

ELECTRICITY TRANSMISSION & DISTRIBUTION

BUILDING CAPACITY OF ELECTRICITY SUPPLY COMPANIES TO ADDRESS UNPRECEDENTED GLOBAL DEMAND FOR CLEAN, AFFORDABLE ENERGY.

Demand for energy will continue to grow rapidly in order to keep pace with the demands of economic development. Most infrastructure required to satisfy global demand in coming decades has yet to be constructed. In 2012, more than one billion people were still without access to electricity, with population growth in much of the developing world continuing to outpace energy infrastructure development (World Bank, 2018). Although future demand will largely be met from renewables, existing grids will remain central to electricity distribute and transmission for the foreseeable future.

The global electricity sector faces three major challenges: ensuring that supply keeps pace with rapidly emerging demand, the fight against climate change, and the global trend toward urbanization. Responding to the first of these challenges requires sufficient investment to keep up with the growing demand for global energy, while keeping final energy costs under control. The International Energy Agency estimates that 1.4% of global GDP will have to be invested in the energy system between 2010

and 2035, or \$33 trillion over 25 years. Two-thirds of these investments will need to be in emerging and developing economies to satisfy the projected 2% annual growth in primary energy needs. A significant part of this investment is required for human resource development.

7 AFFORDABLE AND CLEAN ENERGY



1 NO POVERTY



10 REDUCED INEQUALITIES



3 GOOD HEALTH AND WELL-BEING



4 QUALITY EDUCATION



6 CLEAN WATER AND SANITATION



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



What AIT offers



Access to senior experts and AIT faculty members working in the field of energy distribution and transmission



Capacity development expertise and learning professionals



Experience in delivering bespoke sectoral development projects for countries in the region



AIT

Asian Institute of Technology



AIT Extension

Executive & Professional Education

Projects



Power Sector Capacity Development Program (PSCDP) for the Ministry of Power, Government of Bangladesh. The project goal was to build required professional expertise to address rapidly developing needs in the power sector. Funded by the Asian Development Bank (ADB), the program trained over 400 engineers, administrators, and finance managers.



Energy Distribution Services Management and Technology Program (EDSMAT), part of a capacity building program under a World Bank technical assistance component, aimed at building a conceptually strong and technically skilled 436 engineers and key officers of Pakistan power distribution companies (DISCOs).



Technical and Managerial Capacity Development of Power Grid Company of Bangladesh (PGCB) is part of the company's own initiative to enhance their officers' practical knowledge required for their day to day activity in the fields of transmission line and grid sub-station design, operation and maintenance; project management; international financial reporting standards; smart grid; SCADA; etc. The cooperation between AIT and PGCB is for 3 years for a total of 40 customized courses.



Capacity Development of Bhutan Power Corporation (BPC) officers aims to enhance their technical and management knowledge in areas of human resource development; budgeting and cost control; inventory and store management; leadership; contract and project management; people management; etc. The agreement between AIT and BPC is to conduct 30 customized courses.



Capacity Building of Professionals, an agreement with Dhaka Electricity Supply Company Limited (DESCO), enables executing 20 customized courses focusing on power supply, information technology and management sphere.

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