

ACE

Accelerated Conceptual Engineering

Accelerated Conceptual Engineering (ACE) is an ADIL developed integrated engineering process for quick, cost effective technical and economic evaluation to assist in upstream development decision making. Our ACE service is managed by experienced project and discipline engineers, with selected utilisation of specialised world class software tools.

The ACE process applies to the conceptual stages of a field development. The way ADIL works and uses the tools will depend upon the problem to be addressed.

How can ACE be used?

Operator

- Prospect or discovery - assess economic viability; assist decision on exploration/ appraisal well
- Appraise - model, evaluate and compare alternative field development options by testing technical feasibility and economic viability
- Select - improve technical definition of selected options; evaluate and compare sub-options

- Area development evaluation and planning

- Brownfield modifications evaluations

Non-operator

- Audit and benchmark
- Investment and finance
- Assess potential development value

What tools are used in ACE?

ACE: Wells

A drill centre planning tool to determine suitable locations to access targets, while minimising overall development costs.

ACE: Facilities

An industry standard facilities design tool used to develop complete facilities technical definitions and capital cost estimates for oil and gas development projects

ACE: Integration

A planning and economic modelling tool for field development and operations

ACE: Flow Assurance

A compositional thermal hydraulic steady state flow assurance tool that models multi-well systems and pipeline networks from reservoir to process plant

How does ADIL add value?

The key to success is to use an integrated approach – all disciplines work together to produce the best results

ADIL work closely with the subsurface, drilling/wells, operations and commercial teams as all disciplines influence and interact

There are three key phases to investigation and evaluation:

- Build the model, or models, of options
- Run process simulations and refine the model(s)
- Undertake schedule and economic evaluation

How it works.

