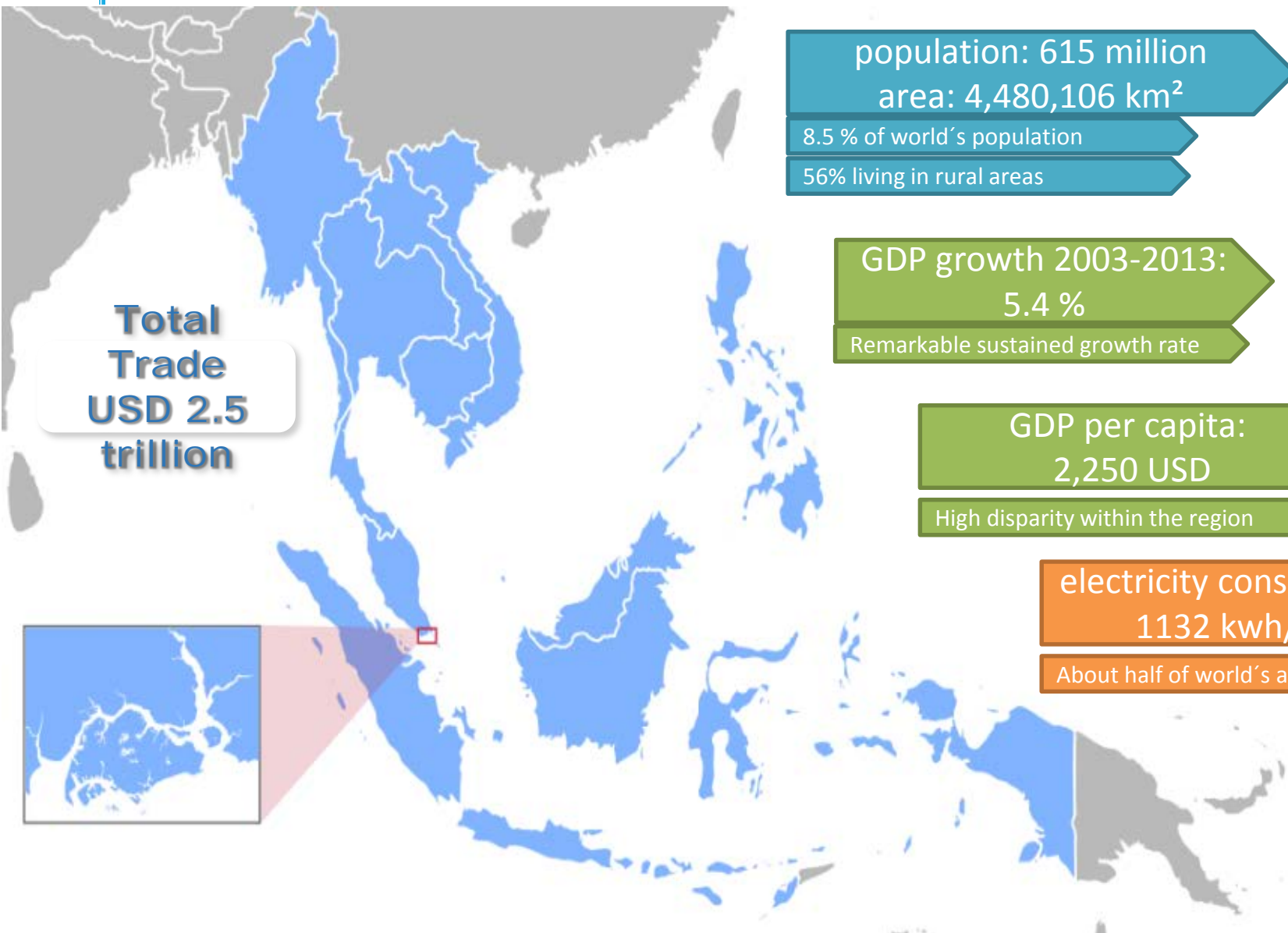


# ENHANCING QUALITY OF ELECTRIC POWER INFRASTRUCTURE



1st Workshop of APERC Initiative  
25<sup>th</sup> Aug. 2015, Tokyo.

