



CAE

Packaged Equipment Houses



Your solutions provider

PROFILE

Advanced CAE Pte Ltd, a member of the Advanced Group of companies, is a service-focused packaged solutions specialist which has been providing systems from its factories in Singapore and China since 1993. The main focus of Advanced CAE is on onshore road transportable structures and skids for the Oil, Gas and Petrochemical businesses. With its experience and track record of delivering successful projects, which spans over 18 years, customers can be assured of first class solutions from Advanced CAE.

LOCATION

Advanced CAE has two systems manufacturing facilities which are located in Singapore and Shanghai, PRC. Through these strategically situated facilities, we are able to minimise sourcing costs, and at the same time, effectively establish bases for our service teams within Asia.

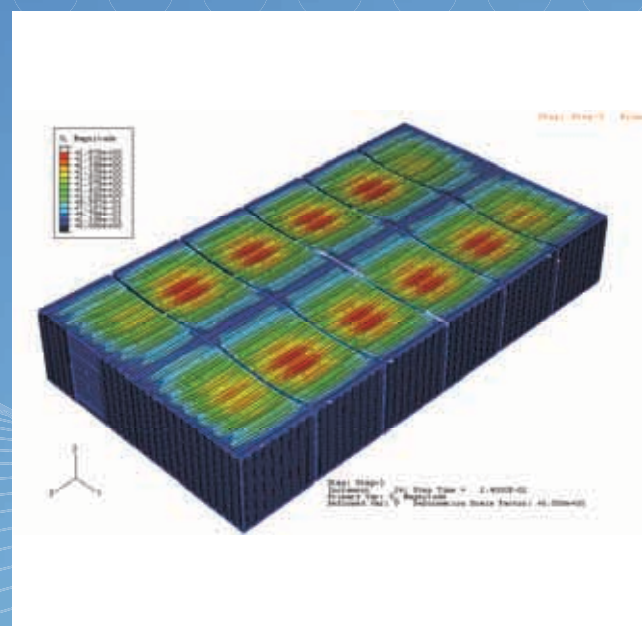
- Singapore factory floor area: 1,700 m²
- Shanghai factory floor area: 8,000 m²

OUR VISION

Advanced CAE's vision is to be a global leader in providing end-to-end services, and to be a consistent, reliable supplier providing value-added quality services throughout the entire life cycle of our customers' products.

INDUSTRIES

Advanced CAE supplies solutions primarily to the Oil & Gas, Petrochemical and Mining industries. Tapping on its experience and technological know-how, Advanced CAE designs and builds customised, easy-to-maintain Packaged Systems that are tested and proven to be reliable in the field.



AN INTEGRATED SOLUTION

Advanced CAE provides a one-stop shop for all Packaging needs, from design, factory manufacturing, commissioning, start-ups, supply of spare parts and upgrading to on-site maintenance. All major projects have a project manager so there is a single point of contact for all matters related to that specific project. Utilising the latest technology in secure networking and file-sharing from across the globe, our engineers have developed procedures and methods to seamlessly design and engineer projects catering to different time zones, cultures, and requirements. Almost all our project managers and engineers have dual-language capabilities to ensure smooth, efficient project communication regardless of where the customer is located.

TRAINING SERVICES

Advanced CAE provides purpose-built training courses for customers, be they new operators or experienced existing users. These training courses cover commissioning, operation, routine, or extensive maintenance, and can be conducted on-site or at our factories. Our trainers are professionals with years of hands-on experience in systems and product designs and as such, possess the necessary qualifications to impart expertise through theoretical aspects and hands-on skills training.

CUSTOMER CENTRIC

Advanced CAE is a customer-oriented company that listens to our customers' needs and tailors its systems and business approaches accordingly. We strive to provide solutions that best meet our customers' distinct requirements - ranging from quality, safety, lowest cost of ownership, lowest initial purchase price to specific supplier requirements.

