

**8TH TASK FORCE MEETING ON REGIONAL ENERGY COOPERATION
BETWEEN CENTRAL AND SOUTH ASIA
DUSHANBE, TAJIKISTAN: JULY 20, 2012**

**SAARC PERSPECTIVE
ON
REGIONAL ENERGY COOPERATION**

**HILAL A. RAZA
DIRECTOR
SAARC ENERGY CENTRE
ISLAMABAD**

ENERGY SNAPSHOT OF SOUTH ASIA

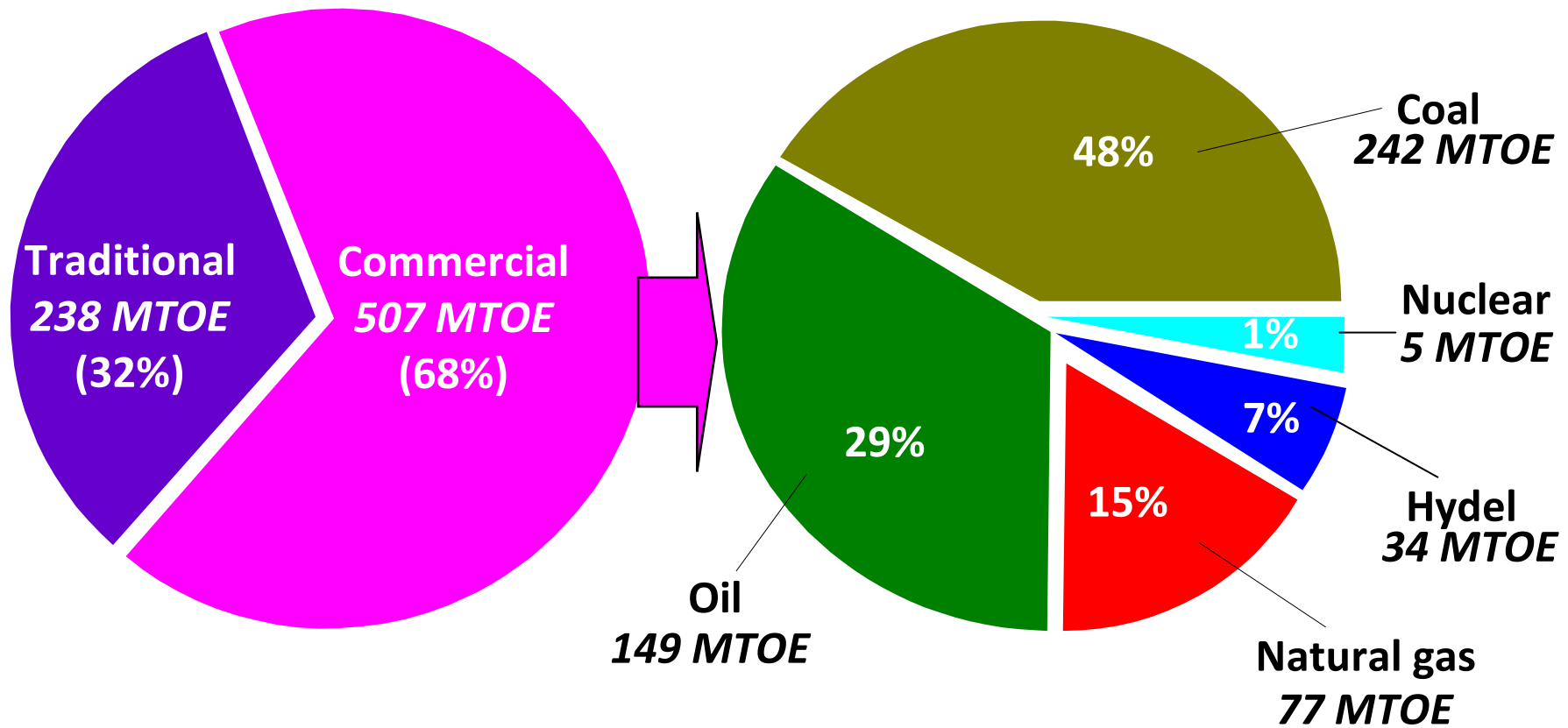
- ◆ 1.8 billion people, 500 million live below \$1 per day poverty line
- ◆ All Countries of South Asia
 - ☐ Oil importing
 - ☐ Energy deficit (except Bhutan)
- ◆ Energy needs of South Asia will increase 3-times from present 500 to 1,500 million TOE in 15 years



ENERGY CONSUMPTION OF SOUTH ASIA

TOTAL: 745 MTOE

COMMERCIAL ENERGY BY-SOURCE



(MTOE - Million tonnes of oil equivalent)

SAARC VISION FOR ENERGY COOPERATION

- **SAARC Leaders at the 2004 Islamabad Summit gave the Vision of a SAARC ENERGY RING**
- **SAARC Energy Centre formed in 2006 at Islamabad as an Inter-Governmental body:**
 - **to initiate, promote and facilitate energy cooperation in SAARC countries; and**
 - **to translate the Energy Ring Vision into reality**

