



OEB Stakeholder Meeting June 24, 2025 | 11:00AM **DSO** Capabilities

EB-2025-0060

In collaboration with:

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DSO Readiness Strategy

Overview and Background

- About GSC
- Major highlights

Proposed DSO Model

GSC Common Services Platform

Next Steps

- Phase 1: Governance Framework
- Phase 2: DER Services through Aggregators
- Phase 3: DER Services through GSC Services Platform



About GridSmartCity

- Consortium of 18 partner LDCs
- Serving ~1,000,000 customers in 65 communities across Ontario
- More than \$3.48 Billion in assets
- Track record of bridging the need for innovation and infrastructure renewal, with the benefits of collaboration and cost efficiency
- 100%-member participation in developing the DSO Readiness Strategy



Strategy Highlights

Major Highlights

- The GSC DSO Readiness strategy report presents a comprehensive view of the DSO models existing and what the GSC LDCs current state is with respect to moving towards a DSO paradigm.
- > Presents assessment of current state of LDCs with respect to the 9 required DSO functionalities identified.
- Based on the gaps identified, the report highlights the *proposed phased approach* for transition from LDC current state to operational DSO paradigm.
- For phased approach, the report also highlights actionable next steps to progress with indicative timelines to go from 2025 to 2030+
- One of the major recommendations is for GSC to have a Common Services Platform for services transactions and the report highlights the rationale behind the recommendations as well as the functions of the GSC CSP platform.

Comprehensive System Planning

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Evolving System Planning Approach

Identify current System Planning approach across the LDCs

Current Practices

Gaps

Identify the gaps as exist in system planning practices considering DER uptake scenarios, customer behavior changes and more.

New Approach

Identify activities to be included in the system planning practices by all the LDCs.

Standardized Studies and Processes

Identify the process and studies which can be Standardized across all LDCs.

Cost Recovery

Taking advantage of provincial guidance on which system planning activities can be eligible for cost recovery.

Standardized System Planning Process for identifying needs of the system – Distribution Services

Proposed Services Setup

The ideal DSO Model is flexible to evolve, provides standardization across various LDCs, and is cost effective



Primary Functions

Data Collection, Measurement & Verification, Settlement Support

- The platform should be capable of *facilitating data collection and exchange* between the DSO framework entities, namely *IESO, LDC and DER Aggregators*.
- The platform should be capable of *facilitating measurement verification and settlement between LDC and DERA*. The individual settlement of DERs will be done by the DERAs.
- The data for distribution services requested and provided should be easily accessible to all the parties involved through the platform.

DER Aggregation & Dispatch Coordination

- The platform should *registration of DERAs as service providers* and support *selection of DERAs for Distribution or Market services* once they bid for an opportunity.
- The platform should provide capability to *the LDCs as well as IESO to send dispatch instructions to the selected DERAs*. The device level plan for individual DERs remains a responsibility of DERAs.
- The platform should *support multiple communication protocols* for all the data and control signal exchange.

Distribution Services Coordination

- The platform should be capable of *facilitating services and transactions end to end*. It should allow LDCs to *post services, allow the process of bidding and contract execution with the DERAs*.
- The platform should *provide easy access to data* for all the parties to ensure a *transparent and fair bidding and selection process*.
- The platform should be capable of programming Dynamic Operating Envelops as well as Override Control as and when needed to maintain distribution system reliability.

Primary Functions

Market Service Facilitation

- The platform should *support control room communication protocols* to support *a two-way data exchange between IESO and GSC DSO (LDCs)* providing information as requested by IESO *in the required frequency and timeframes*.
- The platform should be able to *communicate and distribution constraints as well as any override controls* issued by GSC DSO to maintain distribution reliability.
- The platform will have capability to adapt to the evolving provincial market rules.

Interoperability & Accessibility

- The platform should *support wide range of data exchange mechanisms, communication protocols, etc. to ensure interoperability* with existing LDC systems as needed.
- The platform should provide *simple and intuitive interfaces* for LDCs, DERAs as well as IESO to connect and communicate with the platform.
- The platform should have the *capability of scaling up* so that the LDCs can join as and when they are ready to explore DER Distribution services as well if the GSC has new member LDCs in the future,

Proposed Services Progression



Near-Term Focus: Governance Framework

GSC Proposes 8 focus areas to advance in 2025



Spotlight: Financial Analysis

Major Questions and Considerations

- Identify how to *fund and capitalize* the DSO related investments.
- **Differentiate** LDC operational as well as DSO specific investments to pursue targeted regulatory approvals remuneration models.
- Identify elements eligible for *cost recovery*, for example system planning efforts for identifying NWS.
- Identify *compensation mechanism and frameworks* for distribution services and underlying studies required to frame the fair compensation.
- *Identify the appropriate stakeholders* to develop a standardized and robust financial model



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