OUR CAPABILITIES

Product Types

- Packaged Sub Stations
- Packaged Control System Houses
 - Containerised Systems
 - Packaged Control Rooms
 - Blast Resistant Structures
- Mobile SubStations (Trailer Mounted)
 - Turnkey Projects

Industries and Processes

- Oil Fields and Gas Wells
- Power Production (Wind and Solar)
 - Above/Underground Mines
 - Refineries
 - LNG Terminals
 - Petrochemical Plants

Manufacturing Standards

- ISO9001
- Customers' Standards
- ASME, ASTM, GOST, JEC, IEC



PACKAGED SOLUTIONS

Packaged equipment houses, commonly called Ehouses or Field Auxiliary Rooms (FARs), are growing in popularity as factory-built solutions for providing power and control systems at green or brown field sites.

Control systems and electrical substations for medium and low voltage distribution can be efficiently packaged into road-transportable metal, GRP (Glass Reinforced Plastic) or concrete buildings (houses) that can be shipped, ready assembled, to site. Frames can be supplied to support buildings sitting above a simply prepared concrete or compacted ground, allowing cables to enter from the floor of the house. In a nutshell, packaged systems greatly **reduce site work** and installation time.

By manufacturing off-site, these Ehouses can be built in a clean factory environment to high standards of finish very quickly, reducing on-site activities, and allowing building specifications to be decided later in the project cycle. Building the houses later in the project cycle allows more details of the control or electrical system to be finalised, this can significantly reduce the initial cost, by having finalised specifications, cable losses and introduce savings on utilities consumption for the life cycle of the building. Off-site pre-packaging and testing of these complex systems results in much less work at the site, with work being restricted to field termination of cables. Advanced CAE's team of

specialists is able to commission all the different systems that need to be installed, thus reducing the need for multiple contract teams. This avoids the need for specialists on site for the installation of multiple systems that include Electrical, DCS (Distributed Control System), HVAC (Heating, Ventilation, and Air Conditioning), Safety and Fire Control systems among others. For all projects, particularly those at remote, difficult and insecure sites, Advanced CAE **controls project risks** by minimising any on-site field work, which will also result in improved project cash flows and predictable savings for OEMs (Original Equipment Manufacturers), Engineering Contractors and end-users.

In addition to building and structural design capabilities, Advanced CAE is an Electrical, Instrument and Control company that has extensive experience in the Oil & Gas industry and is familiar with the industry specifications required. As such, Advanced CAE is fully versed in hazardous area requirements and the latest regulations for blast-proof structures. Various designs are available ranging from, modified shipping containers, custom buildings, large modular fire-resistant buildings and blast-proof buildings. Buildings can be supplied with air-conditioning, fire and gas detection and suppression and house guard systems. In short, Advanced CAE provides a one-stop solution for OEM and EPC (Engineering, Procurement and Construction) companies as well as end users.



INDEPENDENCE

Advanced CAE is an independent system integrator free of any preferential ties to the major electrical or control system manufacturers. As a result, we retain the flexibility to manufacture our systems with any electrical or control vendor or even a mixture of vendors. We will work together with major equipment vendors as a sub supplier or perform the entire contract, managing the equipment vendors. Upon understanding our customers' requirements, we will design the system to deliver the best all-rounded solution in terms of value for the customer.



PRODUCT SERVICE AND SUPPORT

As an affiliate of the Advanced Group of companies, Advanced CAE is able to tap into the Group's extensive and expanding service organisation and global network of offices and facilities throughout the world. This enlarged footprint enables us to provide long term on-site service contracts either for routine, on demand or day-to-day maintenance. Our service hubs are strategically located to enable us to respond quickly to our customers' demands.



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www.AdvancedHoldings.com
An Advanced Company



Advanced CAE is a subsidiary of Advanced Holdings Ltd (Advanced). Advanced, listed on the Mainboard of Singapore Exchange, is an ISO9001:2008 certified company which designs, licenses and supplies proprietary process equipment and process technologies for the chemical and petrochemical, oil and gas, power generation and micro-electronics industries.