Multi-bus DC microgrid

In this paper, a novel microgrid (MG) concept suitable for direct current (DC) multibus architectures is depicted. Multibus feature is improved in ...

At first, configuration of Hybrid (Alternating current/direct current) AC/DC Micro grid (MG)DC sub-grid (SG) is designed and then a droop control method based on incremental cost is ...

Abstract: In multi-bus DC microgrids, where each bus connects a cluster of distributed generators (DGs), the control objective is to ensure voltage regulation and current sharing among ...

multi-criteria decision analysis (MCDA) provides a systematic approach. In this study, six distinct DC microgrid configurations are defined as potential alternatives: unipolar, bipolar, mul.

In this article, an operation mode and power regulation strategy for multi-PV islanded DC microgrid based on two-layer fuzzy control are proposed to address the challenges in conventional ...

Abstract: It is well known that accurate voltage regulation and current sharing are conflicting control objectives for DC microgrids. By taking electrical network into consideration, this paper analyzes the ...

From the perspective of a secondary disaster chain, this approach is particularly crucial when considering the interconnected nature of multi-type ...

A multi-bus DC microgrid architecture designed for efficient energy distribution and management shown in Fig. 3. It features multiple interconnected DC buses, each integrating specific ...