



Energy Reporting Model Data Sheet



The model comprises the following elements:

1. UML 2.4.1 Model for [Sparx Systems Enterprise Architect](#) Version 9 format (Energy Reporting Model.eap).
2. Model export in UML 2.2 XMI 2.1 (XML Metadata Interchange) format (Energy Reporting Business Domain Model.xmi). The model imports into compliant UML technology. (Imports into IBM Rational Software Architect, however diagrams have to be recreated)
3. SQL coded statements to build the Energy Reporting Data Model in [PostgreSQL 9.1](#) (Energy Data Model PostgreSQL.sql). (The SQL for other relational databases such as Oracle, DB2, Informix etc can be created using Sparx EA to transform the UML classes, and code engineer the DDL script.)
4. Eureka Works Sample Database in PostgreSQL database backup format (Eureka Works Sample Data PostgreSQL.tar)

Using the Energy Reporting Model:

The [Eureka Works Demo](#) provides an example of a database engineered from the UML model, and populated from a variety of data sources. The Eureka Works demo data sources are hosted on one cloud provider running Postgres services, and the reporting data is hosted on another providing Zoho reporting services.

The sample database is the target for a data centric integration capability to provide custom interfaces from physical data stores containing source data from smart meters, transport and other energy data in relational and xml databases, spreadsheets and other file formats.

A number of software products, such as [Talend Open Studio](#), can be used to develop the specific data centric integration code required to automatically update data periodically to schedule from organization data collections.