

Building services

Arup provides full building services engineering integrated with the building design and aesthetics based on local understanding, international knowledge and technical competence.

Arup's early involvement in the design process helps to maximise the cost-effectiveness and flexibility of the project.

Through active consultation with clients and architects, building services are integrated into the building aesthetic and the most adequate and economically viable solution is found.

Arup understands the importance of finding a solution that balances capital and operating costs and works with clients to achieve this equilibrium.

Design solutions support long term sustainability for clients, building systems and end users.

With a broad skills base, Arup creates holistic solutions for clients, with a multidisciplinary team.

Building physics

Reduced operational energy demands can attract significant financial and environmental benefits.

Arup is a world leader in applying the principles of sustainability to building services. Designs focus on minimising the environmental impact of buildings through energy efficiency and materials choice based on life cycle impact.

Arup's building physics specialists use local understanding, international knowledge and computer software to model the environmental impact of the building. This gives clients visual representation of the indoor environmental quality and energy efficiency the building will achieve.

Whilst our engineering base is resident in local offices, Arup's building services skill network allows engineers to draw on the vast internal technical resources available globally.



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DPI Queenscliff Centre, Vic

Through Arup's involvement, this research, development and education centre sets a benchmark in sustainable design and close integration with the surrounding environment.



University of Technology, Sydney

A technically challenging project, Arup is providing full building services engineering on more than 40 undergraduate and research laboratories. These spaces must have precise controlled environmental conditions, special ventilation and sophisticated audio-visual systems.

Arup building services engineering covers the following:

- Mechanical services
- Electrical services
- Lighting
- Communications
- Energy modelling
- Vertical transportation
- Computational fluid dynamics
- Hydraulic services
- Fire protection
- Controls and commissioning
- Risk management
- Sustainability