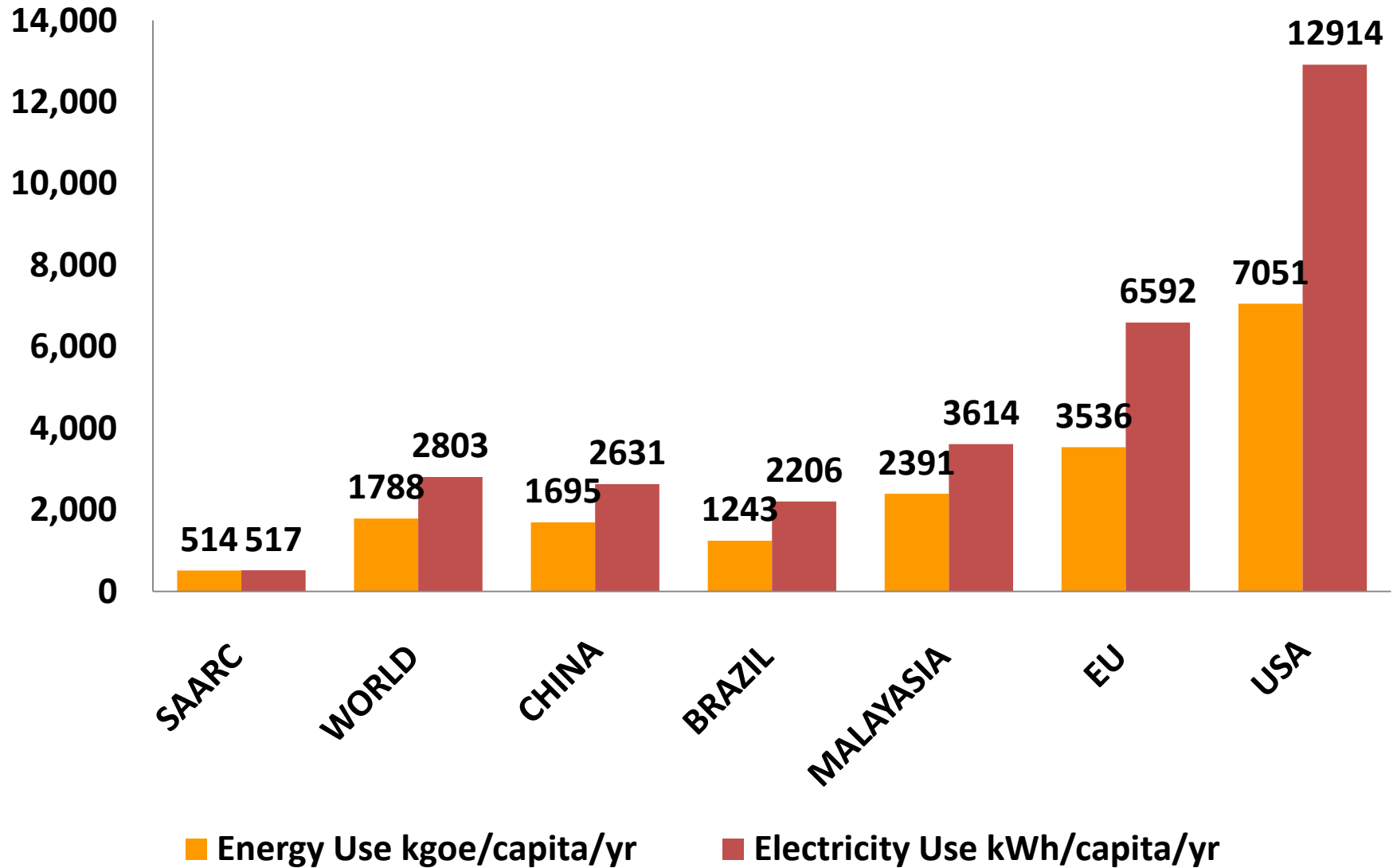


**USAID - SARI/EI INTERNATIONAL CONFERENCE ON
CROSS-BORDER ELECTRICITY TRADE
HOTEL LE MERIDIEN, NEW DELHI, INDIA: OCTOBER 4-5, 2013**

**CROSS-BORDER ENERGY TRADE:
A NEW ENERGY RENNAISSANCE FOR GROWTH AND
DEVELOPMENT OF SOUTH ASIA
-- THE PERSPECTIVE OF SAARC**

