

Planning Update

Stakeholder Advisory Committee

February 11, 2020

SAC Input

- Input from SAC is requested to inform:
 - Annual Planning Outlook (APO) development and Technical Planning Conference
 - Approach to engagement for 2020 planning activities
 - Approach to Resource Adequacy Engagement, Reliability Review Engagement, and development of the next APO

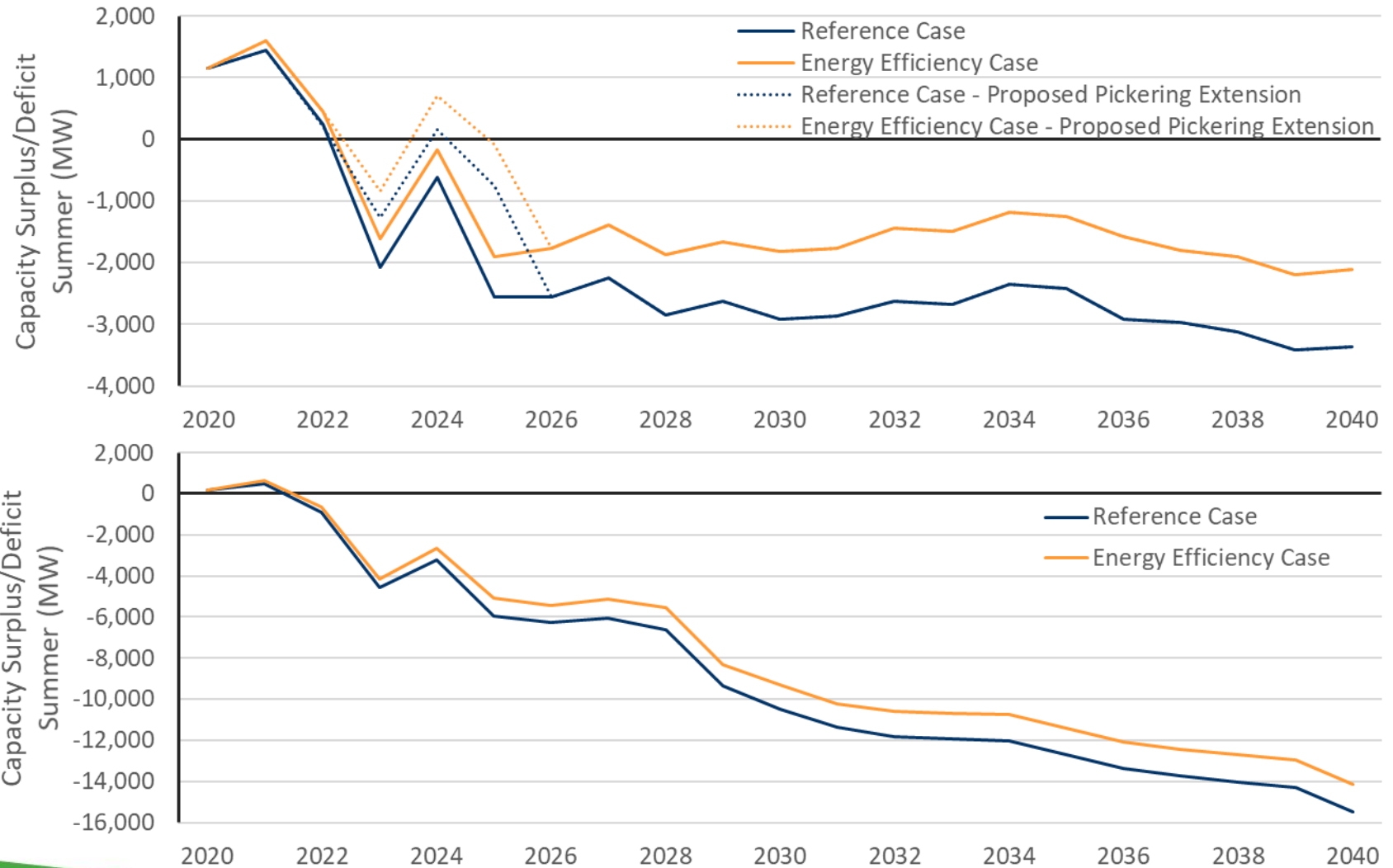
Background

- The 2018 Technical Planning Conference kicked-off a new approach of planning, enhancing transparency to support market development
- Three themes emerged: increase **transparency**, ensure **consistency**, and guide the evolution of planning outlooks with frequent, targeted **engagement**
- Stakeholder engagement sessions in early 2019 guided development of the Annual Planning Outlook (APO)
- The next Technical Planning Conference will seek stakeholder feedback on the first APO and kick-off engagements to guide development of the next APO

APO Results

- Preliminary results presented at August 14, 2019 SAC Meeting
- Report including methodology, data tables, and supplemental information published on January 22, 2019
- The only significant change since the preliminary results presented to SAC is the impact of extending operations at Pickering Nuclear Generating Station into 2025, illustrated on the following slide

Resource adequacy outlook: Capacity



2020 Planning Engagement Timeline

★ Technical Planning Conference (Feb 19)

★ Reliability Review Engagement Launch

APO (Q4) ★

Continued Engagement

Winter

Spring

Summer

Fall

Reliability Review Engagement

Annual Planning Outlook

A view of Ontario's electricity system needs

JANUARY 2020

5.1 Capacity Needs, Uncertainty and Planning Criteria

It is important to recall that the capacity need identified in Chapter 4 is the result of a probabilistic risk assessment. This accounts for a fair degree of uncertainty in the key parameters of this outlook. However, any forecast of this type is based on a range of assumptions for which all uncertainty cannot be accounted.

One such variable is the set of planning assumptions and reliability criteria used in this analysis. The IESO has identified certain aspects of these assumptions and criteria which, if revised, may change the results of this analysis. Over the coming year, the IESO intends to conduct a review of its reliability criteria.

- As we transition from a period of surplus, we will review our planning and operational assumptions to determine if there are areas (with rationale) where our approaches can be revised to better reflect system capabilities
- Process will be documented appropriately and transparently
- The results should be reflected in the next APO

2020 Technical Planning Conference

- The second Technical Planning Conference will be held February 19th and include:
 - Review of current APO
 - Solicit stakeholder feedback on improvements for the next APO
 - Introduce Reliability Review engagement
 - Update on the bulk system planning stakeholder engagement

Reliability Review Engagement

- Focus of this engagement is on the IESO's approach to meeting NPCC Directory #1 for resource adequacy assessments, which states:

Make due allowances for demand uncertainty, scheduled outages and deratings, forced outages and deratings, assistance over interconnections with neighbouring Planning Coordinator Areas, transmission transfer capabilities, and capacity and/or load relief from available operating procedures.

Next Annual Planning Outlook

- The next APO will build on the recently released APO and include zonal adequacy assessments
- Additional data and analysis will be informed by stakeholder consultation and could include operability needs, grid-level demand forecast, or other items that emerge from stakeholder consultation

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