PROGRAM THEMES OF SAARC ENERGY CENTRE

- 1. Energy trade**
- 2. Integrated assessment of energy, transport, and environment**
- 3. Energy efficiency and renewable energy**
- 4. Technology transfer and sharing best practices**
- 5. Rural electricity for poverty alleviation**

CURRENT PROJECTS FOR SUSTAINABLE ENERGY DEVELOPMENT IN SOUTH ASIA

(1/2)

- 1. SAARC Action Plan on Energy Conservation & Efficiency**
- 2. Gender-Energy nexus**
- 3. Improved Cooking Stoves: “SAARC Chullah”**
- 4. Energy efficiency in brick kilns**
- 5. Training in energy audit**
- 6. Geothermal energy potential**

CURRENT PROJECTS FOR SUSTAINABLE ENERGY DEVELOPMENT IN SOUTH ASIA

(2/2)

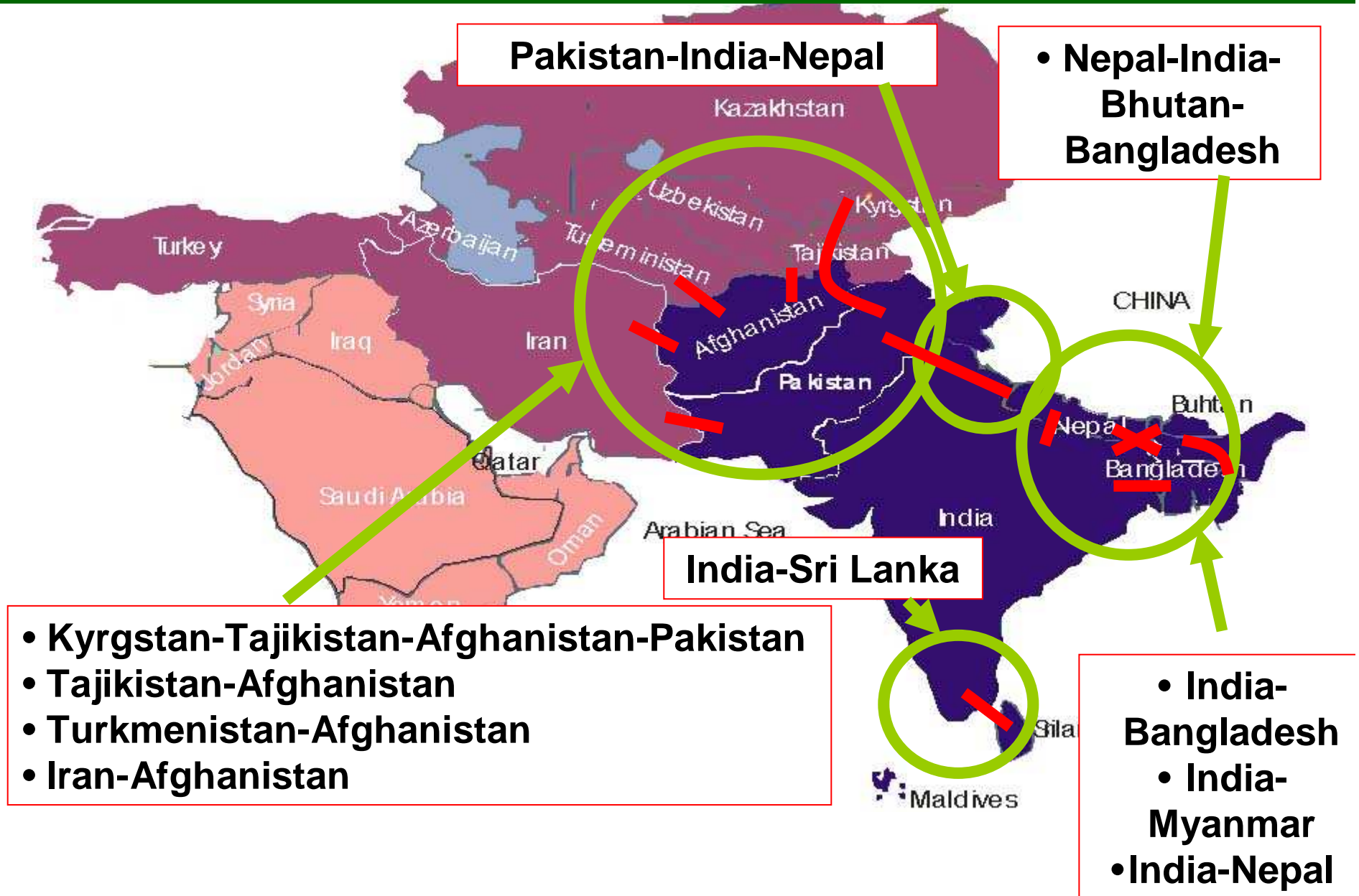
- 7. Lessons learnt in renewable energy technologies**
- 8. Promoting hydropower development**
- 9. Studying options for energy trade**
- 10. Studying harmonization of electricity laws**
- 11. Promoting extraction of non-conventional gas**
- 12. 2012 – International Year for Sustainable Energy for All**

