

Power & Energy

Modern times have been characterized by a growing realization that a globally burgeoning energy expenditure comes at an often irreversible cost to the environment, and have of late, prioritized the search for cleaner and more efficient energy sources. The next big challenges in the sector will be inextricably tied to identifying optimal equilibria in the precarious debate between performance ratios that must be adhered to and environmental cost reductions from cleaner sources. Be it enabling legal and regulatory environments, revolutionary innovations and technological adoption, a need for infrastructure upgrades and ever-increasing digitization of systems, or evolving market structures and newer avenues for growth, the power and energy sector is on the cusp of large scale global changes set to redefine the future of energy consumption.

e.Gen understands these paradigm shifts and with an in-depth understanding of the shifting trends and challenges in the region, is perfectly poised to step up as a major player in the South-Asian energy and power sector. e.Gen's services in the sector encompass feasibility studies, grid code harmonization, transmission and distribution infrastructure upgrades, sectoral reforms and formulation of national energy master plans, tariff restructuring, institutional reforms and capacity building for energy and power utilities, and environmental and social due diligence and impact management.

Key Facts

36
Projects

9
Countries

\$10 Million
Project Portfolio

Featured projects

ADB | TA-9628 BAN: Capacity Development for Renewable Energy Investment Programming and Implementation - 1 Solar PV Power Investment Plan (49102-001) | Bangladesh

e.Gen is currently conducting a feasibility study for assessing the potential of floating solar photovoltaic power generation in Bangladesh. The assessments include Technical, financial, economic and safeguard due diligence. e.Gen will also carry out Grid Impact Assessment by using analytical tools to check the impact of renewable intake on suitable project sites for deployment of wind, biomass and other renewable energy resources. The project will ultimately help the Government of Bangladesh to achieve an increase in 10% of power generation from renewable energy by 2021.

ADB / Ceylon Electricity Board | Loan 3146-SRI: Green Power Development and Energy Efficiency Improvement Investment Program - Tranche 1 | Sri Lanka

Sri Lanka's longer-term challenge is to reduce its high dependence on expensive fossil fuel energy. Recognizing this, the Program was introduced, where e.Gen played a vital role covering two major project areas. One being the evaluation and finalization of Tranche 2 transmission and distribution subprojects and carrying out the Environmental and Social Safeguard Assessment relevant to those projects. The other being the demand side management of a smart grid pilot project, a smart building pilot project and a cold thermal storage pilot project.

ADB | TA 8818-PAK: Power Transmission Enhancement Investment Program II – Project Preparation for MFF and Tranche 1 | Pakistan

The project preparatory technical assistance (PPTA) required conductance of due diligence for the MFF and tranche 1. Tranche 1 was expected to include 4 to 6 sub-projects, consisting of new the rehabilitation, augmentation and expansion of transmission lines, substations and supporting Infrastructure. e.Gen Conducted technical, economic, financial and social assessment of the project.

ADB | TA 7666-NEP: Energy Access and Efficiency Improvement Project II | Nepal

The broad objective of the project was to conduct necessary scoping and feasibility studies to identify appropriate candidate projects for the immediate loan program. e.Gen identified potential clean energy projects, prioritized them and prepared feasibility studies for those prioritized projects. e.Gen recommending policy, investment, regulatory reforms, capacity building, and institutional needs in relation to clean energy development.

The World Bank | Consultancy on Economic Cost of Natural Gas for Myanmar Market | Myanmar

e.Gen conducted a study to determine the economic costs of supplying natural gas into the domestic market at certain off take points of the gas network considering Myanmar's gas reserve position and current and forecasted supply and demand conditions. Following that, e.Gen reviewed the impact of international gas prices on Myanmar's gas exports and government's revenues from the gas sector.

ADB / Power Grid Company of Bangladesh (PGCB) | Loan 2966-BAN: Power System Expansion & Efficiency Improvement Investment Program | Bangladesh

e.Gen provided technical advice to PGCB in preparation of basic design, preparation of bid documents, clarifying bidders' queries during bidding stage, verifying contractors' design and modifications thereof, ensuring environmental standards during construction and supervision of contractors' work during implementation.

ADB | TA 7619-MON: Updating Energy Sector Master Plan | Mongolia

The scope of the assignment focused on identification of priority interventions to attain an energy sector road map for the Government of Mongolia while enhancing energy security, improving the efficiency and promoting clean technologies. e.Gen performed a Comprehensive Sector Assessment, assessing the energy sector to identify investment gaps and the urgent reforms. e.Gen provided a Medium term and Long-term Investment Plan for the energy sector. Finally e.Gen enhanced the government's capacity in sector assessment and investment needs analysis.

ADB | TA 7262-VIE: Capacity Building of Renewable Energy Development | Vietnam

The project was concerned about the Development of mini Hydropower Projects for Rural Electrification in Mountainous Provinces in Lai Chau and Dien Bien Provinces. e.Gen provided implementation support in improving and expanding 9 HPP transmission lines in 12 provinces, 86 districts and 500 communes and grid extension and rehabilitation of distribution networks serving poor communities in various areas of Viet Nam.

ADB | TA 7242 / 7889-BAN: Power System Efficiency Improvement Project Tranche 1 and 2 | Bangladesh

The objective of the tranche 1 was to conduct necessary scoping and feasibility studies to identify appropriate candidate projects for the upcoming loan. The tranche 2 addressed three key areas in the electricity supply sector. They were, improving energy use efficiency of thermal power plants, improving the transmission network capacity, and expanding the renewable energy base.

KfW / Bangladesh West Zone Power Distribution Company Ltd (WZPDC) | Modernization of Power Distribution - Smart Grids Phase I | Bangladesh

e.Gen's consultants are preparing a Feasibility Study which comprises of the technical, financial/ economic aspects and environmental/ social aspects for the Project.

Other Major Projects

- ADB | Loan 3350-BAN: Power System Expansion and Efficiency Improvement Investment Program | Bangladesh
- The World Bank | Impact of Energy Subsidy Reform on Firms and Mitigation Measures | Tunisia
- ADB | TA-7826: Support for Climate Change Mitigation and Renewable Energy Development | Bangladesh
- The World Bank | Study for the Development of the Power Market for Thermal IPPs | Vietnam
- ADB | TA 3978-BAN: Corporatization of Dhaka Electric Supply Authority (DESA) | Bangladesh
- JICA | Value Chain Analysis for Market Development and Dissemination of PicoPV (Solar Lantern) | Bangladesh
- Ministry of Planning | System Loss Reduction of Titas Gas Transmission & Distribution Co. Ltd. | Bangladesh
- The World Bank | Monitoring the Social and Economic Impacts of Electricity Privatization | Turkey
- ADB | TA 4898- BAN: Promotion of Private Sector Participation in the Power Sector | Bangladesh
- ADB | Corporatization of West Zone Distribution Operations of BPDB | Bangladesh
- ADB | Siddhirganj 2X120 MW Peaking Power Plant Project | Bangladesh