



Profile

Powering the low carbon generation.

A FTSE 100 company, British Energy Group plc is the UK's largest producer of electricity and the lowest carbon emitter of the major UK electricity generators. With a dedicated workforce of about 6,000 skilled professionals, it produces around one-sixth of the nation's electricity

British Energy Power and Energy Trading (BEPET) is part of British Energy and manages all the Group's energy trading and sales in the UK.

British Energy's trading operation is 24/7 as it continuously manages the Group's portfolio of generation to match contracted sales for every half-hour of the year.

Further info

www.british-energy.com

Case study

British Energy

British Energy Power and Energy Trading's aim is to provide the infrastructure, systems and processes to enable and optimize its trading performance. It has embarked on a 3-year change programme to align its IT systems with the business through a Process-Driven Architecture (PDA).

The PDA delivers the required Service Orientation by:

- ▶ Identifying the required capabilities
- ▶ Designing the necessary business services
- ▶ Delivering the business processes within these services

The technical services required will then be delivered through either:

- ▶ Bespoke development
- ▶ Loosely coupled packaged solutions with exposed web services
- ▶ Enterprise Service Bus orchestration of services.

Casewise Corporate Modeler is a key to understanding and developing the complete Enterprise Architecture.

Challenge

British Energy, in common with other large scale organizations, has a complex and highly interdependent application landscape. Its key challenges revolved around:

- ▶ Complexity of the existing systems environment
- ▶ Ensuring effective Change Management
- ▶ Identification of Key Capabilities
- ▶ Mapping of business requirements to its Service Portfolio

The move to service orientation through its PDA and the implementation of an Enterprise Service Bus greatly simplified the systems architecture, and we needed to extend this advantage through its entire enterprise architecture.

For this, it needed a way of understanding and mapping high-level business goals and capabilities through to detailed technical aspects such as services and data. This would give it the ability to articulate its architecture to both senior management and technical project teams.

To meet these challenges in the most effective way, it took the decision to implement an Enterprise Architecture Model (EAM) using Casewise Corporate Modeler.

Continued overleaf...

Solution

The EAM was developed using an extended meta-model derived using elements from TOGAF, the Zachman Framework for Enterprise Architecture, and the Casewise Framework approach.

This required the introduction of:

- Several new user-defined object types, such as Goal, Business Rule, Business Service, Technical Service
- Numerous user-defined associations to link the object types in the meta-model together
- Refinement of the basic 'process' object type to enable us to distinguish Functional Areas, Capabilities, Activities, and Tasks
- A range of new diagram types to express the required architectural details, such as Application Landscapes and Service Realization diagrams
- The development of a complete EAM development methodology – the BEPET Framework

This enables it to:

- Meet business needs by matching required capabilities to the appropriate business services
- Drive out sets of re-usable technical services which can realise these requirements
- Maintain an integrated overview of all the available architectural assets and components
- Quickly and easily query its asset base and understand interconnections and dependency
- Reduce the cost and risk of future change

Results

The Enterprise Model has had an immediate beneficial impact as a valuable source of information. This is used not only by IT personnel, but also by business people.

Following initial population of the model, it has moved into a “maintain and enhance” mode, in which areas will get elaborated as and when they become a focus of attention. It is expected to implement ITAA to facilitate the review and update of information to facilitate this.