

Feedback Form

Electricity Planning in the West of London Area – November 26, 2020

Feedback Provided by:

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Windsor-Essex Integrated Regional Resource Plan Addendum Study

Topic	Feedback
What feedback do you have regarding any of the options proposed?	<p>Both the City of Windsor and the County of Essex have developed community energy and climate actions plans with economic, environmental, and efficiency goals for 2041 and 2050. The City of Windsor plan was unanimously approved by the City Council in 2018, and the County of Essex Plan will be presented to the County Council for approval in April 2021. The IESO was represented on the Community Task Forces that oversaw and guided the development of both plans. Both plans include detailed strategies for the transportation, residential, commercial, institutional municipal, industrial and Greenhouse Growers (Essex only) sectors. Both communities have passed some form of climate emergency declaration.</p> <p>It would useful to understand the degree to which the Windsor-Essex community energy and climate plans have been factored into the IESO Electricity Planning.</p>

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<p>What other information should be considered in the continued development of these solutions leading up to the recommendations?</p>	<p>The following strategies that are included in these plans being created locally and have significant impacts on the electricity demand in the Windsor-Essex Region:</p> <ol style="list-style-type: none"> 1. In-boundary (behind the meter) photovoltaic in Windsor 2. In-boundary (behind the meter) photovoltaic in Essex 3. Combined Heat & Power (CHP) associated District Energy services expansion in Windsor 4. CHP associated with new District Energy services in Essex 5. CHP associated with on-site, or near-site, energy services to greenhouses in Essex 6. Residential and Non-Residential energy efficiency retrofits in Windsor 7. Residential and Non-Residential (including existing greenhouses) retrofits in Essex 8. Electrification of public and private transportation in Windsor and Essex. <p>This creates a mix of impacts on the electricity demand. There is significant avoidance through various efficiency measures. The new PV is substantial, but clearly not-dispatchable. The CHP additions are both substantial and potentially dispatchable. The transportation is a new electricity demand of some scale. By 2041, these impacts combined are at least the equivalent of 500MW avoided or dispatchable capacity. The plan in Windsor was developed before the climate proposition passed, the one in Essex followed the passage of their proposition. Both plans have identified areas where the strategies could be intensified to further reduce the energy use and emissions impacts, while supporting positive economic development.</p> <p>For your consideration:</p> <ol style="list-style-type: none"> 1. The above estimate of at least 500MW impact is based on a detailed strategy-by-strategy, district-by-district, sector-by-sector, and year-by-year, set of assumptions. Both the City and County would welcome a detailed dialogue with IESO to maximise the alignment between the Regional Plans and the IESO electricity planning. 2. Assuming the City and County succeed in delivering their Community and Regional Energy Plans, there will clearly be technical and economic benefits for the provincial electricity supply. The County and Region would welcome a dialogue to ensure those benefits were realised including identifying areas for joint actions and resourcing.

West of London Bulk Study

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General Comments/Feedback