REGIONAL ENERGY TRADE

- **SAARC Regional Energy Trade Study (SRETS) identified four regional or sub-regional trade options:**
 - i. Power Market**
 - ii. Petroleum Refinery**
 - iii. LNG Terminal**
 - iv. Power Plant**







- **A follow up study on South Asia Regional Power Exchange is in progress with assistance of ADB**

SOUTH ASIA ENERGY RING – 1. POWER GRID

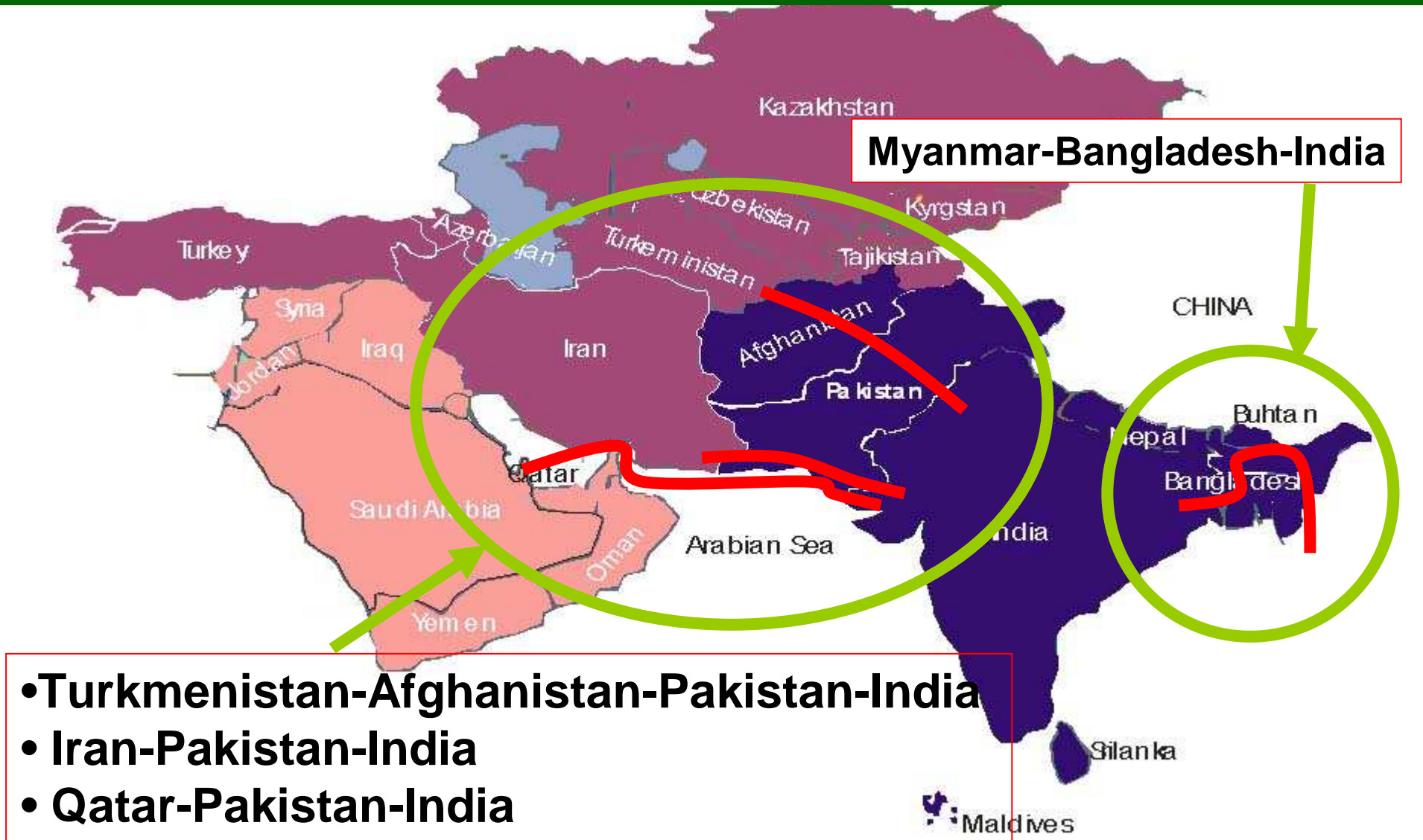




CASA - 1000 project lines:
 AC - Datka - Khodzhent,
 Regar - Sangtuda
 DC - Sangtuda - Kabul - Peshawar

-  Existing 500 kV lines and substations
-  Planned 500 kV AC lines for CASA - 1000
-  500 kV substation under construction
-  Proposed CASA - 1000 DC line and converters
-  Existing 220 kV lines and substations
-  Cities

SOUTH ASIA ENERGY RING – 2. GAS GRID



Pipelines from the east and the west can further be extended to Nepal



SAARC ENERGY INITIATIVE

Mitigating energy poverty for sustainable development through fostering energy cooperation within and across South Asia for a better tomorrow

THANK YOU FOR YOUR ATTENTION