IEEE 2030.10-2021

IEEE Standard for DC Microgrids for Rural and Remote Electricity Access Applications

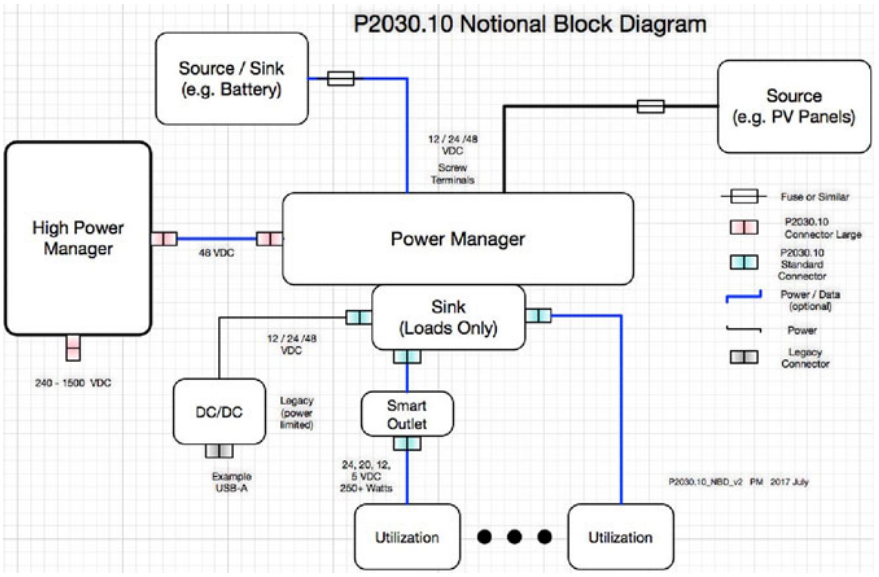
Join us for a lunch Session on DC Microgrids

Thursday June 9, 2022, at 7 pm PDT

Live Stream from Seattle Washington

The design and operation of a dc microgrid for rural or remote applications based on extra low voltage dc (ELVDC) to reduce cost and simplify stability are discussed in this standard. Such microgrids are typically operated without connecting to a nation's electric power system.

The purpose of this standard is to address the needs of the electrical power industry to provide access to electricity in areas where a national grid infrastructure may not be available. DC microgrid applications can also provide power where infrastructure costs or other issues prohibit connection to the national grid even in places where a national grid is available. This standard provides the framework to allow for deployment of distributed generation, storage, and use of electricity based on identified requirements and existing technology. Further, it has the goal of facilitating the use of clean renewable generation of electricity in these applications. The most important use of these microgrids is to supply electricity to people in remote locations without access to the primary ac grid. Low cost and safety are critical. Simplicity and reliability are important to their needs as well.



Paras Loomba, Founder at Global Himalayan Expedition (GHE) which is a social impact enterprise that is focused on providing clean energy, digital education & Livelihood access for remote off-grid communities in the Himalayas. For the past eight years, GHE has been instrumental in electrifying over 152 remote off-grid Himalayan villages with installation of over 1540 Solar microgrids. These villages are located at an average altitude of 12000 ft, above sea level. For last few years, GHE has been working on creating entrepreneurial models in these high-altitude areas, advocating use of energy efficient products, creating Solar Mountain Homestays that would serve the base of the pyramid customers and eventually providing stimulus to local economy, reducing local emigration, and preserving age old cultural Himalayan heritage. In addition to the electrification work, GHE has also setup state of art digital experiential learning centers for students of these remote mountainous communities. Find out from our Code Standard experts on Electricity Access Applications for DC Microgrids both Rural and Remote.

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