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

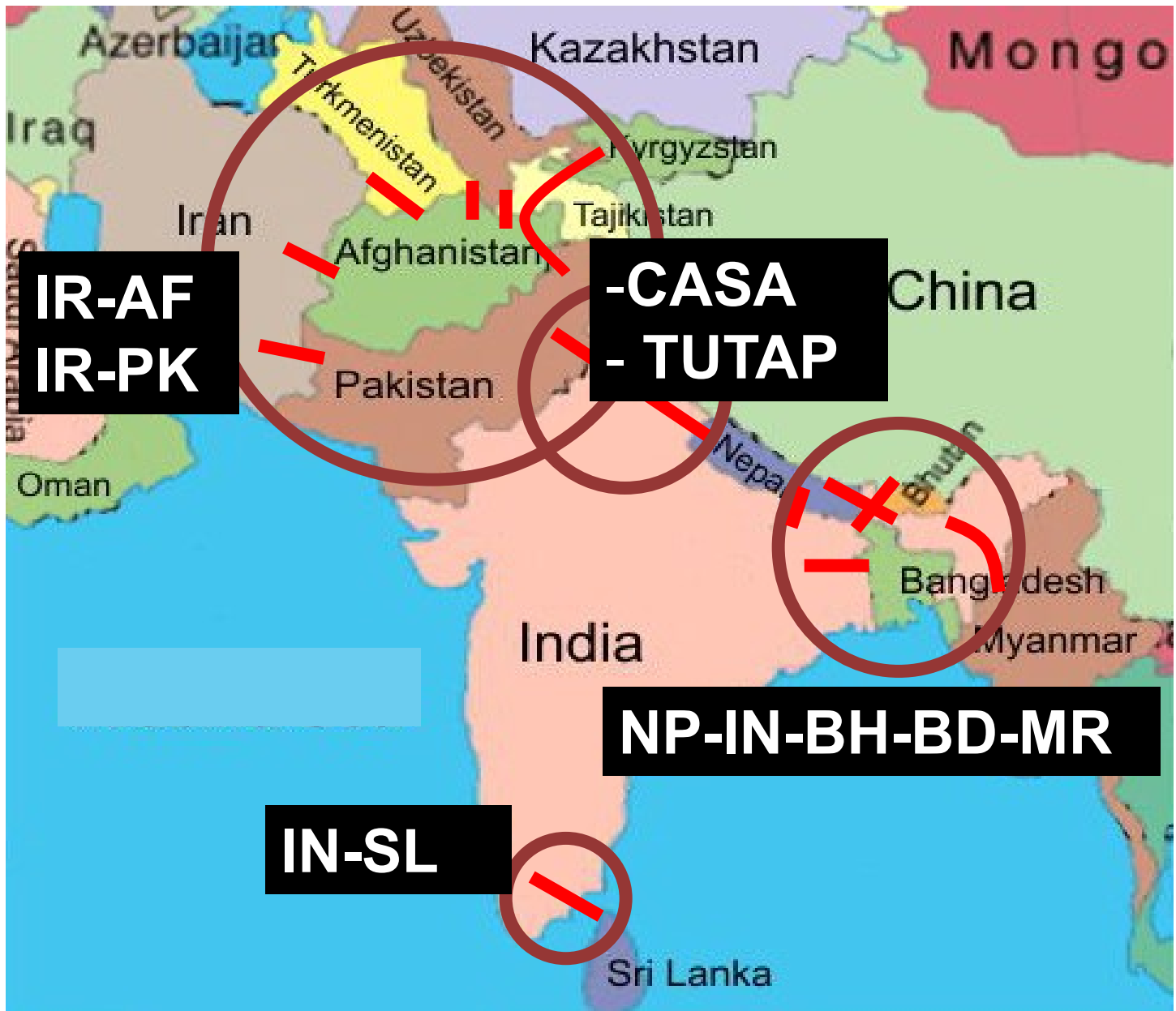
ENERGY POVERTY OF SAARC REGION



SAARC ENERGY RING

- **SAARC ENERGY RING: a Vision given by SAARC Leaders at the 2004 Islamabad Summit**
- **SAARC Energy Centre is mandated to translate this Vision into reality**
- **Four Inter-Governmental Expert Groups engaged to advise on way forward in:**
 - **Oil and Gas**
 - **Electricity**
 - **Renewable Energy**
 - **Technology Transfer (including Coal and Energy Efficiency)**

SAARC ENERGY RING – 1. POWER GRID



SAARC ENERGY RING – 2. GAS GRID



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

STUDIES ON SAARC ENERGY RING (1/2)

- **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 Study on South Asia Regional Power Exchange has identified various opportunities in electricity trade**
- **SAARC Action Plan on Energy Conservation submitted for consideration of all Member States**
- **A Pre-feasibility Study of SAARC Coal Based Power Plant completed**

STUDIES ON SAARC ENERGY RING (2/2)

- **A Seminar just concluded at New Delhi on Role of Private Sector in Regional Power Trade**
- **A Workshop planned in November 2013 to learn from Indian experience in lignite based power generation**
- **Another Workshop is planned in early 2014 to learn from Indian experience in LNG**
- **Several Training Workshops conducted on Energy Efficiency and Energy Audit**

POTENTIAL POWER GRID INTERCONNECTIONS

	Interconnection	Capacity (MW)	Est. Cost (Million USD)	<u>Annual</u> Benefit (Million USD)
1	India-Bhutan	2,100	160	1840
2	India-Nepal	1,000	190	105
3	India-Sri Lanka	500	600	186
4	India-Bangladesh	500	250	389
5	India-Pakistan	500	150	491
6	CASA-1000	1,000	970	906
	TOTAL	5,600	2,320	3,917



SAARC MARKET FOR ELECTRICITY (SAME)

- **Draft of a “SAARC Inter-Governmental Framework Agreement for Energy Cooperation (Electricity)” endorsed by Energy Ministers Meeting in Dhaka (15th September 2011) is under consideration of SAARC Member States**
- **Draft IGFA provides to allow for:**
 - **Unrestricted cross-border trade**
 - **Commercial negotiation of PPAs**
 - **Non-discriminatory open access**
 - **Private sector trading**
 - **Participation in power exchanges**
- **Ultimate objective is to create a SAARC Market for Electricity: SAME**

NEXT STEPS FOR SAME

- **SAARC Inter-Governmental Framework Agreement for Regional Cooperation in Energy (Electricity) to be approved**
- **Detailed Scenario Analysis on Regional Interconnections to be undertaken**
- **SAARC Electricity Transmission Master Plan to be prepared**
- **A 20-year Perspective Plan for Power Sector of SAARC Region is contemplated**

SAARC ENERGY CENTRE

**IS THUS MITIGATING ENERGY POVERTY
THROUGH CREATION OF
SAARC MARKET FOR ELECTRICITY AND
MULTILATERAL ENERGY COOPERATION
WITHIN AND ACROSS SOUTH ASIA
FOR A BETTER TOMORROW**

THANK YOU FOR YOUR ATTENTION

www.saarcenergy.org