



Islamic Republic of Afghanistan
Ministry of Energy and Water



Afghanistan Electricity in a Glance

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Future Plan

1. Overview

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



<http://www.ezilon.com/maps/asia/afghanistan-maps.html>

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1. Electricity Supply

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Existing system:

North East Power System

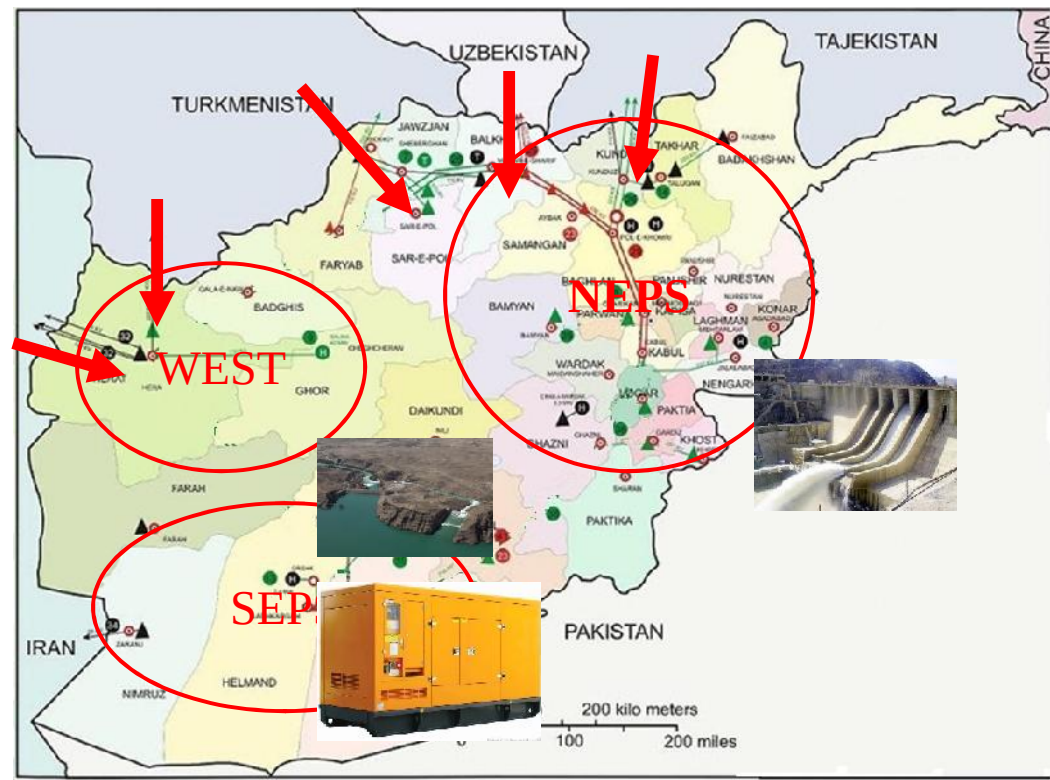
South East Power System

Western System

Supply sources:

Import power

Internal source (Hydro, Diesel generator etc.)



2. Import Power

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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

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-
- TURKMENISTAN**
Serdar
Zernow
Andkhoy
Shireen-Tagab
Juma-bazar
Maimana
Sar-e-Pul
- UZBEKISTAN**
Surkhan
Amu
Hairatan (No Substation)
Hairatan – Mazar-e-Sharif
76 km 2 x 220 kV
Completed 2007
Naibabad (Switching Station)
Khulm
Naibabad – Pul-e-Khumri
164 km 2 x 220 kV
Completed 2007
Mazar-e-Sharif
Sheberghan – Naibabad
162 km 2 x 220 kV
Planned 2012
40 km Gap
- TAJIKISTAN**
Sangtuda
Geran
Sherkhan Bandar
Imam Sahib
Kunduz
Taluqan
Sherkhan Bandar – Pul-e-Khumri
164 km 2 x 220 kV
Completed 2011
Baghlan
Aybak
- Legend:**
- | SIZE | SUBSTATION | LINE |
|--------|------------|------|
| 500 kV | | |
| 220 kV | | |
| 110 kV | | |
-
- | STATUS | Symbol |
|------------|--------|
| Complete | |
| Incomplete | |
| Unfunded | |
-
- Other Projects:**
- Pul-e-Khumri – Chimtala
202 km 2 x 220 kV
Completed 2008
 - Pul-e-Khumri – Chimtala
Second Line
202 km 2 x 220 kV
Planned 2013-15
 - Tarakhil 105 MW Plant
Completed 2010
 - Kabul – Jalalabad
New/Rehab 1 x 110 kV
Planned 2009
 - Rehabilitating Plant
Planned 2010
- Other Locations:** Doshi/Khenjan, Bazarak, Mahood, Raqi, Charikar, Chimtala, Kabul N, Kabul E, Breshna Kot, Botkhak, Mahipar, Sarobi, Darunta, Mehtarlam, Jalalabad, Naghlu, Dasht-E-Barchi, Pul-e-Alam, Khost, Ghazni, Sharan, Maldanshahar, Sayedabad.
- Not to scale or necessarily relative position.
Updated February 8, 2012 based on current SLID and latest information from ICE Secretariat.
- Afghan Energy Information Center (AEIC)

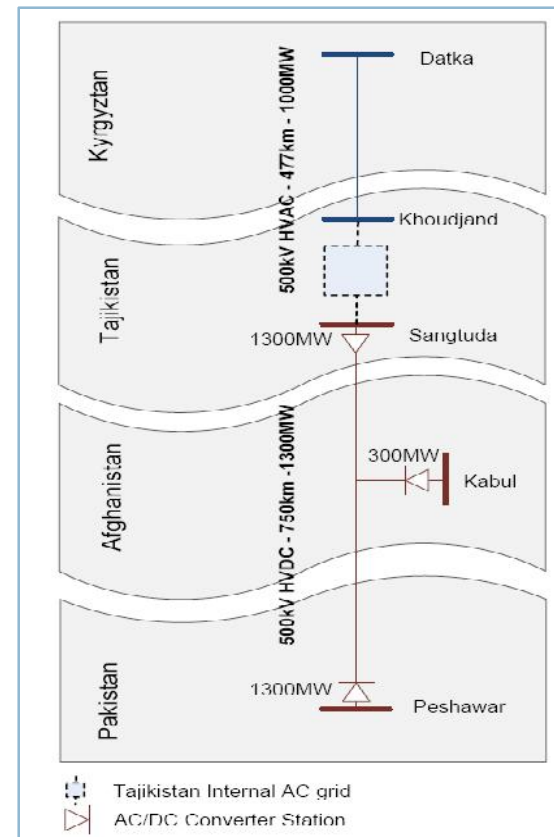
2. CASA 1000

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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!

