Project Summary

Project Background
In order to achieve the overall goal of Nepal Energy Efficiency Programme (NEEP) to establish energy efficiency as an essential component of energy supply in Nepal, the project intervenes in four fields of activity:

1. improving policy frameworks for the implementation of energy efficiency and conservation measures;
2. strengthening the capabilities of the Nepal Electricity Authority (NEA) in managing power supply and demand;
3. developing a market for energy efficiency services and energy-efficient products to improve the essential economic and financial conditions for energy efficiency and conservation measures; and
4. initiating the integration of energy efficiency into university and vocational education.

Project Objectives
The contractor is responsible for achieving the Output B: The capabilities of the Nepal Electricity Authority (NEA) in managing power supply and demand are strengthened.

The output contributes to the achievement of the project goal which in turn forms part of the ‘energy’ priority area of German bilateral cooperation with Nepal. More specifically, output B aims at strengthening the capabilities of NEA in such a way that the organization will be able to independently develop solutions to challenges arising from the management of supply and demand. Through interventions on both the demand and supply side (intervention area 1 and 2), activities focusing on institutional support including capacity building at NEA (intervention area 3) as well as consumer awareness and general knowledge management (intervention area 4), system losses at the distribution level are reduced, existing information gaps are closed, and a more efficient use of energy is fostered. This in turn contributes to economic growth, poverty reduction and improved living conditions in Nepal. As the project assists in establishing energy efficiency as an essential component of energy supply, it helps to achieve the greater programme objective.

Project Results
Expected project results (indicators) are:

1. NEA has introduced a digital information system to analyse its customers’ consumption patterns.
2. NEA has introduced a digital monitoring system to monitor the efficiency of the supply infrastructure.
3. NEA has presented a programme with 3 awareness-raising measures (information campaigns and a range of advisory services) to reduce specific energy demand by end users.

Services Provided
- Design, selection and implementation of pilot projects jointly with NEA;
- Load surveys and trend analysis;
- Up-scaling strategies for proven pilot projects;
- Skills assessment and identification of priority learning areas at NEA;
- Regional and international study tours;
- Design of M&E platform/tool;
- Concept for awareness-raising program;
- Design of consumer information platform;
- Formulation of DSM strategies;
- Concept for establishment of knowledge management system (on demand-side and supply-side measures);
- Final recommendation catalogues (demand & supply-side intervention).

Nepal
Loss reduction in power distribution systems (NEEP III)

Client
German International Cooperation (GIZ)

Duration
01/12/2018 - 30/11/2020

Personnel
- 1 internat. LTE (22 PM; Team Leader/ Power Systems Engineer)
- 2 internat. LTE (40 PM; Power System Engineer, Technical Power Economist)
- 1 national LTE (20 PM; Communication and CapDev Expert)
- Pool of internat. and national STE (14 PM)