

CGI Central Market Solutions Facilitating the energy transition



The energy transition and rapid growth of renewable energy sources have created a pressing need for new services, flexibility and real-time information to support efficient market operations. Using our Central Market Solutions (CMS), CGI designs and builds innovative energy market systems that support and accelerate the energy transition.

For over two decades, CGI has been at the forefront of building, implementing and operating complex, high-volume central market infrastructures that lower operating costs, improve reliability and resilience, and deliver more flexible and scalable technologies. We have captured this unique knowledge and experience in our CMS application.

Improving Data Management and Market Facilitation

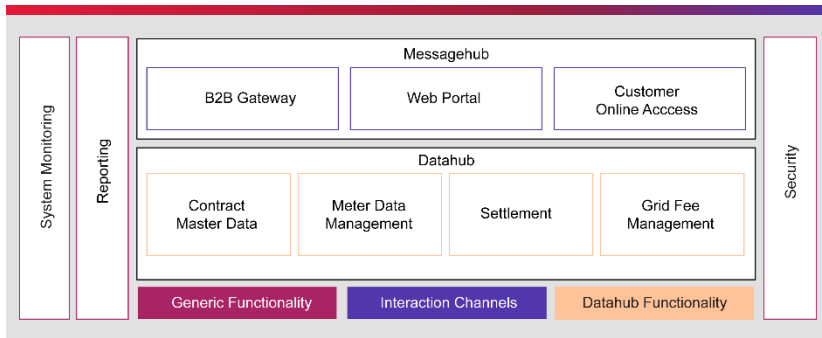
CMS is a modular solution that enables data sharing and communication among all the market parties. It stores information related to smart metering points, consumer contracts and energy measurement data, and offers centralized functionality for grid fee billing and settlement. CMS improves efficiency in data management and market facilitation.

Its highly configurable data model facilitates different markets and maintains attributes and relationships. The low-coding configurable nature of CMS allows the flexibility to cope with rapidly changing markets. By incorporating the Kx for Sensors database, the solution provides world-leading market meter data management processing and a real-time settlement dashboard. It is capable of exceptionally short calculation times for huge amounts data. CMS also embraces open standard third-party technologies to allow effective integration.



CMS is a modular application, with each module performing key functions:

- Message Hub is the single point of access for all users. It supports multiple communication channels and provides access control, system security, single sign on, and audit logging functions.
- Contract Master Data is a flexible register for master data. It can be configured to run all processes that relate to structuring, such as customer switching and master data exchange.
- Meter Data Management acts as the meter data register and implements the processes for meter data validation and meter data exchange.
- Settlement implements all calculation processing for imbalance and balance deviation settlement.
- Grid Fee Billing manages the dynamic tariffs for the distribution networks and calculates the invoices automatically.



Key Benefits

CMS delivers the following key benefits to our clients:

Reduced implementation costs and overall TCO

Designed specifically for energy markets, CMS reduces the costs of adaptation and integration. It's also capable of leveraging the advantages of the cloud, further reducing the cost of infrastructure.

Highly adaptable data model to support your market processes now and in the future

CMS is highly configurable and allows easy adaptation to market changes in daily operations.

World-leading metering data processing performance

The meter data management module supports extremely high-volume metering data, and is capable of ingesting and processing near-real-time data.

Market driven roadmap ensures continued alignment

CGI continuously aligns the CMS roadmap with market developments and our clients' needs through our central market debate event, regular flexibility roundtables and innovation discussions.

Proven implementation processes

CMS uses automated testing on a system and market process-level that is reused and applied to implementation projects.

World-leading metering data processing performance

The meter data management module supports extremely high-volume metering data, and is capable of ingesting and processing near-real-time data.

Time to market

CMS is a modular solution that offering off the shelf components that allow a quick time to market as well as reduced implementation costs.

As important, clients benefit from an experienced partner who understands the business processes and operational aspects in an approach that maximizes their ability to facilitate the ever-changing energy market.

About CGI

Insights you can act on

Founded in 1976, CGI is among the largest IT and business consulting services firms in the world.

We are insights-driven and outcomes-based to help accelerate returns on your investments. Across hundreds of locations worldwide, we provide comprehensive, scalable and sustainable IT and business consulting services that are informed globally and delivered locally.

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