ABB has developed a suite of front end services to help operators scope, cost and plan capital projects effectively and efficiently during the early stages.

Building on our expertise and knowledge of front end execution, ABB has developed robust processes, which when combined with sector leading software, provides our clients with high quality designs that will successfully underpin subsequent project phases.

Our suite of front end services includes methodologies to assess front end designs and estimates for completeness and accuracy. Our services have been specifically designed to avoid the pitfalls inexperienced project delivery organisations sometimes fall into. Our objective is to create greater certainty for our clients in support of their capital investment projects.

“Thanks to ABB for the effort to bringing this work to completion in a safe and effective manner. The professional manner with which you completed the work, in trying and sometimes frustrating conditions and circumstances was good to see.”

Project Manager, SABIC

What we offer
ABB offers a combination of proven industry methodologies and ABB developed processes to deliver the following front end services to meet clients’ needs:

- Process conceptual studies - early evaluation of technologies and options
- Rapid and accurate project development - efficient and effective production of cost estimates from conceptual process studies
- FEED - generation of project scope and cost estimates, usually for business sanction purposes
- FEED health check - a systematic review of project definition and gap analysis
- Project risk management - an analytical approach to the assessment of project risk and uncertainty
- Contracting strategies - review and selection of appropriate project delivery methods
- Project value analysis - a structured approach to optimise cost by aligning only critical scope to project objectives
Benefits
Working with ABB’s functional engineers and designers brings a range of benefits to our clients, including:

- Improved quality of project scoping and definition for subsequent EPC phase
- More robust sanction estimates with increased potential to deliver on budget and on schedule
- Reduced demand on operator in-house engineering resources
- Alignment of project scope with key business objectives to deliver value solutions
- Reduced risk through identification and prioritisation of key project risks
- Improved planning and execution strategy aligned to effective and efficient delivery

Why ABB?
ABB’s heritage as an engineering department for a large multi-national chemical company gives our engineers a unique operational perspective to the engineering challenges facing process plant operators today. ABB’s capabilities stem from a proven track record in project development and design, coupled with an in-depth understanding of the operational issues faced by manufacturing organisations, including:

- Working on live assets
- Experience across the majority of sectors within the process industries
- Familiarity with codes, practices and plant operations
- Application of best practise