



# Project Delivery

*Reducing the engineering phase of projects  
in the petrochemical industry*



The increasing demand for shorter lead times puts the quality of projects under pressure. Projects usually start in the Front End Engineering Development (FEED) phase before technical specialists become involved. As a result, valuable input – lessons learned on site within the corporation and globally – is not incorporated into the Basic Design Engineering Package (BDEP) and Project Specification documents. Such omissions could result in a decline in reliability and safety of installations, higher life cycle costs, and, ultimately, longer lead times.

The proven Project Delivery approach taken by IPSS Engineering means that the technical phase of a project can be completed faster and for lower development costs.

## Project Delivery



### Proven Project Delivery approach

Using the latest engineering tools and development of innovative management and technical procedures, IPSS Engineering is able to complete the engineering phase of a project in a shorter amount of time. Lessons learned in earlier (phases of) projects regarding the

development history of technical failures and irregularities are carefully administrated and processed in technical documentation and design rules.

It is essential to agree on assurance and delivery procedures with the client before initiating the project phase as it leads to clarity for all parties involved, including the project team.

As a result of technical and management input being defined more effectively and thoroughly, this decreases capital expenditure and project turnaround. This approach also assists the project teams in developing, engineering and implementing capital projects (Greenfield or extension projects).

IPSS Engineering can customize your projects e.g. by means of specialized engineers at client sites.

#### COMPANY PROFILE

### IPSS

IPSS Engineering is an experienced company which can provide engineering from the Basis of Design (BOD) to the engineering, procurement and construction (EPC) phase of a project, and which can complete the project by means of commissioning, hand-over and training. By maintaining a high level of competence in the fields of Process Technology, Process Design/Engineering, Electrical & Instrumentation and Mechanical, IPSS Engineering is a complete venture for large-scale, complex capital projects in the oil and gas industry.

Project Management

Procurement

Subcontracting

HSSE  
Risk Management

Execution/  
Implementation  
Assurance Plan

Project Assurance

Planning

Cost Control

Contract Management

Construction  
Management

Feasibility studies

PFD's

Heat & Material  
balance

P&ID's

Piping design

Commissioning/  
start-up manuals/  
safety manuals

### Multidisciplinary project teams

IPSS Engineering's multidisciplinary teams are familiar with the complete process engineering design of installations to be built for solid materials, liquids and gasses, as well as their eventual (pre)commissioning and start-up. Speaking both from a qualitative and quantitative perspective, our multidisciplinary project teams are also able to substantially improve and optimize existing (production) processes following troubleshooting. During the course of an engineering assignment, the multidisciplinary project teams concentrate predominantly on the 'Conceptual' and 'Basic engineering' sections of a project (BDEP). They will also provide you with support during the following steps of the project.

IPSS can assist you during each phase of the project. You specify the extent of our support for each phase. We only take control of those tasks which you cannot complete in-house or which you are unable to devote sufficient capacity to. From conceptual design and construction or EPC to commissioning, we take health, safety, security and environment (HSSE) aspects into consideration.

### Competent in all processes

Do you have new construction plans or wish to get more out of an existing installation? Want to increase capacity or reduce energy consumption? We work in close collaboration with you to find the perfect balance between cost and capacity, in accordance with established quality control standards. Furthermore, we always pay attention to production line availability and continuity of production. We understand the process industry and know how valuable it can be to save even a single hour of downtime. For revamp projects such as capacity expansion, implementation of

new technologies, or automation projects, we always keep the broader, professional and economic context firmly in mind.

### Custom work

Your specific project is examined to determine which specializations are necessary for its successful completion. We then assemble a project team of dedicated specialists. In case of any subsequent work or a new project, the team will know the specific practices of the organization so that all parties involved are deployed immediately and are productive.

### Fully independent

IPSS Engineering works entirely independently and can work together with any of your other partners and/or suppliers. You trust in your network; we fit into it seamlessly.

### Maximum transparency

New construction and optimization projects in the process industry involve substantial investments. This requires mutual trust. As far as we are concerned, this is not blind trust, but fully open cooperation and teamwork. By giving you complete insight into budgets, planning, safety standards and engineering methods, we offer you maximum transparency, right from the start.

However, openness also means that we will make optimal use of your knowledge as well. We are not one-way advisors who tell you what needs to be done. You know your production facility more than anybody and you know what works in practice. We want to make optimal use of this knowledge to develop the most efficient and results-oriented approach together with you. From identifying the project and completing a feasibility study to the commissioning of your new installation, this level of transparency is upheld in all our actions.

