

Grid Modernization Pennsylvania Highlights

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Some Highlights of Grid Modernization in PA

- More than 25% of PECO distribution network is 4 kV, which causes voltage rise problems for interconnected solar inverters; however, PECO is slowly upgrading these lines to 13 kV and 33 kV. (No other PA utility has 4 kV distribution lines)
- Smart meters or AMI meters have been installed in most of PA for more than 10 years (giving utilities real time voltage and kWh info at the meter; offering customers to see their hourly usage from a couple days earlier, etc.)
- AMI meters have helped with assessing interconnection applications for solar inverters, by utilizing smart inverter functionality settings, such as power factor, volt/var, etc. (i.e., real vs reactive power)
- Smart inverter technology is well underway in Pennsylvania, with PECO and PPL already implementing smart inverter functionality over the last several years as a solution to interconnection limitations and enhance network reliability. This practice should be expanded to the other EDCs in PA. (PPL has an aggressive DERMS program running several years now)
- PA PUC recently (2023) ordered a policy statement on proposed guidelines for usage of electricitystorage assets as electric distribution assets in the Commonwealth
- PA PUC motion (2023) for the PUC to prepare advance notice for any relevant rulemaking regarding revisions of PUC regulations/policy statements in order to align with FERC 2222, and to consult with other Commissions in PJM region. Opens comment period on DERs, interconnection, double counting review, etc.
- PA needs : Hosting capacity maps and a comprehensive Integrated Distribution Plan (IDP)