Energy Software for Analytics and Reporting

Gabe Sandoval
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Big Data

Utility
Building Asset
BMS
Energy

(Live/Historical Data)
Campus Data Warehouse

(Live/Historical Data)

Utility
Building Asset
BM
Energy

(In Database Analytics/NonSQL)
Campus Data Warehouse

- M&V
- MBCx
- Commissioning

(Live/Historical Data)

Utility

Building Asset

BMS

Energy

(In Database Analytics/NonSQL)

Analytics/FDD
Reporting
Visualization/Dashboards
Utility Billing

Facilities
Campus Life Services
Campus Data Warehouse

(M&V MBCx Commissioning)

(Live/Historical Data)

Utility

Building Asset

BMS

Energy

Haystack
Obix
CSV
BACnet/IP
SQL
OPC
Rest

Analytics/FDD
Reporting
Visualization/Dashboards
Utility Billing

Open API

(In Database Analytics)

OPEN
(Open Project Haystack)
- Standardize semantic modeling of data
- Specification for how to query and exchange Haystack data using HTTP