



Energy Sustainability Challenges in Asia-Pacific Opportunities for Regional Cooperation

Sergey Tulinov
11 – 12 December 2013



EQUITY EFFICIENCY RESILIENCE



RIO+20

SUSTAINABLE
ENERGY FOR ALL

Post-2015
Sustainable
Development
Agenda





EQUITY

EFFICIENCY

RESILIENCE

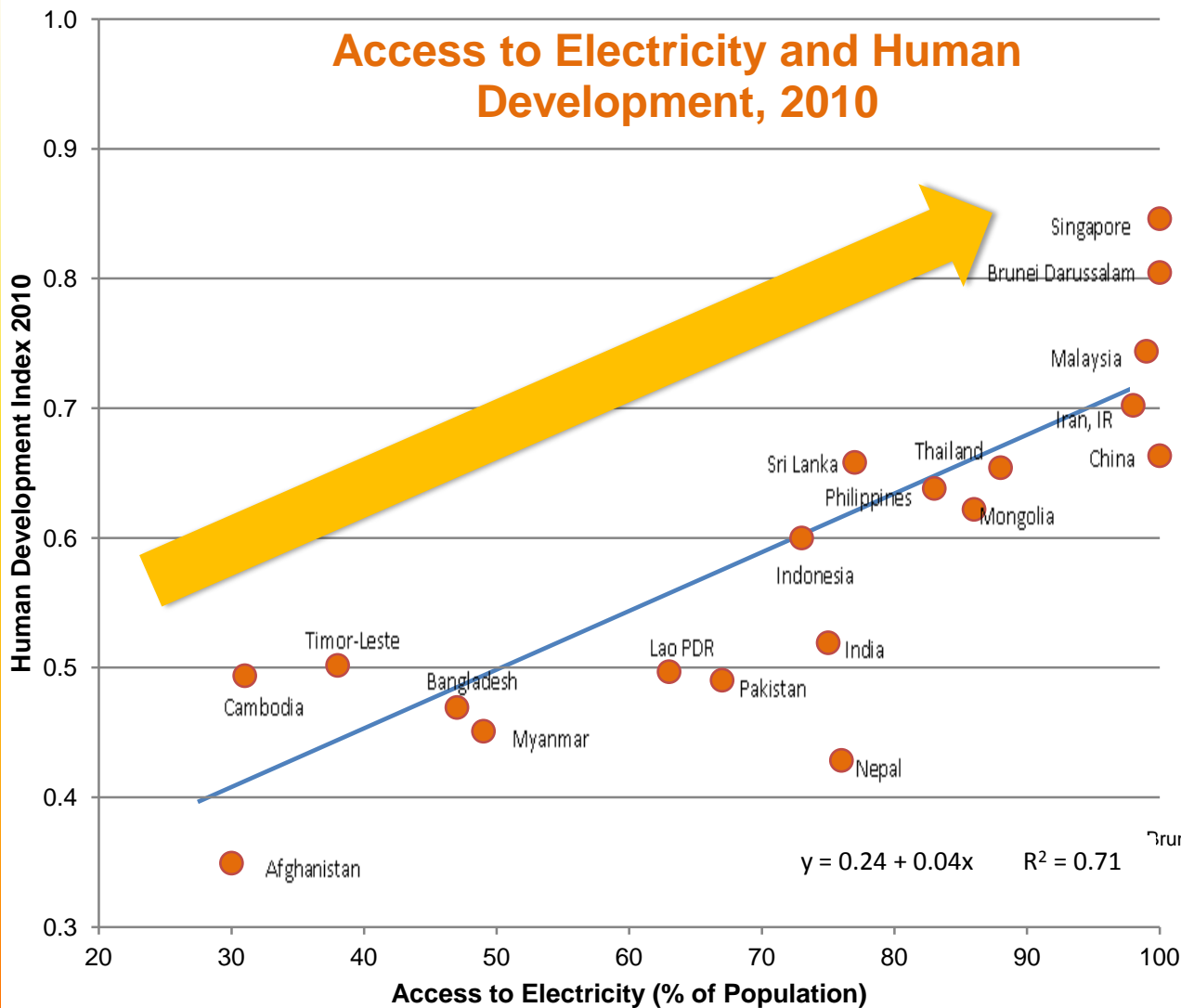
628 million people
in Asia and the Pacific lack
access to electricity.

