

Distribution Management System (DMS) Life Cycle Services

Overview of DGA Consulting’s DMS Experience

DGA’s Consultants have been a leading contributor to the successful implementation of DMS solutions across Australia/Asia for over 20 years. Example clients are shown in the table below along with our contribution to phases of the project including:

- Strategic Roadmap Development (RM);
- Business Case (BC) development;
- Requirement Specification and Conceptual Architecture (RS);
- Procurement Support (Pro);
- Implementation and Change Management (Imp); &
- Post Project Reviews and System Enhancements (PPR)

Company	RM	BC	RS	Pro	Imp	PPR
Energex	X	X	X	X		X
United Energy	X	X	X	X		
Powercor			X	X		
Ausgrid	X	X	X	X	X	
Ergon	X		X	X	X	
SAPN	X	X	X	X	X	
Bescom (India)			X	X		
SESB (Malaysia)			X	X		

Strategic Roadmap Development

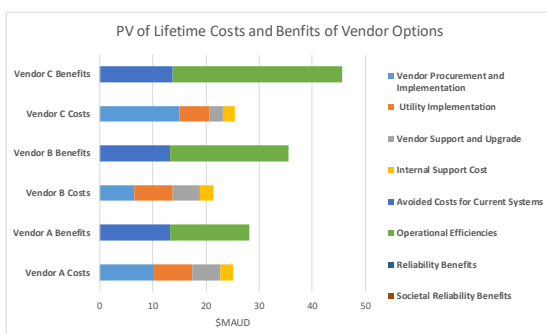
Development of the DMS Strategic Roadmap is an essential first step to understanding how a business intends to operate in the short, medium and long term. It involves a high degree of collaborative working with the client, with key activities including:

- Current State Review
- DMS Readiness Review (data, business processes, technology)
- Target DMS State
- High-level Implementation Timeframe

Business Case

The next step is the development of a business case for the DMS, which will build on the strategic roadmap. This may be revised during the procurement phase but can include:

- Vendor price, on-going support and operating costs for the DMS
- Internal utility costs for implementation and support
- Avoided costs of current DMS systems or interfaces
- Efficiency benefits from process improvements (e.g. switching management instructions)
- Efficiency benefits via applications such as FDIR or contingency analysis
- Reliability benefits from DMS improvements allowing faster restoration

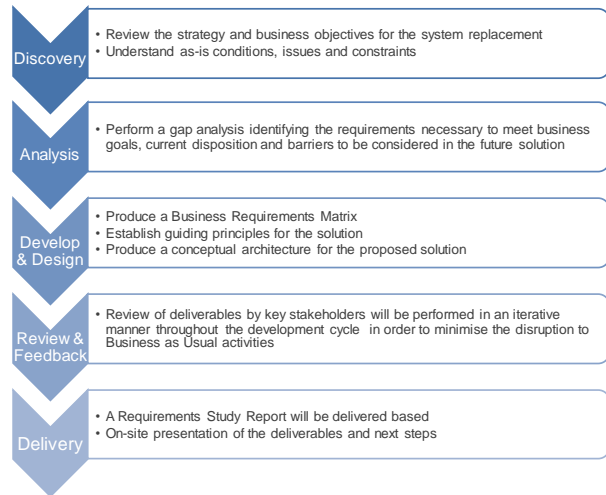


DGA Consulting’s approach is to review each of these cost/benefit areas with the impacted utility personnel and assess the specific impact to the business. This assists in developing an owner for each of the benefits and provides greater confidence that the benefit will be achieved. The DGA Modelling also provides for scenario testing and sensitivity analysis.

Requirement Specification and Conceptual Architecture

The purpose of the Business Requirements phase is to determine the utility’s strategic goals over the life of the proposed system, evaluate existing capabilities and determine the necessary requirements to meet these objectives. The requirements study will use a structured approach as shown in the diagram opposite.

A series of workshops and interviews will capture the stakeholder view on opportunities, needs and wants, thereby defining how the systems would contribute to the business’s success.



The business requirement specification and conceptual architecture will be converted into a detailed technical specification using DGA Consulting’s libraries of functional and non-functional requirements for SCADA/EMS/DMS systems.

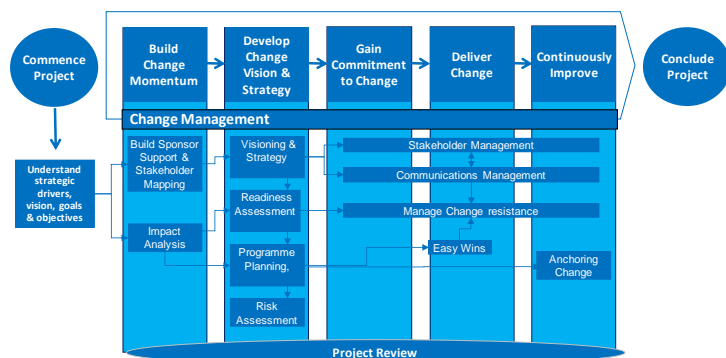
Procurement Support

DGA’s consultants are typically involved in 4 main areas of the procurement process. These are:

- **Bidding Documentation Development** – Development of a suite of tender documents including technical documents and a transparent tender scoring and evaluation process
- **Tenderers Evaluation** – Independent review of commercial and technical responses
- **System Trial** – Applied for short-listed vendors to compare promises with actual capability
- **Contract Negotiation Support** – Negotiation on timescale and scope of delivery.

Implementation and Change Management

Once a vendor is selected the next phase will be the implementation of the system. This will include design work, FAT, SAT, development and configuration activities. There will also be a significant change management activity (shown opposite) to get users on-board with the new systems and processes and often a data cleansing exercise to ensure the DMS is starting with an accurate data set.



DGA Consulting may assist the utility as technical advisor/change manager on a project, but ensure our independence by not being part of the vendor’s project direct team.

Post Project Reviews

DGA’s Consultants have assisted with post project reviews and benefits realisation assessment to inform on the success of the project and consider additional actions that may be required to achieve the promised benefits.