|  |  |  |  |
| --- | --- | --- | --- |
| **Title:** | Coordination Control of a Hybrid Ac-Dc Micro-grid at Different Generation and Load | | |
| **Author(s) Name:** | Rubel Mahmud, Raja Rashidul Hasan, Md.Tahsinur Rahman, Rasel Mahmud, Saugata Roy | | |
| **Contact Email(s):** | hemal@aiub.edu | | |
| **Published Conference Name:** | 2015 International Conference on Advances in Electrical Engineering (ICAEE) | | |
| **Type of Publication:** | Conference | | |
| **Volume:** | NA | Issue | NA |
| **Publisher:** | NA | | |
| **Publication Date:** | December 2015 | | |
| **ISSN:** | ISBN:978-1-4673-9696-7 | | |
| **DOI:** | 10.1109/ICAEE.2015.7506784 | | |
| **URL:** | https://ieeexplore.ieee.org/document/7506784 | | |
| **Other Related Info.:** | NA | | |
|  | | | |

|  |  |
| --- | --- |
| **Abstract:** |  |
| The hybrid micro-grid is developing because of  providing reliable electricity from renewable energy sources.  This paper introduces hybrid AC/DC micro-grids which will help  to develop distribution generation system and the interconnection  between distribution generation and customer. Here, a hybrid  smart micro-grid system is designed in MATLAB (SIMULINK)  with some renewable energy sources (wind, PV system, fuel cell).  This system will have the ability to deliver electrical energy on  both micro grids variation of generation and load. Different  coordination control systems are proposed for assuring stability  under various generations and load conditions. The simulation  results show proper power sharing among AC micro-grid, DC  micro-grid and utility grid. AC and DC bus voltages remain  steady both in autonomous and grid-tied mode. | |