

Afghan – German Cooperation Energy Sector

Energy Supply for Rural Areas in Afghanistan: Jobs and Training in Electricity Energy

by
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Skills Building on Rural Electrification
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Background of Electricity consumption in Afghanistan

- Afghanistan's consumption of electricity is one of the lowest in the world
- 28% of households connected to the electricity
- Less than 9% of the rural population are connected to the electricity
- 75% of Afghans live in rural areas
- 67 per cent of the national Gross Domestic Product (GDP) comes from rural areas
- **Rural areas are strategically for economy of Afghanistan**
- **Lack of energy is a major problem for development of rural areas in Afghanistan**

Policies and Strategies on energy in Afghanistan

- Afghanistan National Development Strategy (ANDS) till end of 2013
- Afghanistan Energy Master Plan till 2032
- Afghanistan Energy Regulatory Law till 2032
- National Energy Priority Program till 2015
- Public Institutions in Afghanistan on Energy Sector:
 - Ministry of Energy and Water (MEW) with Renewable Energy Department (RED) and **Vocational Training Center (VCT)**
 - Ministry of Rural and Rehabilitation Development (MRRD)
 - De Afghanistan Breshana Sherkat (DABS, Afghan Electricity Utility)
 - Afghan National Standard Authority (ANSA)
- Private sector organization Afghanistan Chamber of Commerce and Industries (ACCI)

Afghanistan Energy Program

Objective:

To improve the access of the Afghan population to environmentally and climate friendly energy for the economic development of the country and to reduce poverty

National Partners:

Ministry of Energy and Water MEW

Renewable Energy Department RED

De Afghanistan Breshana Sherkat DABS

Afghan National Standardization
Authority ANSA

Cooperation Partners:

Technical Cooperation:
Energy Supply for Rural
Areas

giz

Financial Cooperation:
Regional Power Grids
And Hydroelectric
Power Generation

KFW

Energy Supply for Rural Areas (ESRA)

What is ESRA Program doing?

**Regulation
Policy
Planning
Coordination**



**Standards of
Equipments
and
Procedures**



**Operator models
Customer
Service
Pilot projects**



**Training of
Technicians**



Labor Demands and Business Opportunities of Electricity Systems

Descriptions	Professional Demands
Maintenance of equipment and installations	Engineers, Technicians, component suppliers, etc
Operation of power plants and local grids	Commercials, administrators, financial assistant, lecturers, etc
Installation of cables switches plugs and etc in the house and reparations	Technicians, producers of all the required components and suppliers, etc
Supervision of grid and installations	Qualified technicians and employees in the specific organizations, etc
Standardization of components elector system procedures	Employees in specific organizations or institutions etc
Specific academic careers on electric sector	Engineers, professors and academic staff, etc
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MEW Vocational Training Centre (MEW-VTC)

