

Research Article

Optimization of Distributed Energy Resources in Distribution Networks: Applications of Convex Optimal Power Flow Formulations in Distribution Networks

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The increasing penetration of distributed energy resources (DER) has imposed several challenges in the analysis and operation distribution networks. In the last decade, the implementation of battery energy storage systems (BESS) in electric networks has caught the interest in research since the results have shown multiple positive effects when deployed optimally. However, a complex formulation of the optimization problem regarding DER implementations can easily become nonconvex, thus limiting the scope of the results (quality) and affecting the computational efficiency. In this paper, convex formulations of the optimal power flow (OPF) problem for DER (PV and BESS) installations in San Andres distribution network were implemented to minimize power losses. Four main simulation cases were established covering convex power flow analysis, convex optimal power flow to locate and size dispatchable and nondispatchable DER (PV) with demand and irradiation profiles, and the inclusion of aggregated and distributed PV and BESS systems. The computational realization of those formulations was made with three different software packages: CVX in python, CPLEX, and MATLAB (MATPOWER/PSO). The results show that installing DER capacity (both PV and/or BESS) can substantially improve the power losses in distribution networks, especially if considered distributed instead of aggregated, achieving reductions up to 75% for power losses and up to 57% for conventional generation utilization. Besides power losses, it was observed that optimal DER (PV and BESS) implementations behaved similarly as demand response signals do, potentially increasing economic benefits for DISCOs. In terms of computational efficiency, convex formulations help substantially to reduce computation times, especially if scalability is to be considered when distributed DER installations were studied.

1. Introduction

The functioning structure of electricity supply has been undergoing a transformation in the last two decades mainly due to the development of newer energy generation technologies with either significant reductions in associated costs, considerable increases in efficiencies or both [1]. This transformation is based on the decentralization in the direction of the energy flows, in which big and centralized power plants are used to supply entirely the energy through transmission and distribution grids to the consumer, whereas it is nowadays possible to find not only consumers installing generation capacity for self-consumption but also the capacity aggregation from clients in the distribution to supply external demand or to provide

ancillary services. Technically speaking, this paradigm shift takes place mainly in the distribution; therefore, distribution companies (DISCOs) face the challenge of adjusting their operations given new actors, regulations, and technologies, to turn a traditional passive operational framework into a more active one [2].

The role of distributed energy resources (DERs) in these transformations has been primordial, especially with the implementation of photovoltaic (PV) solutions paired with storage (mainly battery energy storage systems (BESS)) to mitigate uncertainty in primary energetic resources [3], thanks to the substantial reduction in costs (around 80% in levelized cost of energy (LCOE) for PV and Lithium-Ion BESS in the period 2010–2018) bringing these technologies not only within

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communicate using APPN as well as TCP/IP. This state-of-the-art networking tool also covers in detail connectivity enhancements to mainframe applications using Token Ring and Ethernet local area network communications. If you're a computer professional involved with enterprise computing in either a large or small corporation, this new book will give you the hands-on skills needed to take advantage of the latest developments in SNA networking. Data Communications Using Object-oriented Design and C++ Anil Ananthaswamy, 1995. This example-laden book/disk combination is a practical resource for communications professionals who are interested in the nuts and bolts of implementing data communications systems using object-oriented design in C. The author illustrates such fundamental data communications concepts as layering, flow control, sliding window protocols, and error detection and recovery. Digital Broadband Networks & Services Bertil C. Lindberg, 1995. This unique reference provides a complete overview of the technology, implementation issues, and markets for digital broadband technology, the next level of networking designed to support the current explosion in imaging applications, interconnected LANs, ISDN, and optical fiber technologies. An all-in-one information-packed source useful for all IS professionals considering implementing broadband technology. *The McGraw-Hill Internetworking Command Reference* Ed Taylor, 1995. A companion reference to the author's *Internetworking Handbook* that provides network managers a single source for all the major multivendor software commands. File structures of UNIX, MVS, DEC OS/400, etc., and all the most frequently used commands included in this one-stop indispensable reference. **Introduction to ATM Networking** Walter Goralski, 1995. Here's an in-depth technical look at the architecture and advantages of the hottest communications technology available: Asynchronous Transfer Mode (ATM). Focusing on design and implementation, the book provides insights into ATM forum recommendations as it covers the capabilities of ATM and much more. It also includes coverage of IBM's Packet Transfer Mode (PTM). **Computerworld**, 1988-02-01. For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site, Computerworld.com, twice-monthly publication, focused conference series, and custom research form the hub of the world's largest global IT media network. TCP/IP and Related Protocols Uyless D. Black, 1995. This new edition clearly explains all facets of TCP/IP and the many protocols that operate within these two standards. It's written for anyone either using or managing data communications systems and networks. Updated coverage includes resource records (RR) for DNS, discovery services, messaging in the Internet, and more. **McGraw-Hill LAN Communications Handbook** Fred Simonds, 1994. If you want to take advantage of all the power and versatility of local area networks (LANs), this book will show you how to do it in a logical, step-by-step manner. Included is complete information on LAN hardware and software that will enable you to decide if you need a LAN and, if so, how to go about purchasing, installing, and using it effectively. The McGraw-Hill LAN Communications Handbook defines the key terms and components of LAN technology and clearly shows how LANs can contribute to productivity, creativity, and competitive advantage in the workplace. You'll get an objective overview of the strengths and

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