsloops og funktionsbeskrivelser, I/O-lister, SRO

+ Cause & Effect-diagrammer, setpunktstyper etc.

+ Programmering af PLC'er, fx Siemens TIA, ABB 800XA, OMRON, Allan Bradley, etc.

+ Procesinstrumentering inkl. instrumentlister, hook-up diagrammer, teknisk specifikation og indkøb

+ Konstruktion og tegning i E-Plan, PC-Schematic, SEE Electrical, etc.

+ Stærkstrøm, konstruktion og beregninger, styre- og fordelingstavler, forbruger- og kabellister

+ Dokumentationsopgaver, O&M-manualer, QA/QC-dokumentation

+ Site management

+ Commissioning, FAT og SAT



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ENGINEERING HOUSE SPECIALIZED WITHIN ENERGY, PROCESS AND PRODUCTION TECHNOLOGY

Adding Engineering carries out electrical, mechanical and process engineering as well as project management. The work is always carried out in close cooperation with our customers, and most often we are part of the customer's organization. The permanent staff of employees consists of experienced engineers and technicians with extensive knowledge within i.a. the areas below.

Focus business areas:

- Energy plants, including PtX – methanol, hydrogen etc., heat pumps, cooling system, combined cycle plants with gas turbines, boilers and steam turbines, biogas plants, CCS, district heating production etc.
- Process plants, including pharma, chemicals, pyrolysis, salt extraction & refining, propane gas storage and gasification, oil bunkering terminal etc.
- Process optimization of existing processes and supply facilities.

+ Technical and commercial project management of large and small deliveries

+ Process Design and P&I diagrams incl. components' TAG numbering according to standards or customer specified systems

+ ATEX, SIL, LOPA & HAZOP studies, CE marking

+ Pipe design incl. stress and flex calculations in Rohr2 on systems with high pressures and temperatures e.g. 120 bar/ 500 degrees incl. suspension etc.

+ 3D CAD design of General Arrangements (GA) in AutoCad 3D Plant, Inventor and SolidWorks, incl. steel structures, pipe bridges, pipes, pressure containers (PED) and all steel & piping components

+ Technical specification, dimensioning and procurement of mechanical components such as pumps, valves, dampers, compressors, insulation etc. as well as pipe lists, valve lists, Tie-in Point lists

+ Mechanical design in Inventor and SolidWorks

+ Control philosophy, control regulation loops and function descriptions, I/O lists, SRO

+ Cause & Effect diagrams, set point lists etc.

+ Programming of PLCs, e.g. Siemens TIA, ABB 800XA, Omron, Allan Bradley, etc.

+ Process instrumentation incl. instrument lists, hook-up diagrams, technical specification and procurement

+ Electrical design in E-Plan, PC Schematic, SEE Electrical, etc.

+ Electrical Power systems, design and calculations, control and distribution panels, electrical consumers lists and cable lists

+ Technical documentation, O&M manuals, QA/QC documentation

+ Site management

+ Commissioning, FAT and SAT



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