EQUITY

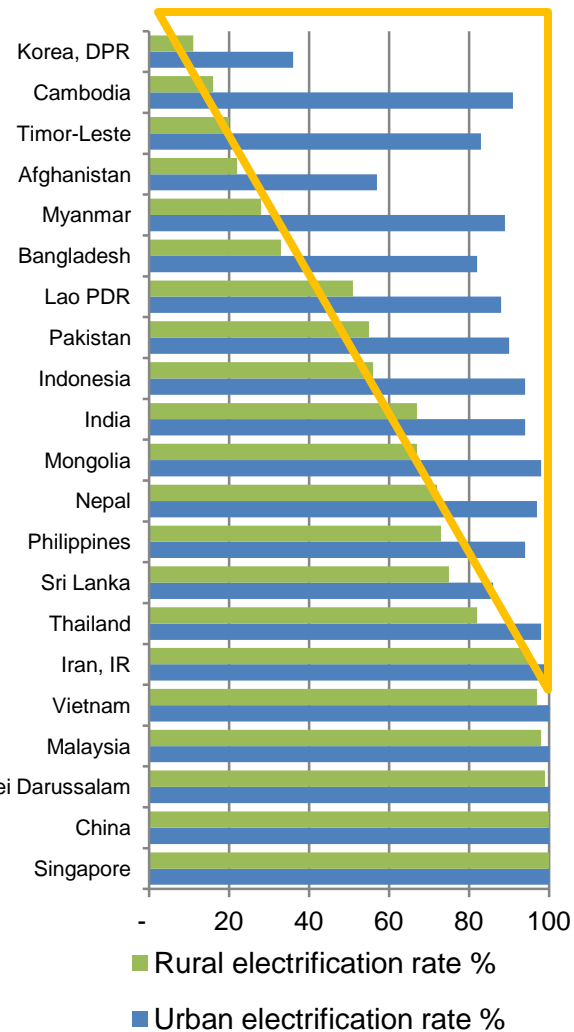
EFFICIENCY

RESILIENCE

Access to Electricity and Human Development, 2010



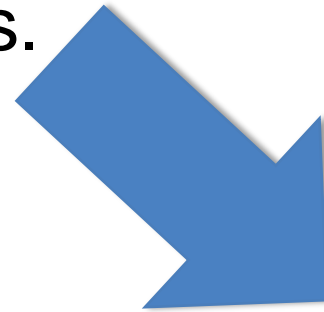
Rural and Urban Electrification Rates, 2010



EQUITY EFFICIENCY RESILIENCE

1.8 billion people

in Asia and the Pacific still
use traditional biomass.

