www.PCA-PROCESS.com

PROCESS CONTROL AMSTERDAM

YOUR 2nd LINE TECHNOLGY PROVIDER

- REMOTE MONITORING – PLANT STABILITY
- OPERATIONS ANALYSTICS – KPI'S,
- PROCESS- & PROCESS CONTROL CONSULTANCY
- GREEN PROCESS CONTROL SOLUTIONS IN OIL AND GAS
- ENERGY REDUCTION - INCREASED THROUGHPUT - CO2 REDUCTION
- DYNAMIC SIMULATIONS – DIGITAL TWIN – PROCESS MODEL

Online Process- & Process Control consultants

PCA-PROCESS consultants are PROCESS CONTROL professionals with a Chemical Engineering's background with 25 years+ of experience in Oil and Gas processes, Operational experiences, Process Control, Automation and Dynamic Modelling.

PCA-PROCESS.com consultants;

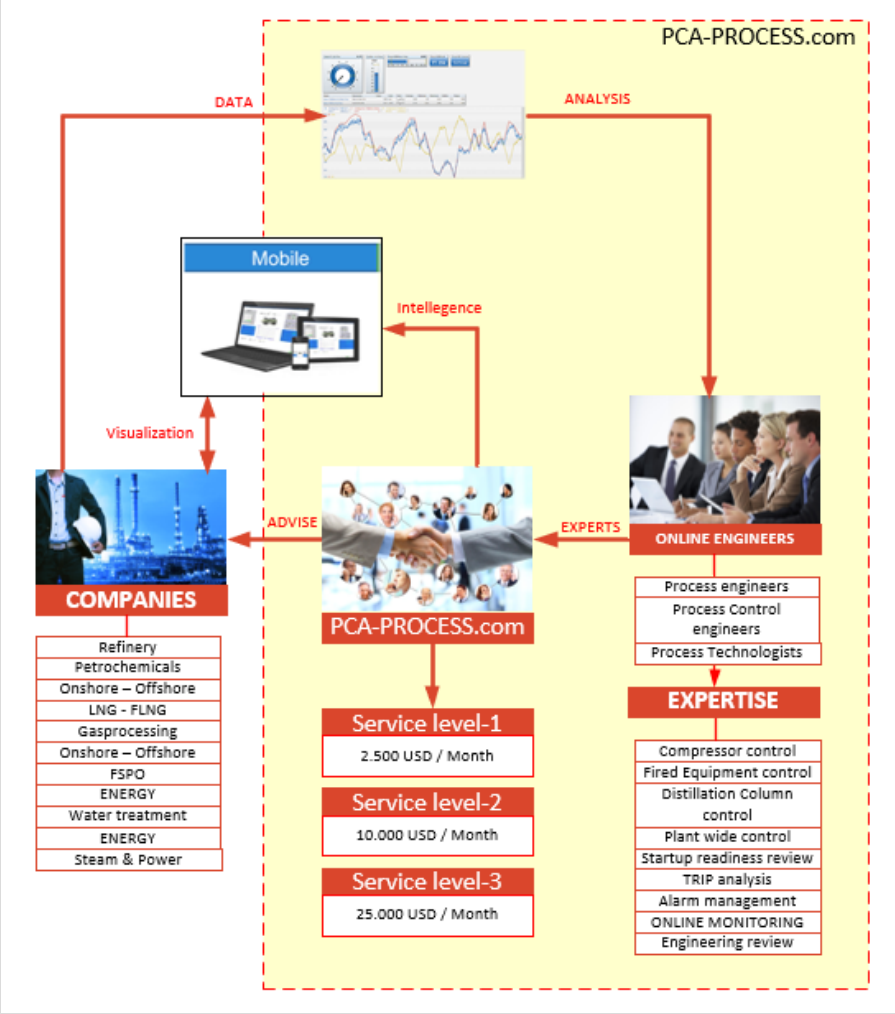
- Chemical Engineers fully specialized in PROCESS- & PROCESS CONTROL,
- Delivering PROCESS- & PROCESS CONTROL consultancy solutions; no hardware, no software,
- Have 25 years+ PROCESS- & PROCESS CONTROL experience in Offshore, Upstream, Downstream, Refinery, Petrochemicals, Fine chemicals, LNG, FSPO, Waste water, Steam- & Power generation, Utilities, Polymers, tanning, food, pharma, Gas Processing, GTL, NGL, Pipe-lines
- Will provide free PROCESS CONTROL - HELPDESK for your Process Control questions,
- Have worked globally for companies in Oil and Gas; Europe, Africa, Middle East and Asian-Pacific,
- Process Control functionality; DCS, SIS, SCADA
- Base layer Process Control strategies; Plant throughput control, Distillation control, Fired Equipment control, Boiler control, Fuel-gas control, Compressor control, Steam turbines- & Steam system controls, Gas turbine – Generator control,
- ADVANCED PROCESS CONTROL (APC), Model Predictive Control (MPC), Multi Variable Control (MVC),
- Interferential measurements; Quality Estimators (QE),
- Alarm management; advice on reduce of alarms,
- Remote Process Control - MONITORING and -DIAGNOSTICS services, reducing downtime, improve safety, reducing startup time, reducing flaring,
- Stability MONITORING of PID-controllers and advice on improvements,
- " 6 SIGMA PROCESS CONTROL" – improvements with "LEAN KPI" – process cycles.
- Control systems (ICCS); STARTUP READINESS review, FAT, SAT, Hot- & Cold commissioning-, Run & Maintain- reviews,
- "Big data"- and "Industrial Internet of Things" (IIOT) – strategies,
- (Individual – Online) Process Control staff training, supported by dynamic simulations,
- DYNAMIC SIMULATION of Oil & Gas processes and control strategies,
- COMPRESSOR control; parallel control strategies, Surge testing, Coast Down surge strategies supported by DYNAMIC SIMULATIONS,
- Steam boilers and Steam systems control strategy, supported by DYNAMIC SIMULATIONS,
- HAZOP, LOPA, SIS, SIL, SIF, Safeguarding Strategies in combination with Process Control Strategies.

