

Industrial engineering



Cadbury Schweppes factory, Melbourne

Cadbury Schweppes Australia required a purpose built, owner occupied facility to store their Easter eggs prior to their Australia wide distribution. Arup was commissioned to provide industrial, structural, transport and civil engineering for the project.



Wandoo Concrete Gravity Structure

The Wandoo 'B' offshore installation on Australia's North West Shelf is the first concrete gravity substructure (CGS) in Australian waters. Arup designed the CGS to be easily built, using straight walls, flat slabs and low reinforcement densities to keep construction time to a minimum.

Arup has a multidisciplinary industrial engineering group that provides both specialist and integrated design, engineering and management services for a wide range of industries including:

- manufacturing and assembly
- pharmaceutical and fine chemicals
- brewing and bottling
- food processing
- electronics
- oil and gas
- nuclear
- power generation
- aerospace
- telecommunications and information technology

The industrial engineering team has successfully completed many engineered design and management projects and each one benefits from a specifically assembled project design group comprising Arup engineers of all disciplines and experience.

These specially formed teams handle all stages of projects from inception to completion, including initial studies of economic and technical feasibility, conceptual designs and strategic planning advice, detailed design, project management and the supervision of construction, installation and commissioning.

To achieve the best project outcomes for clients' businesses, Arup uses a high degree of applied computer technology in analysis work. This includes computational fluid dynamics for flow and thermal process work and finite element analysis associated with manufacturing process simulation, impact analysis and crash worthiness.

In addition to Arup's work in the design and project management of industrial facilities we have significant specialist capabilities in the fields of:

- energy engineering
- hazard analysis
- process simulation
- impact analysis
- waste handling and transportation
- environmental engineering
- special structure