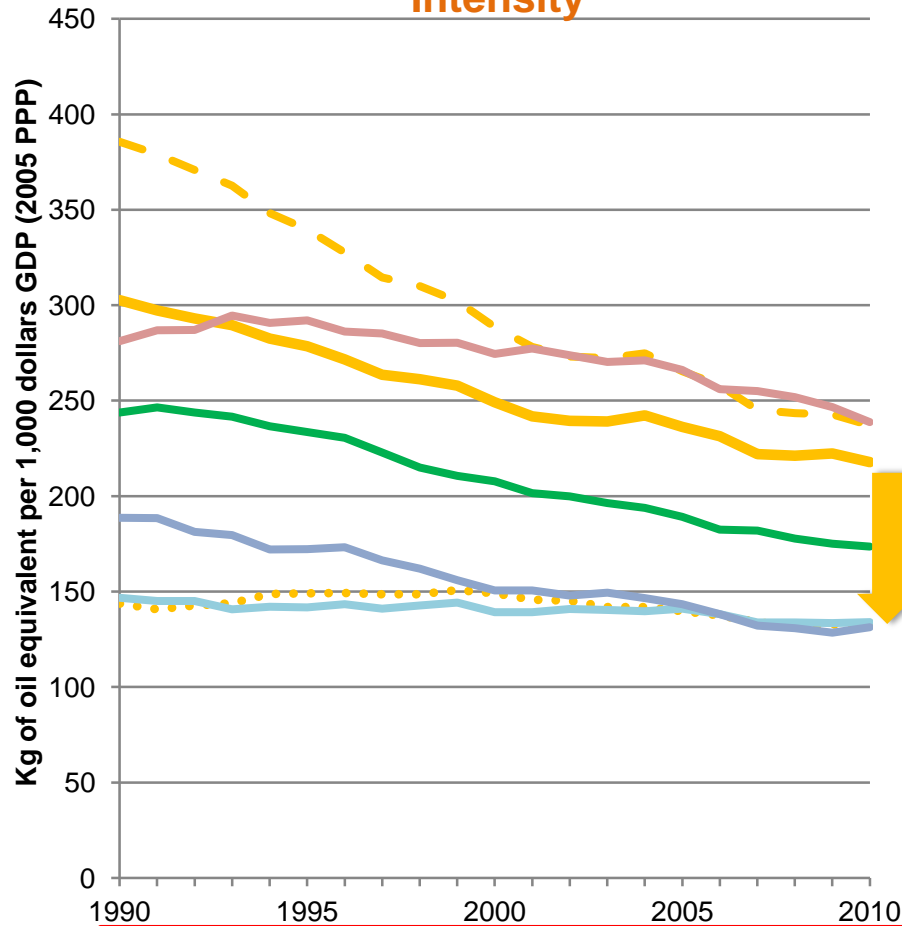


1.3 million people

in Asia and the Pacific are
estimated to die each year
from indoor air pollution.

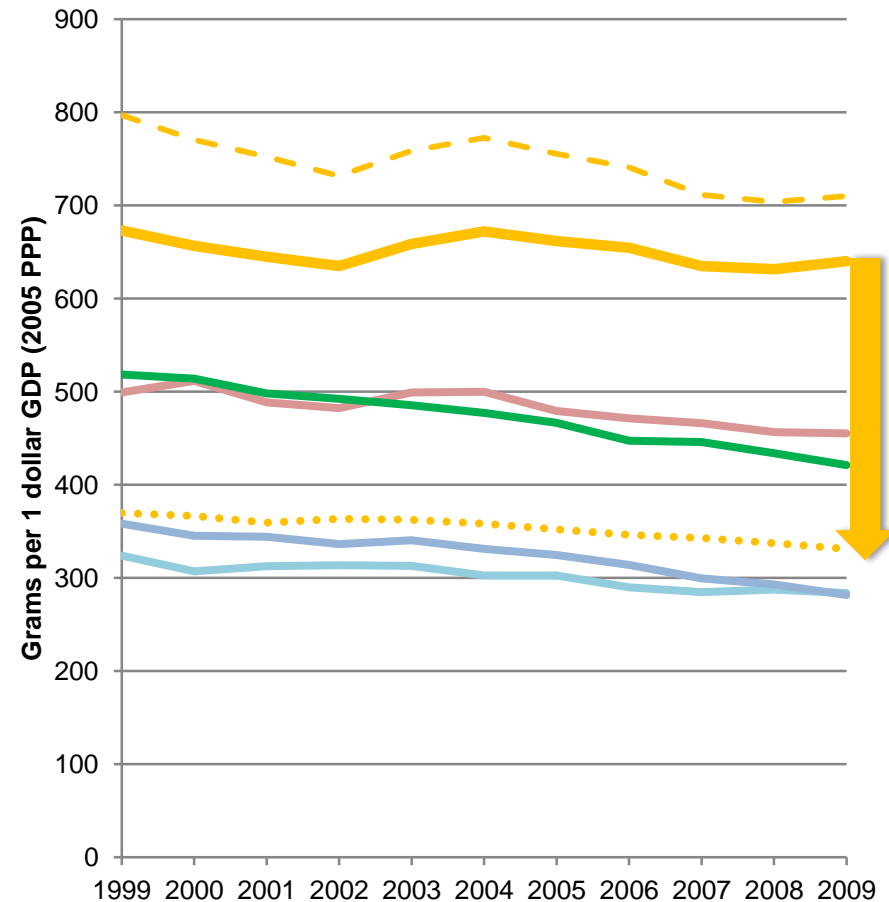
EQUITY EFFICIENCY RESILIENCE

Global Regional Primary Energy Intensity



- Asia-Pacific
- Asia-Pacific developing economies
- Asia-Pacific developed economies

