



**M.E. ENGINEERING**  
PROCESS ENGINEERING SOLUTIONS

## CAPABILITY STATEMENT

### OVERSIZE VESSELS



For further information please contact...

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## 1. INTRODUCTION

*M.E. Engineering* is an engineering consulting company with more than twenty-five years of continuous experience in the implementation of process plants and associated facilities. All aspects of design, drafting and the supervision of mechanical and electrical fabrication subcontractors are carried out from our offices in Sydney, NSW.

Our engineers are mainly chemical and mechanical with wide ranging experience in the implementation of process projects, including the project management of a number of projects involving oversized equipment.

We have also worked as members of multi-contractor teams on major projects, utilising specialist designers, suppliers or fabricators as needed to meet project requirements. We can develop engineering designs in-house or work with basic engineering packages provided by others. We also work comfortably in conjunction with specialist technology companies from Europe, America and Japan.

Our usual mode of operation is to provide engineering services for an EPCM (Engineering, Procurement, Construction, Management) style of project implementation. We offer the services as a lump sum contract providing clients with a fixed fee for services provided. This allows our clients to budget for engineering as part of the project capital cost and hold the project to budget. Typically *M.E. Engineering* cost ranges from 5 to 10 % of the total capital expenditure.

*M.E. Engineering* is a privately owned company, with ownership by one of our practising senior process engineers.



**M.E. Engineering provides quality and cost effective services**

## 2. WHY USE M.E. ENGINEERING

- *M.E. Engineering* analyse stated requirements, understand system needs and implement solutions
- Strong project management experience
- Specialise in turning process needs into a physical reality
- Experience: We have been along the learning curve with resolving all the logistical and planning hurdles of moving large pieces of equipment
- Experience in locations remote from our offices, supervising local sub-contractors and tradesmen

## 3. EXPERIENCE

The staff of *M.E. Engineering* have project managed a number of large vessel relocations, for photographs and details see

[http://meeng.com.au/projects/large\\_vessel\\_installation.html](http://meeng.com.au/projects/large_vessel_installation.html)

## 4. AVAILABLE SERVICES

### **Project management:**

Organisation and control of cost, schedule, quality and performance of projects

### **Preliminary engineering**

Establishing preliminary budgets and schedules including approaches to statutory authorities and potential clients

### **Feasibility studies:**

Preliminary cost and budget estimates, scope input and past experience are a valuable segment of feasibility studies. *M.E. Engineering* can work as part of the team examining project feasibility



**Site upgrades increase existing production**

## 5. QUALITY ASSURANCE

*M.E. Engineering* is completely familiar with ISO 9001-1994: Quality Systems for Design, Development, Production, Installation and Servicing. Tailored quality plans can be prepared on an individual to suit client's specific requirements for such documentation. Alternatively *M.E. Engineering* uses a system of personal accountability to ensure the system output achieves the required quality.

## 6. MANAGEMENT SYSTEMS

*M.E. Engineering's* approach to successful projects is based on qualified, experienced personnel supported by good organisation and systems. The major elements of our management systems are outlined here.

### a) Cost Control

*M.E. Engineering* operates a computerised system for collation, reporting and control of costs on projects. Labour, purchasing and sub-contract activities are budgeted at the start of each project and the project manager monitors all activities against these budgets.

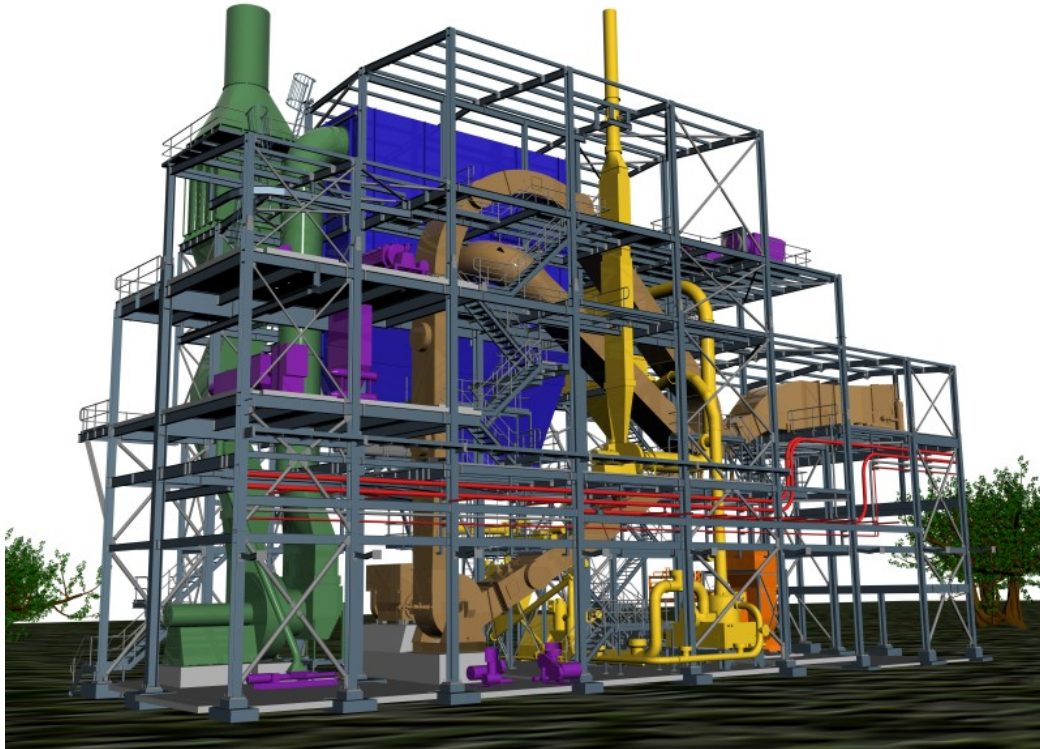
Where changes to the agreed scope of work occur on a project, the *M.E. Engineering* manager will notify the client of the nature of the change and its impact on cost and timing. When approved, these variations are incorporated into the project cost control system for proper monitoring.

### b) Project Planning

*M.E. Engineering* uses Microsoft Project for planning and scheduling activities. Preliminary schedules are normally developed during the tender period and then expanded significantly during project mobilisation to incorporate all key project activities and identify long lead items and critical paths. The schedule is updated regularly during the course of the project. Sub-schedules are established when necessary, for example when site activities require careful planning on a day by day basis.

### c) Drafting Systems

Drafting at *M.E. Engineering* is carried out using the latest version of AutoCAD and includes 3D modelling capabilities.



3D rendering brings projects to life

### d) Safety

*M.E. Engineering* has a strong commitment to safety, both in the good design of plants and in site supervision practices. We have an excellent record for injury free work.

We develop Safety Management Plans for specific projects where the size of the project justifies or we can work within a client's safety management system.

### e) Insurance

*M.E. Engineering* has the following insurance policies

- Professional Indemnity Insurance of \$2,000,000
- Public Liability Insurance of \$10,000,000
- Workcover for *M.E. Engineering* employees
- Comprehensive motor vehicle insurance for *M.E. Engineering* vehicles