# Stakeholder Feedback and IESO Response

## Formalizing the Bulk System Planning Process – October 19, 2021 webinar

Following the October 19, 2021 engagement webinar on the IESO's Bulk System Planning Process, the IESO received feedback on stakeholder involvement in the process, as well as on the planning information and data released with the West of London bulk study report.

The IESO received feedback from:

- Energy Storage Canada (ESC)

This feedback has been posted on the Formalizing the Integrated Bulk System Planning Process webpage.

### Notes on Feedback Summary

The IESO appreciates the feedback received from stakeholders. The IESO has provided a summary below, which outlines specific feedback or questions for which an IESO response was required at this time.

## Involvement in the process

Do the proposed stakeholder interaction touch-points throughout the bulk system planning process satisfy your need to be informed, and to participate by providing advice and/or feedback to the IESO?

| Feedback | IESO Response |
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| As part of the OEB's Regional Planning Process Advisory Group (RPPAG), ESC understands there is discussion about requirements for IESO filing to the OEB on bulk system plans. In particular, bulk system plans can result in multiple regulatory applications & investment actions. ESC is interested to understand from the IESO's view how the formalized bulk system planning process will be integrated into regulatory procedure requirements. | The RPPAG recommendations to the OEB speak to the coordination between bulk planning and other levels and types of energy infrastructure planning. The IESO agrees that more open coordination among these inter-related processes can benefit the OEB in carrying out its mandate. Furthermore, rate-regulated investment actions stemming from bulk planning recommendations will be subject to OEB regulatory review requirements. To support regulatory procedure requirements, the IESO, in keeping with its longstanding practice of supporting regulatory procedures, will continue to share information to facilitate the relevant OEB processes. |

Do you have advice on how our proposal could make it clearer how generation vs. transmission triaging decisions will be done?

| Feedback | IESO Response |
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| ESC recommends that a process flow chart be created for the triaging decision making. Further, ESC strongly recommends that the IESO should submit for regulatory review any acquisition decisions as part of the triage decision making process. | The IESO has made a commitment to transparency in decision-making that leads to bulk system planning recommendations. This includes communicating the factors considered in triaging bulk system issues. We welcome the feedback regarding how any such decision factors will be applied, including the use of process flow charts and/or other decision support tools. |

Are there other ways that you would like to be engaged on bulk system issues and/or plans and activities intended to address them?

| Feedback | IESO Response |
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| The IESO has limited - to no experience in non-wires solutions. ESC recommends that the IESO establish a technical working group with representatives who have non-wires solutions expertise to advise the IESO during bulk planning process activities. | The IESO recognizes the importance of non-wires alternatives including through its conservation frameworks and related conservation programs, innovation funding, demand response, and storage, and is working actively to develop a better understanding of the scope of potential solutions, such as through pilot and demonstration projects such as the York Region Non-Wires Alternatives Demonstration Project. In addition, the IESO's Resource Adequacy Framework is active in developing procurement mechanisms that would allow a broader range of resource types to participate in solutions to bulk system issues.<br><br>The IESO will take the recommendation to establish a technical working group under advisement for future consideration. |

## Process outcomes and information

Do you have specific feedback on the planning information and data released with the West of London bulk study report?

| Feedback | IESO Response |
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| ESC continues to stress that a formalized bulk system planning process must commit to transparent publication of planning data.<br><br>Planning data includes:<br><br>• Existing demand and demand outlook in a readable format, including connection application for new demand summary<br><br>• Existing supply resources and key attributes (e.g., capacity, energy limitations, fuel type, ownership, contract/rate-regulated status) | Transparent publication of data is central to the IESO's bulk planning as well as the real-time operation of the IESO controlled grid. The data that is regularly maintained on the IESO's website includes data pertaining to existing demand, the demand outlook, existing supply resources, and existing system capabilities. Where there is a benefit to enhancing the granularity (e.g., hourly) and/or format to improve stakeholder understanding around system issues and costs, the IESO is committed to continuous review and improvement.<br><br>For the benefit of all interested stakeholders, the comprehensive demand and supply data available on the ieso.ca website is summarized as follows. Note this |

| Feedback | IESO Response |
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| • Existing system capability, and example of system constraints with 8760-hour granularity<br>• Cost assumptions for potential viable solutions including references and methodology | is a sampling of relevant system information that is published by the IESO. Additional information can be found on ieso.ca for the system, as well as more detailed data published as part of various bulk system plans, studies and regulatory submissions which are in the public domain.<br>• Ontario historical electrical demand data: https://www.ieso.ca/en/Power-Data/Demand-Overview/Historical-Demand<br>• Existing (real-time) demand: https://www.ieso.ca/en/Power-Data/Demand-Overview/Real-time-Demand-Reports<br>• 18-month demand outlook (published as part of the IESO's Reliability Outlook): https://www.ieso.ca/en/Sector-Participants/Planning-and-Forecasting/Reliability-Outlook<br>• 20-year demand forecast (published as part of the IESO's Annual Planning Outlook: https://www.ieso.ca/en/Sector-Participants/Planning-and-Forecasting/Annual-Planning-Outlook<br>• Summary of new demand connection applications: https://www.ieso.ca/en/Sector-Participants/Connection-Process/Application-Status<br>• Ontario's present and historical resource supply mix, including new and retired generation since market opening, and monthly and yearly energy outputs by fuel type: https://ieso.ca/en/Power-Data/Supply-Overview<br>• Hourly Generator Energy Output and Capability Report: https://www.ieso.ca/en/Power-Data/Data-Directory#Generator-Output-and-Capability<br>• IESO Active Generation Contracts: https://ieso.ca/-/media/Files/IESO/Document- |

| Feedback | IESO Response |
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| | Library/power-data/supply/IESO-Active-Contracted-Generation-List.ashx<br>• Energy Procurement Programs and Contracts: https://ieso.ca/en/Sector-Participants/Energy-Procurement-Programs-and-Contracts/Overview<br>• Cost assumptions used for the West of London bulk study are provided in Appendix E of the "Need for Bulk System Reinforcements West of London" report: https://www.ieso.ca/-/media/Files/IESO/Document-Library/regional-planning/southwest-ontario/WOL_Bulk_Report_Final_20210923.ashx |
| The data release for the West of London bulk study is a good start but the IESO must go further. The data published by the Alberta Electric System Operator (AESO) is a good reference for the IESO.<br>• Hourly data for planning areas (there are over 40 areas within 6 regions of the province)<br>• Hourly metered volumes by generating asset<br>• Hourly metered volumes by generation type<br>• The AESO ETS provides offer data for all market schedule intervals, a valuable insight into system capability | The IESO thanks ESC for the feedback specific to the West of London bulk study. While the IESO already provides a number of comprehensive system level datasets analogous to the AESO examples provided, the IESO is committed to continuous improvement in terms of what and how planning data is provided to stakeholders.<br><br>For reference, various related data is presently available on the ieso.ca website at the link provided below. This information includes Ontario's hourly zonal demand, hourly generator output and capability, hourly generator output by fuel type, hourly Ontario energy price, among many other types of data.<br>• https://www.ieso.ca/en/Power-Data/Data-Directory |

## General Comments/Feedback

| Feedback | IESO Response |
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| Overall ESC supports the direction the IESO is taking with the Bulk Planning Process and applauds the effort by the IESO. | The IESO thanks ESC for its interest and feedback. |