How does it work?

Based on the Service-Level-Agreement (SLA-1/2/3) you will get a PROCESS- & PROCESS CONTROL service package for; REMOTE MONITORING, DYNAMIC SIMULATION and ENGINEERINGS SERVIVES;

Step-1	Company agrees on SLA and the deliverables,
Step-2	Company send PFS, PEFS, Process Control- & Safeguarding narratives, Heat-& Material balances, Instrument datasheets and other relevant documents to PCA,
Step-3	Company gives PCA remote access to SCADA-systems (e.g. via PI-PROCESSBOOK from OSISOFT),
Step-4	Depending on SLA, company receives monthly, bi-monthly or weekly stability- and improvement reports from PCA.

Monitor – Analyze – Advice - Improve



What does it cost?

Services Level Agreements

				Notes
	SLA-1	SLA-2	SLA-3	10
Reporting frequency per month	1	2	4	
Free "Process Control questions" to helpdesk per month	4	8	20	30
Dynamic Simulation credits	5	10	25	40, 41
Online Process Control training hours for staff	-	4	10	50
On demand site visits (weeks per "3 months")	-	1	2	71
Costs in USD (ex 21% VAT)	2500	10.000	25.000	70/71

Notes

10 SLA's are based on a 12 month subscription. First setup for remote monitoring is 60kUSD.

30 Response time will depend on the scope of work. Helpdesk is available during normal office hours.

40 Dynamic Simulation credits/costs are depending on the size of scope and by example; "3 stage compressor & control" = 5 credits, "1x Distillation column & controls" = 10 credits, or equivalents processing facility sizing. First time entry is 50 kUSD.

41 Dynamic Simulations are exclusive software license costs; 3,000 USD per month unless company's dynamic simulation license can is used.

50 Hours per month,

70 Costs are per processing unit are by example; 1x hydrocracker, 1x FSPO, one Ethylene cracker, 4x parallel compressors, 1x LNG-train, 3x steam-boilers, or equivalents processing facility sizing.

71 Transport-, flight-, housing, expenses for site travel are excluded from monthly subscription

PLEASE CONTACT US,

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