

Sky Energy Consulting, a division of Sky Business Consulting Inc., is a consulting practice focused on the needs of Ontario's utility and energy sectors. Sky Energy's service offering consists of Smart Grid strategy & implementation, including smart meter readiness; Customer Information System (CIS) assessment, procurement & implementation; Asset Management diagnosis & improvement; and Merger & Acquisition transition and integration.

Why Sky?

Electricity Industry Focus

Our consultants have worked closely with the Ministry of Energy, Ontario Energy Board (OEB), Independent Electricity System Operator (IESO), Local Distribution Companies (LDCs) and Retailers in Ontario.

Smart Metering Leadership

Our firm has provided smart metering leadership to LDCs across Ontario, thus laying the foundation for implementing the Smart Grid and achieving the financial, operational and technical benefits from their investments in the short and long term.

Independence

The Sky team has no alignments with product vendors, so our clients always receive unbiased recommendations.

Exceptional Value

Our team consists of only experienced resources from global consulting firms or key industry players. With our lean business model, that means we can pass savings onto our clients, and offer high quality services at competitive rates.

High Reliability

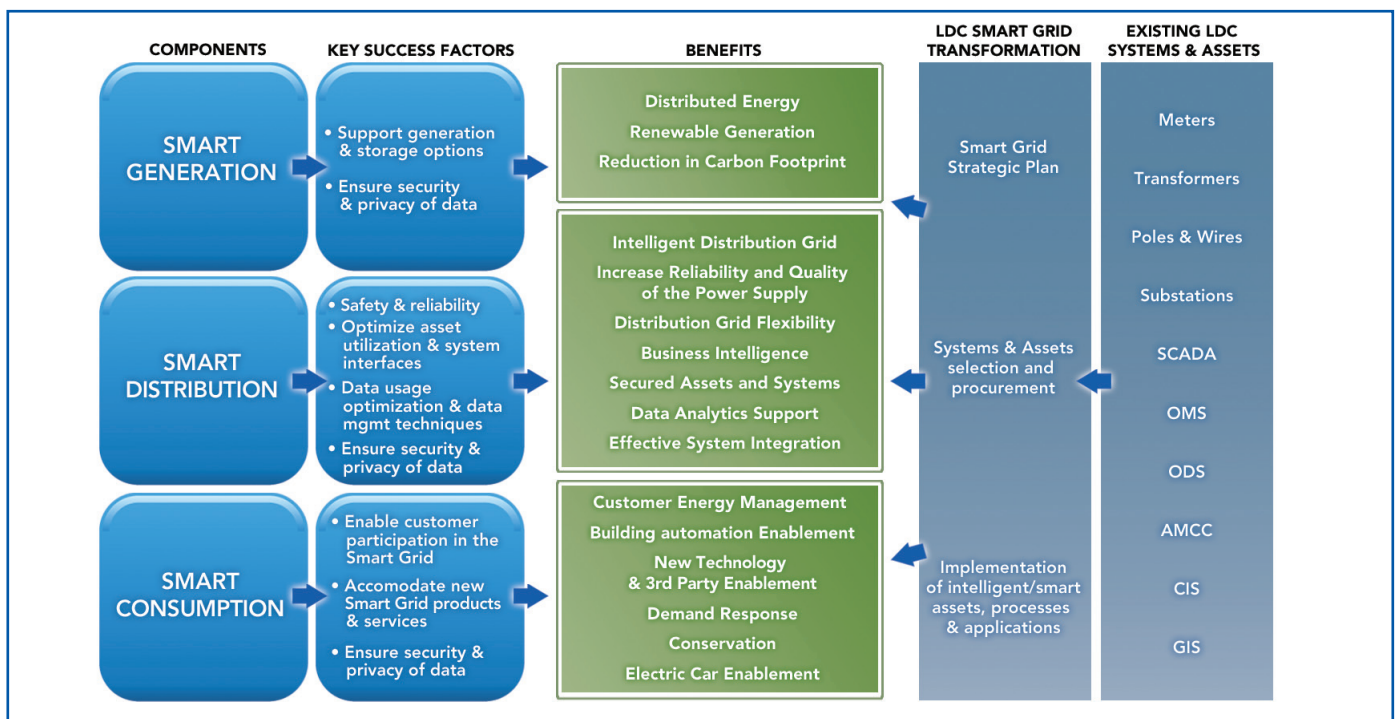
All our projects are delivered on time and within budget. Our clients typically extend their relationship with us recognizing our ability to deliver results.

Best Practice Approach

Clients are serviced with customized methodologies that are based on best practices and key lessons learned.

LDC Smart Grid Model

Sky Energy Consulting has developed an LDC smart grid model which focuses on three components for implementing the smart grid for an LDC: smart generation, smart distribution and smart consumption. The diagram below depicts the smart grid model, including key success factors for achieving a smart grid as well as changes and transformations that an LDC's assets, systems and processes must undergo to achieve the ultimate benefits of the smart grid.



Smart Generation

To achieve smart generation, an LDC must support all sources of generation (e.g. wind, solar, biomass, Micro FIT & FIT, distributed energy resources, distributed storage options, electric vehicles) in its service area as well as enable the security of assets, systems, applications and privacy of data.

Smart Distribution

To achieve smart distribution, an LDC must optimize its asset utilization (e.g. modernize aging assets) to support smart grid requirements (i.e. home automation, distributed energy, grid safety and reliability) and incorporate new technologies (e.g. distribution system automation, distribution management) with existing assets to enable operational longevity and efficiency. In addition, an LDC must optimize its use of smart grid data, employ effective data management techniques and ensure the security and privacy of physical assets and customer data.

Smart Consumption

To achieve smart consumption, a utility must enable the active participation of residential, commercial and industrial loads in their smart grid, accommodate retailer and third party smart grid products and services (i.e. home energy management, electric vehicles and home energy generation) and ensure privacy of customer data.

To effectively implement the three components of the Smart Grid Model, an LDC will need to make technical changes (new technologies, systems, equipment and assets) as well as undergo operational changes (business process reengineering, testing, staff training and customer communication) within its organization.

Our Smart Grid Service Offering

We have the background and in-depth knowledge to provide guidance and support to an LDC's Smart Grid strategy and/or implementation. We have successfully implemented smart metering and time-of-use programs for LDCs across Ontario, thus proving that we are well-equipped to do the same for the smart grid. Our smart grid service offering is comprised of 4 key areas:

1. Smart Grid Strategic Planning & Program Management

2. Smart Generation Implementation

- Procure & select smart grid technologies
- Procure & select systems to enable smart generation
- Asset management diagnostics and solutions
- Business process re-engineering, testing & staff training
- Development and implementation of security & privacy measures

3. Smart Distribution Implementation

- Optimization of Assets – planning, procurement & implementation
- Optimization of System Interfaces – planning, procurement & implementation
- Data Usage Optimization & Data Management Model – planning, procurement & implementation

4. Smart Consumption Implementation

- Enable the participation of residential, commercial and industrial loads in the smart grid
- Accommodate new products and services offered by third parties
- Determine and implement a solution to address the security & privacy of consumption data