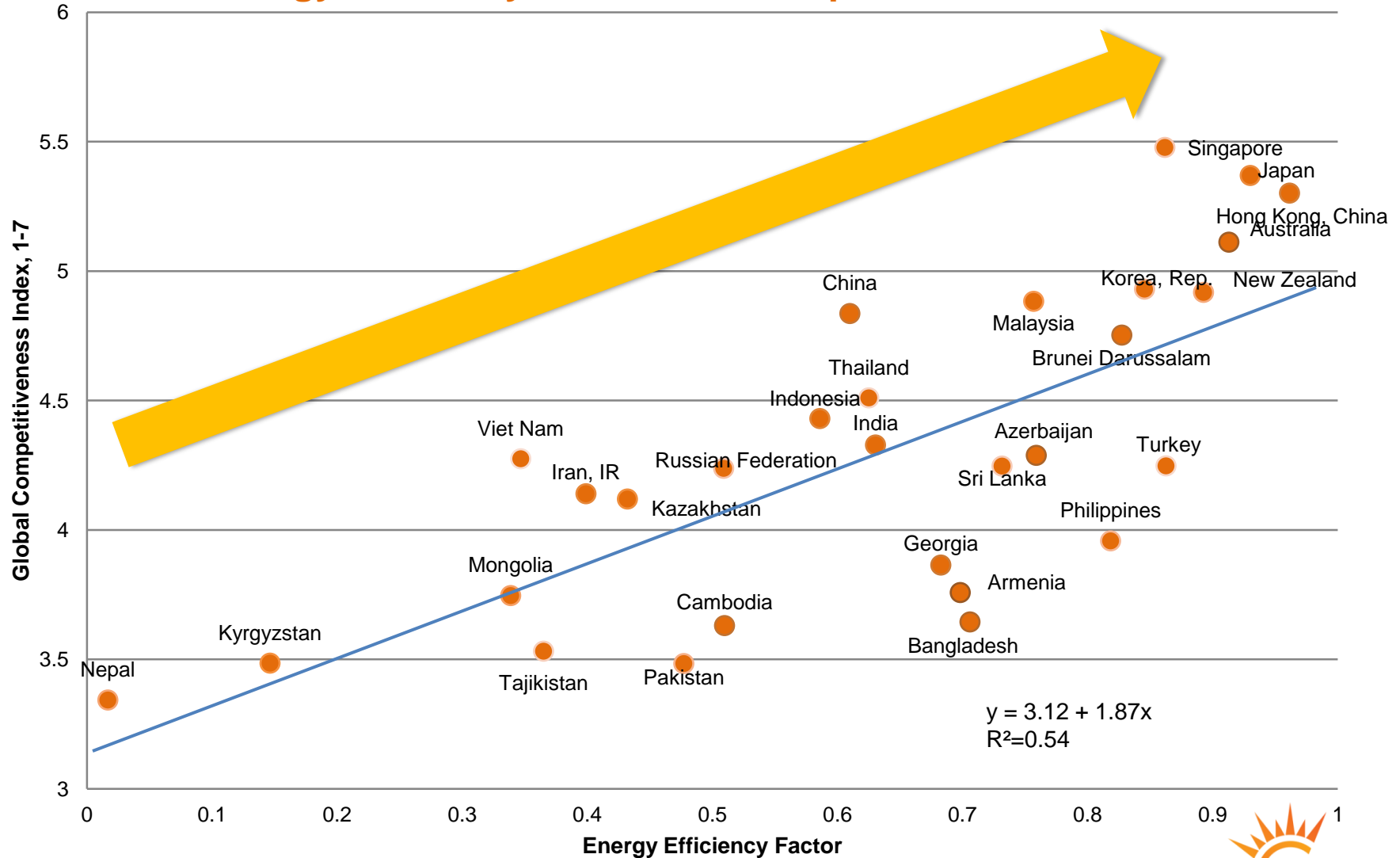
Global Regional Carbon Intensity



