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Accurate meter data needed for homes with Solar PV

Thank you for the opportunity to comment on long term building decarbonization.

California will struggle to decarbonize our existing building stock if we are unable to do cost-effective analysis of the energy use of these buildings. Smart meter deployments and the IOU's adoption of Green Button Connect (GBC) standards makes this possible today... except for homes with Solar PV installed. This is because PV generation confounds the consumption data, and GBC is not supported by PV installations.

Access to reliable smart meter data is revolutionizing the way California does residential energy efficiency through the new Pay for Performance (P4P) programs. For example, such access enables low-cost & remote identification of high plug load energy use (a growing percentage of residential loads) and various energy hogs like continuous hot water recirculation pumps, which waste copious amounts of natural gas and electricity.

However, this type of "smart" analysis of building efficiency is unavailable to homes with Solar PV. Given the 2020 mandate for Solar PV on all new homes, the size of this excluded group will grow.

We urge the CEC to address the issue of accurate and accessible Solar PV meter data in their long term planning for building decarbonization.