Afghanistan Electricity in a Glance

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Overview

Existing System

Future Plan
1. Overview

- Location within south Asia and central Asia
- Population: about 30 million
- In 1893, 40 electric bulbs illuminate the presidential palace at Kabul for the first time
- Electric energy potential

http://www.ezilon.com/maps/asia/afghanistan-maps.html
1. Electricity Supply

Existing system:
- North East Power System
- South East Power System
- Western System

Supply sources:
- Import power
- Internal source (Hydro, Diesel generator etc.)
2. Import Power

To NEPS:
- from Tajikistan 220 Kv transmission line
- from Uzbekistan 220 Kv transmission line
- from Turkmenistan 110 Kv transmission line

To Herat:
- from Turkmenistan 110 Kv transmission line
- from Iran 132 kV transmission line
Overview

Existing System

Future Plan
1. Transmission Line Expansion

- 500 kV transmission line from Turkmenistan to Andkhoi and Kabul
- 220 Kv transmission line from Kabul to Logar, Paktya and Khost
- 220 kV transmission line from Kabul to Ghazni and Kandahar
2. CASA 1000

Central Asia South Asia Regional Electricity Market (CASAREM)

The CASA link extends from Kergyz Republic to Tajikistan, Afghanistan and Pakistan

The 1300 MW CASA 1000 project is 1227 km high voltage AC & DC transmission line and three high-tech AC-DC converter
Thank you for your attention!