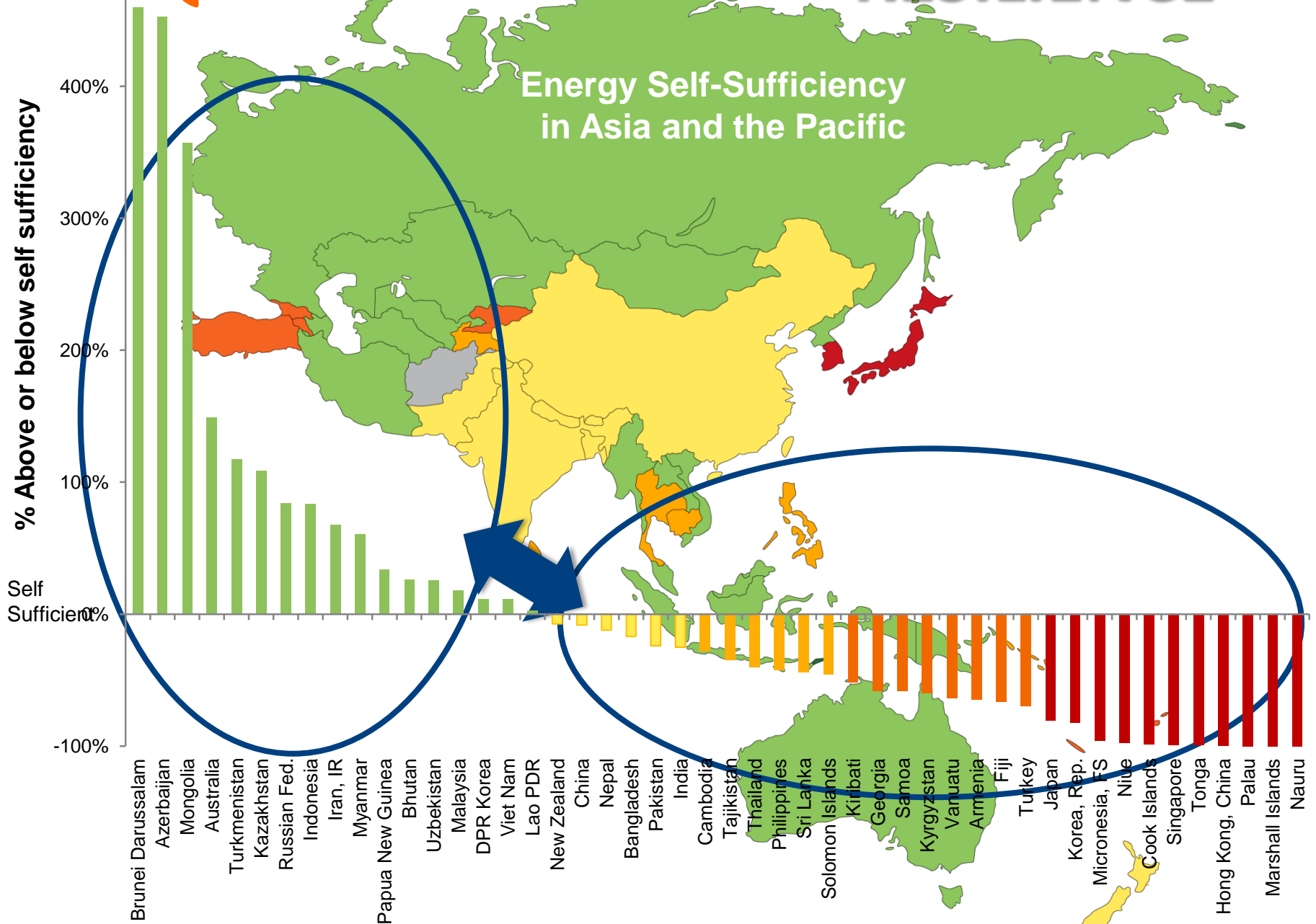
- Africa
- Latin America and Carib.
- North America
- Europe

