



## Frequency and Voltage regulation of an Islanded Microgrid

By Nduwamungu, Aphrodis

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | A novel control strategy addressed to optimally regulate both voltage and frequency in islanded network has been implemented. In particular, by using droop control and PQ controller together for controlling different micro sources in order to regulate frequency and voltage for guaranteeing the system frequency and voltage stability in addition, the approach of persevering the storage system which is allowing to intervene in economic dispatch in order to satisfy load demand in case of imbalance between generation and load demand. Eventually storage system will participate also in controlling charge and discharge mode at the same time to increase life time of storage system in order to avoid some technical problems regarding to the voltage and frequency deeply drop. Islanded microgrid stability is assured without use of remote communications between different points of system. So, this allows the complete management of extended system in which remote connections are not appeared or temporarily out of service. | Format: Paperback | Language/Sprache: english | 112 pp.

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