

Program	Key Findings	2016 EM&V Recommendation	Impact	IESO Response
Industrial Accelerator Program	None of the Measurement and Verification (M&V) Plans for the five projects completed at the largest IAP participant's facility included production as an independent variable.	Consider a requirement that program staff and technical reviewers incorporate an energy index (kWh consumed per unit of production) perspective into EM&V plans. This allows savings estimates to be production-normalized when plant operations change over the baseline and performance periods.	Low	Production is always considered when developing Measurement and Verification Plans. There are however many cases where production has no statistically significant impact on energy use. Typically this occurs where the efficiency improvement measure is related to utility systems such as compressed gasses and steam-to-power, for processes that run 24/7 365
Industrial Accelerator Program	The M&V Plans for IAP Retrofit projects typically assume an 'early replacement' perspective which assumes that the replaced equipment could have been operated for the 15-20-year life of the efficient measure.	Consider including a participant cost in the baseline assumption. Large process equipment can often be maintained for 30-40 years, but there is an upkeep cost to do so. By installing new efficient equipment, participants are avoiding the material and labor costs to upkeep old inefficient equipment.	Low	Typically the difference between the costs of maintaining existing equipment vs maintaining the new equipment is negligible and is therefore not considered. There are certain situations where the existing equipment would require a major overhaul to extend its useful life, and this is generally considered in the baseline assumptions. The IESO will ensure that the Technical Reviewer continues to use this approach.
Industrial Accelerator Program	Baseline assumptions for behind the meter generation projects are poorly documented.	Require that M&V Plans for BMG projects include a discussion of the assumed baseline condition and explore the technical alternatives participants had other than installing generation equipment.	Medium	Typically, the size of the generation projects for IAP customers is orders of magnitude larger than any energy efficiency measures that could be explored. Currently the program rules only require that alternatives to a proposed measure are explored in a study, if applicable. Adding a review of alternatives will be added to the review process, where deemed applicable, on a case-by-case basis.
Industrial Accelerator Program	Changes to the provincial Process & Systems Upgrade Program (PSUP) delivery by LDCs that are being contemplated are likely to be highly relevant for IAP's Process and Systems subprogram. Even if IAP does not debate or provide comments, the team should assess what impact changing the program requirements would have on customers if IAP were also to make those adjustments, and if any other changes beyond what the working group is considering are warranted.	Preliminary Process Recommendation: Make IAP staff part of the working group redesign process, especially for PSUP.	Medium	IAP staff have been part of the PSUP redesign process and have provided input at all stages.