Energy Training Centre (ETC) for
Renewable Energies

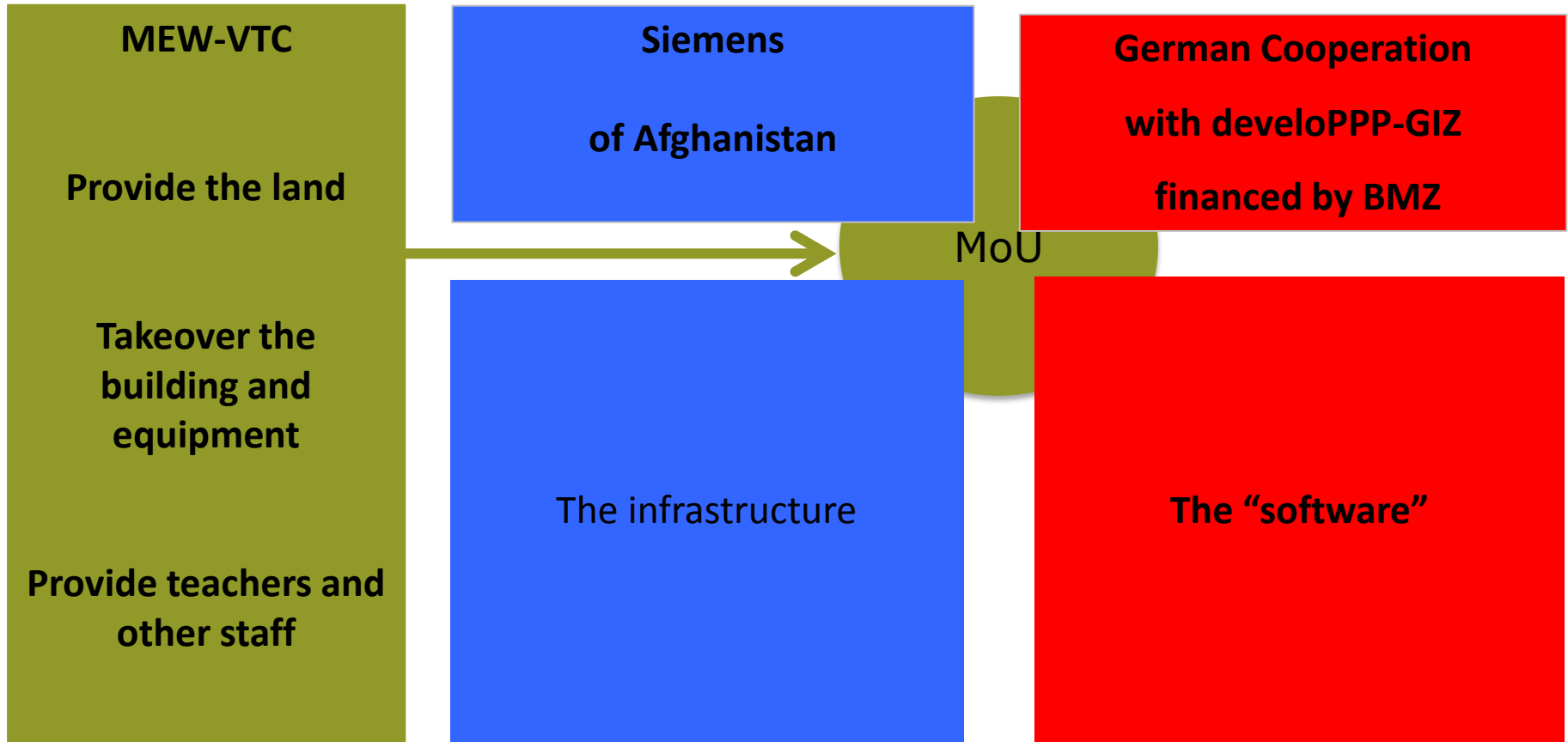
MoU

on
PPP-Project

Siemens
of Afghanistan
as Partner in the
develoPPP Project

German Cooperation
with develoPPP-GIZ
financed by BMZ

Private Public Partnership Project “Energy Training Centre”



MEW-VTC Contribution

- Land for the Energy Training Centre (ETC) building
- Two technicians as multipliers conducting the practical trainings for the students
- Takeover to the new ETC building and
- of all the provided equipment for the energy training center
- Short term trainings and workshops for expert groups (DABS, MEW, MRRD, university professors, private sector)

Siemens Afghanistan Contribution

- Design and construct the new building
- Purchase, delivery and installation of the equipment
- Train two technicians of VTC on the installation and handling
- Organize study tour to Karachi / Pakistan for two high qualified national engineers
- Train two national engineers as Train of trainers (ToT) for the different training courses applying by ETC
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- Will collaborate on this cooperation till end of September 2016

GIZ-DeveloPPP contribution

- Study on institutional set up
- Enhancement of existing training materials considering local circumstances and existing curriculum
- Modular training program for graduates of the hydropower course
- Update the existing training materials for hydropower course
- Training material for modular training program including renewable energies
- Test runs of training materials and continuously adaptation (lessons learnt)

Expected Results

- 150 – 200 graduated technicians each year
- Up to 45 technicians graduated for renewable energy (hydropower)
- Specific short term Courses for operators in charge (knowledge refreshment)
- ETC as reference center for renewable energy training

German Cooperation with Afghanistan

Thank
you

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