

**CASE STUDY:**  
**Environment Data Modelling**

**Gas Handling Facility**

**Overview**

As part of the terminal's Environment regulatory compliance requirements and expansion strategy, the business unit planned to introduce best practices in SHE Data Management.

Enzen was asked to deliver an integrated Environmental Data Model to aid the transition to best practice SHE data collection, recording & monitoring.

**Highlights**

- Enzen carried out comprehensive scoping of the terminal's SHE Data systems
- Stakeholder Consultations were conducted to outline best-practice Data Modeling Framework
- Enzen developed Environmental Data Model to capture key SHE Data requirements and aid regulatory & non-regulatory reporting

**Environment Data Modelling & Management**

In recent years, Safety, Health and Environment (SHE) compliance has been brought to the forefront of management systems in the UK. Its increasing importance can be attributed to enhanced regulatory scrutiny and standards as well as to growing awareness within organisations.

The client, an LNG importation terminal, sought to develop an expansion strategy consistent with best-practices in SHE data collection, recording and reporting.

**Enzen's Contribution**

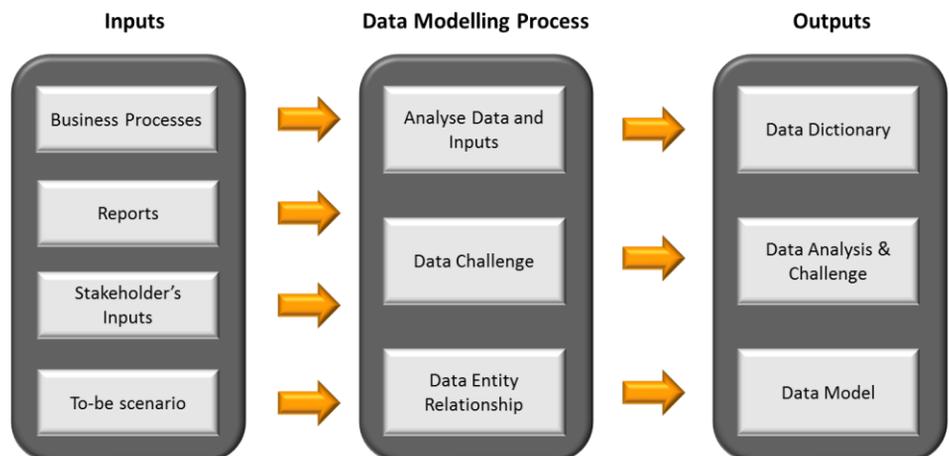
Enzen Global Limited, accomplished knowledge practitioners in the energy and environment sector, has extensive experience in SHE Data Modelling, Environmental Impact Assessment and Environmental Audits & Due Diligence. The Enzen team used this experience and its knowledge-base of the utility sector to optimise the expanding terminal's SHE Data handling and reporting systems.

**Enzen's Engagement Scope**

In order to smooth the terminal's expansion process, which was contributing to increasing data complexity, Enzen offered to facilitate the centralisation of SHE Data into a single repository via the development of a Blue-Print Environmental Data Model. The team's SHE experts were given the responsibility to build an integrated SHE Data Model to optimise collection, monitoring and reporting systems during a 6 month project engagement.

**Enzen's Approach & Solutions**

- Our consultancy team initially prepared the Scope Document of SHE Data for the Business Unit. Subsequently the team analysed and challenged this data in order to build a comprehensive data dictionary and Data Modelling framework :

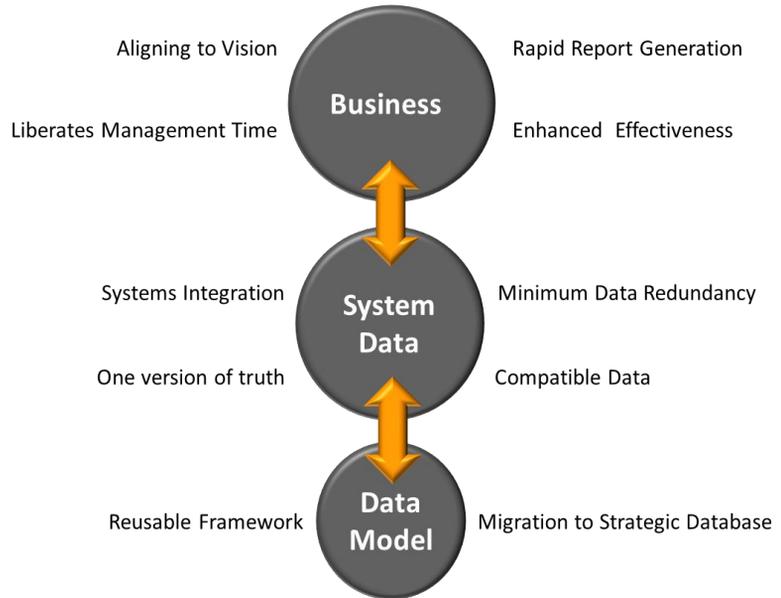


## Key Benefits

- User-friendly, conceptual tool for capture & reporting of key SHE Data
- Integration & Linking of relevant data previously residing in different locations
- Reducing reliance on managerial time & manual effort by circa 40%
- A vehicle which allows management attention to focus more on addressable issues & less on information collation & verification

- Using an entity relationship approach, a structured data modelling exercise was undertaken in order to support generation of regulatory and non-regulatory reports
- Having established the Data Modelling framework, the team proceeded to develop a user friendly front end tool for input data and creation of reports. The conceptual tool captured the key features and requirements of SHE reporting that emerged from stakeholder consultations with the business.
- This data model would become the building block for an enduring IS solution and Carbon based KPI/Balanced Scorecard.

## Data Modelling & Client Benefits



## Enzen Delivered Client-Benefits

- Engaging Enzen as an advisory partner in this strategic assignment provided the terminal with a best practice SHE Data Dashboard for more automated reporting.
- Prior to Enzen's contribution, the terminal's SHE Data was residing in different locations and available in non-uniform formats. Often this data was prone to manual collection errors and duplication of efforts as a result of a lack of integration between the various processes. Via Enzen's customised tool, the terminal was able to introduce integrated environmental data management systems during the crucial and complex phase of expansion.
- This not only reduced reliance on manual effort by close to 40% but also introduced efficiency and consistency in SHE data use, which would in turn had positive impacts on strategy development going forward.

Enzen, through this engagement, has delivered an integrated vehicle for near real time decision-making on Environment and Sustainability related issues .

