

Power System Planning Technologies and Applications: Concepts, Solutions and Management

By Fawwaz Elkarmi

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Planning is an important function of the management of any business, providing knowledge of future prospects and enabling prudent and appropriate decision-making. Planning is especially critical for power systems, since electricity is a fundamental part of modern societies and many conventional electrical energy resources currently in use are limited.

Power System Planning Technologies and Applications: Concepts, Solutions and Management focuses on the technical planning of power systems, taking into account technological evolutions in equipment as well as the economic, financial, and societal factors that drive supply and demand and have implications for technical planning at the micro level. With this book, researchers, practicing engineers, regulators, policy makers, and investors will have a better understanding of the intricacies of power system planning and, therefore, improve their decisions about the future.

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Editorial Review

Review
This is a comprehensive and well written book that practically covers all aspects relating to electrical power systems analysis and planning. *--Hisham Khatib, past-Chairman of the Jordan Electricity Regulatory Commission and Honorary Vice Chairman of the World Energy Council.*

About the Author

Fawwaz Z. Elkarmi is Associate Professor and Deputy Dean at Amman University/Faculty of Engineering, freelance consultant, energy/electricity expert, and trainer. Dr. Elkarmi worked in government, para-government, and private sectors for 25 years in Jordan and 9 years abroad (Kuwait and USA). He holds a Doctor of Engineering degree from Texas A&M University, 1981. Dr. Elkarmi is a registered "Expert" engineer with the Jordan Engineers Association, a Senior Member of IEEE, and a Chartered Engineer with IEE. Moreover, he is a member of the Institute of Management Consultants (IMC) and holds a Certified Management Consultant (CMC) title. Dr. Elkarmi, in addition to teaching full-time, conducts training in Jordan and abroad in strategic planning and business planning, project evaluation, performance improvement, start-up businesses, professional management consulting, electrical system development, tariff studies and investment planning, load research, energy and demand forecasting, demand side management, energy efficiency, energy conservation, environmental impact assessment, process optimization, and new product development. He also provides consultation in business development, feasibility studies, organizational re-engineering, business turnaround, project appraisal, and investment assessment. Dr.Elkarmi served as director for MMIS Management Consultants; General Manager of Arab Development for Food Industries - Free Zone - Zarka; Managing Director, Quality Consultancy Company (QCC); Director, Industry Sector and Mineral Resources at the Higher Council for Science and Technology (HCST); Director, Energy Sector Technologies at the Higher Council for Science and Technology; Acting General Manager (Part-time) for Palestine Industrial Investment Company (PIIC) in Nablus - Palestine; and Director of Planning at the Jordan Electricity Authority. Dr. Elkarmi worked as the Director of "IRADA," which is a project sponsored by the Ministry of Planning for assisting entrepreneurs in establishing their businesses, including the preparation of feasibility studies, business plans, request for financing, and registration procedures.

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