EQUITY EFFICIENCY RESILIENCE

Energy Efficiency and Global Competitiveness, 2010



EQUITY EFFICIENCY RESILIENCE



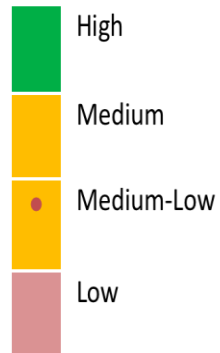
EQUITY

EFFICIENCY

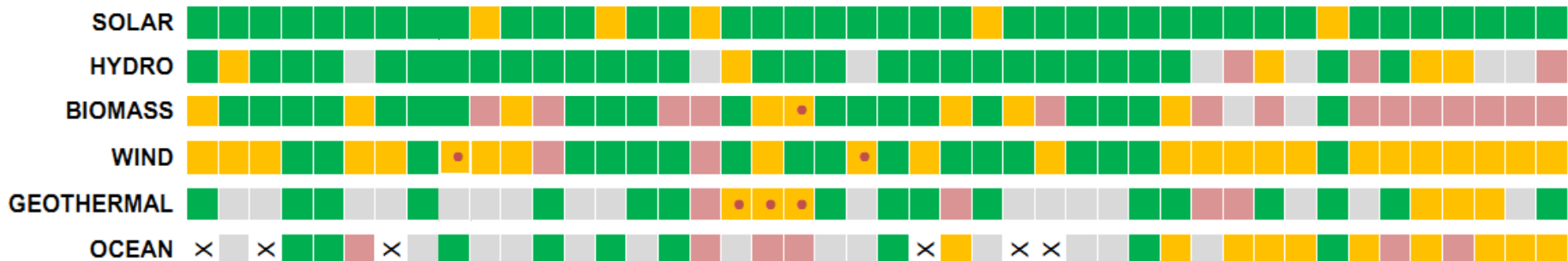
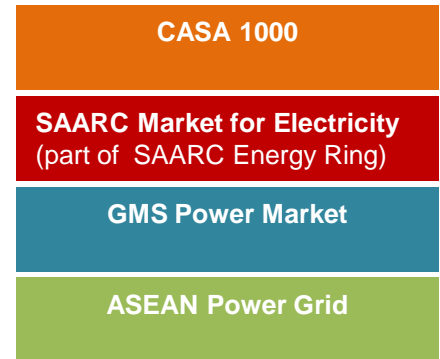
RESILIENCE

Asian Energy Highway

Selected Asia-Pacific Multilateral Cross-Border Power Interconnections



Asia-Pacific Renewable Energy Resources



ASIAN AND PACIFIC ENERGY FORUM

Ministerial Segment 29-30 May 2013, Vladivostok, Russian Federation



35 Participating countries from Asia-Pacific:

Afghanistan
Armenia
Bangladesh
Bhutan
Cambodia
China
DPRK

Fiji
India
Indonesia
Iran
Japan
Kazakhstan
Kiribati

Kyrgyzstan
Lao PDR
Maldives
Marshall Islands
Myanmar
Mongolia
Nauru

Nepal
Pakistan
Palau
Philippines
South Korea
Russian Federation
Samoa

Sri Lanka
Tajikistan
Tonga
Tuvalu
USA
Vanuatu
Viet Nam



Outcomes of APEF

I. Ministerial declaration on regional cooperation for enhanced energy security and the sustainable use of energy in Asia and the Pacific

II. Plan of Action on regional cooperation for enhanced energy security and the sustainable use of energy in Asia and the Pacific, 2014 - 2018

Plan of Action

- Plan of action presents the regional vision for cooperation on enhanced energy security and the sustainable use of energy

“An Asia and the Pacific where:

- *Sustainable energy for all is a reality*
 - *Enhanced energy security is present from regional to household levels*
 - *An energy future of equity, diversification and access to all is secured*
 - *The share of cleaner energies in the overall energy mix is increased”*
- contains initiatives addressing more specific needs of the diverse Asia-Pacific region and its sub regions
 - supports the implementation of the Declaration
 - facilitates continuous dialogue and cooperation among member States on the energy issues

Proposed areas for action

- A. Establishment of a platform for facilitating continuous dialogue and cooperation among ESCAP member States on enhanced energy security and the sustainable use of energy**
- B. Work towards universal access to modern energy services**
- C. Advance the development and use of new and renewable sources of energy**
- D. Improve energy efficiency and conservation and observe sustainability in the supply, distribution and consumption of energy**
- E. Diversify the energy mix and enhance energy security**
- F. Improve energy trade and investment opportunities to optimize the development and utilization of current and emerging energy resources**

Proposed areas for action

- G. Improve fiscal policy and financing mechanisms to incentivize and strengthen markets for sustainable energy**
- H. Improve energy statistics and facilitate data and information sharing**
- I. Minimize the environmental impact of the energy sector**
- J. Promote more efficient and cleaner use of oil**
- K. Promote the efficient and clean use of coal**
- L. Promote expanded production, trade and use of natural gas as a low-emission fuel**
- M. Promote the development of advanced energy technologies;**
- N. Develop common infrastructure and harmonized energy policies with a view to increasing regional economic integration**
- O. Promote capacity-building, education and knowledge-sharing in the field of energy**

Review and assessment

- Periodic review of the progress made based on information provided by members and associate members on a voluntary basis, as well as by collaborating international organizations
- Report submitted to the second Asian and Pacific Energy Forum, to be held not later than 2018



www.unescap.org/apecf