**IPSS Engineering is your multidisciplinary partner with specialized engineers for:**

- Process Design/  
Engineering/Technology
- Process Control
- Electrical
- Instrumentation
- Mechanical
- Piping
- Civil/structural





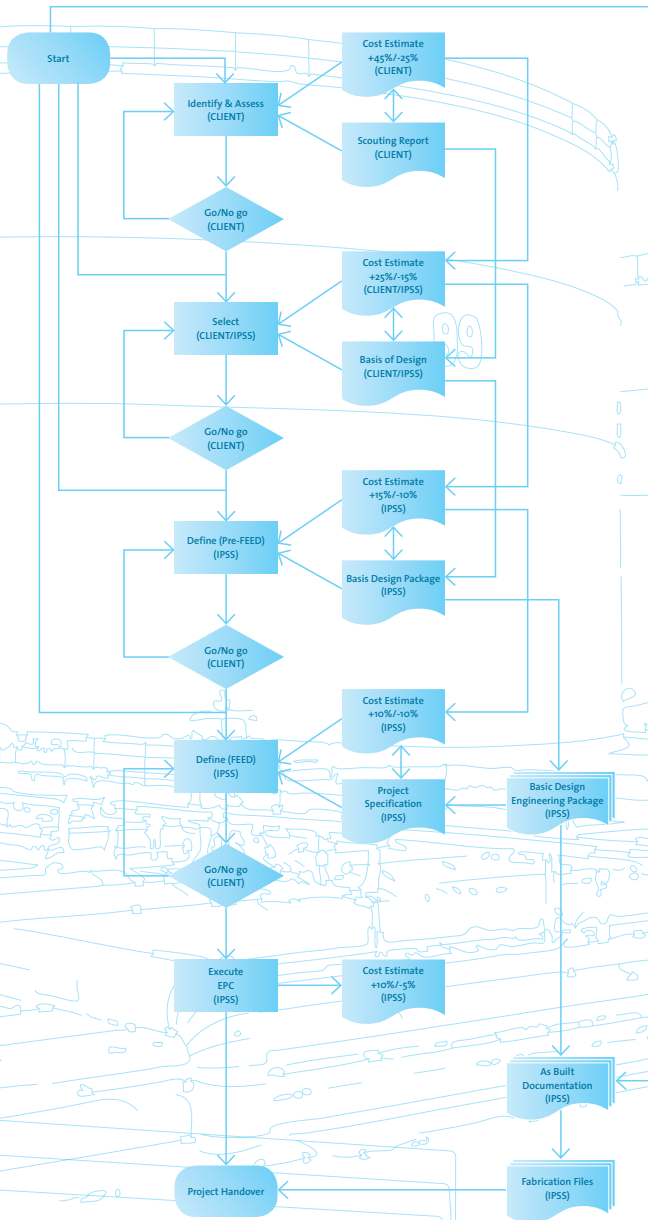


**Safety above all else!**

A results-oriented approach should never come at the expense of safety. If the obligatory technical documentation is not available at certain installations, IPSS Engineering will support your organization by determining any risks at these sites. IPSS Engineering employs a number of qualified professionals who can establish and make an inventory of environmental aspects.

We carefully conduct, check and record an evaluation of the current plan with regard to current laws and regulations.

Another HSSE aspect lies in conducting a safety assessment and testing the technical integrity of your installations with regard to safe operation. We determine these necessary elements in order that requirements pertaining to laws and regulations, and to prevailing norms and standards, are fulfilled. If applicable, IPSS Engineering can conduct HAZOP studies and record the risks of a dust or gas explosion so that you can take effective measures and submit a concrete risk analysis.



**IPSS Engineering BV**

**Head Office Ede**  
Galvanistraat 14-3  
6716 AE Ede  
The Netherlands

T +31 317 421 727  
F +31 317 427 717  
E info@ipss.nl

P.O. Box 632  
6710 BP Ede  
The Netherlands

**Office Vlaardingen**  
Stoomloggerweg 8-10  
3133 KT Vlaardingen  
The Netherlands

T +31 10 460 01 46  
E info@ipss.nl

**Office Amsterdam**  
Asterweg 19-D12 Unit 1  
1031 HL Amsterdam  
The Netherlands

T +31 20 820 23 34  
E info@ipss.nl