



IAEA

Atoms for Peace: The First Half Century

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Capacity building for sustainable energy development in Pakistan

The challenge...

Pakistan, home to 157 million people, is on a fast track to economic development. Over the past five years, the average annual growth in Gross Domestic Product (GDP) has increased to 7.0%. A sustained economic growth of 7-8% per year is planned for the future. However, Pakistan still faces many challenges in fully realizing its economic potential. These challenges include an adequate energy supply.

The project...

The Government of Pakistan's 'Energy Security Plan' aims at the maximum utilization of indigenous energy resources to enhance energy supply security, and includes an accelerated development of nuclear and renewable energy sources as part of the overall energy mix. The IAEA offers a set of energy planning models, and has assisted the Pakistan Atomic Energy Commission by building capacities in the effective use of these tools. The IAEA has also provided technical support in carrying out various energy/electricity development studies.

The impact...

IAEA energy planning models were used in the 'Energy and Nuclear Power Planning Study for Pakistan, (covering the period 1993-2023)'. A following study determined a least-cost analysis of alternative strategies for electric system expansion and the possible role of nuclear power in the future electricity mix of the country to 2030. The insight gained from this study was used to formulate a nuclear power plan for the 'Energy Security Plan'.

IAEA assisted Pakistan in developing a team of professionals for nuclear power planning, electric system expansion planning and analysis of national energy demand-supply system. Now, this team conducts feasibility studies for nuclear power projects and assists the Government of Pakistan in formulation of national energy/ electricity plans. It also assists other developing countries in training their professionals (through the IAEA fellowship programme, by sending resource persons to the Regional/National IAEA training courses, and through expert missions under the auspices of the IAEA.