## ASEAN: A Community of Opportunities



**Total  
Trade  
USD 2.5  
trillion**

population: 615 million  
area: 4,480,106 km<sup>2</sup>

8.5 % of world's population

56% living in rural areas

GDP growth 2003-2013:  
5.4 %

Remarkable sustained growth rate

GDP per capita:  
2,250 USD

High disparity within the region

electricity consumption:  
1132 kwh/cap

About half of world's average

energy intensity:  
0.12 koe / \$05p

world's average 0.16 koe/ \$05P

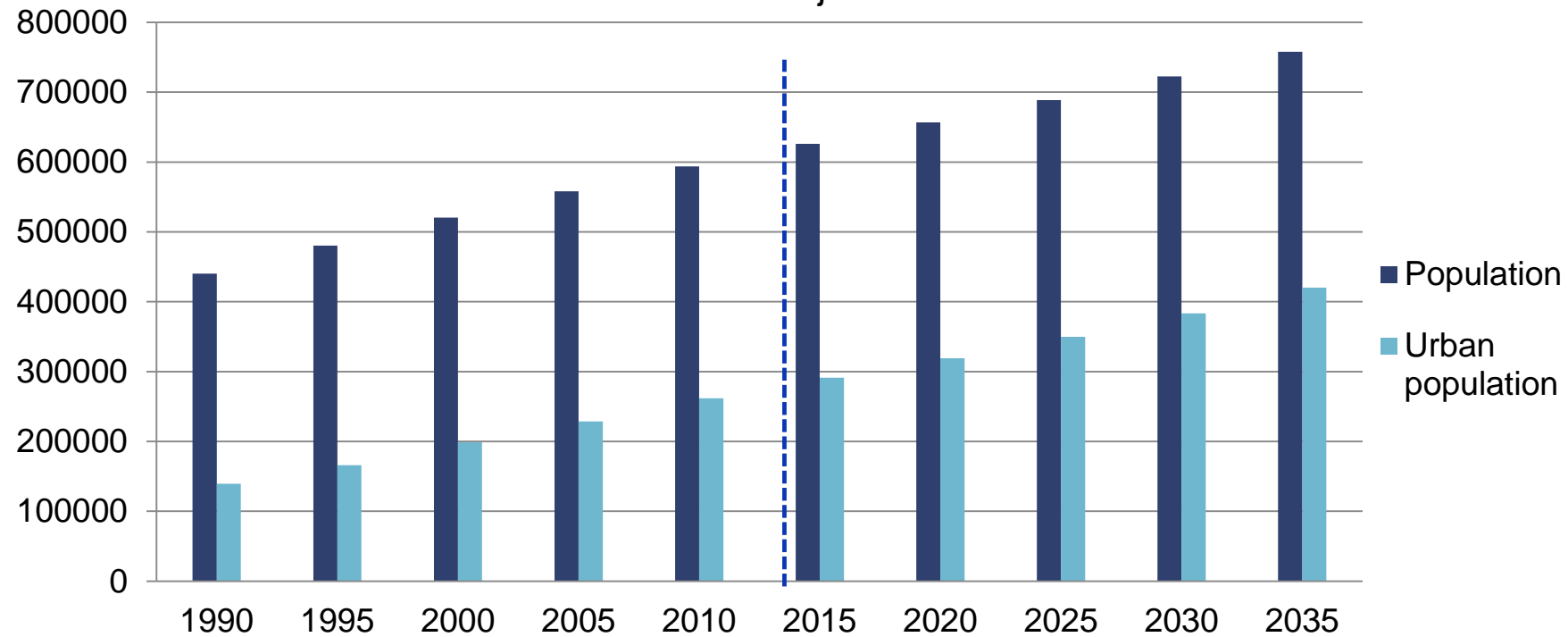
*The AEC Blueprint, signed in 2007 in Singapore ... to establish ASEAN as a single market and production base with the goal of making ASEAN more dynamic and competitive."*

## Key-Socio-Economic Parameters

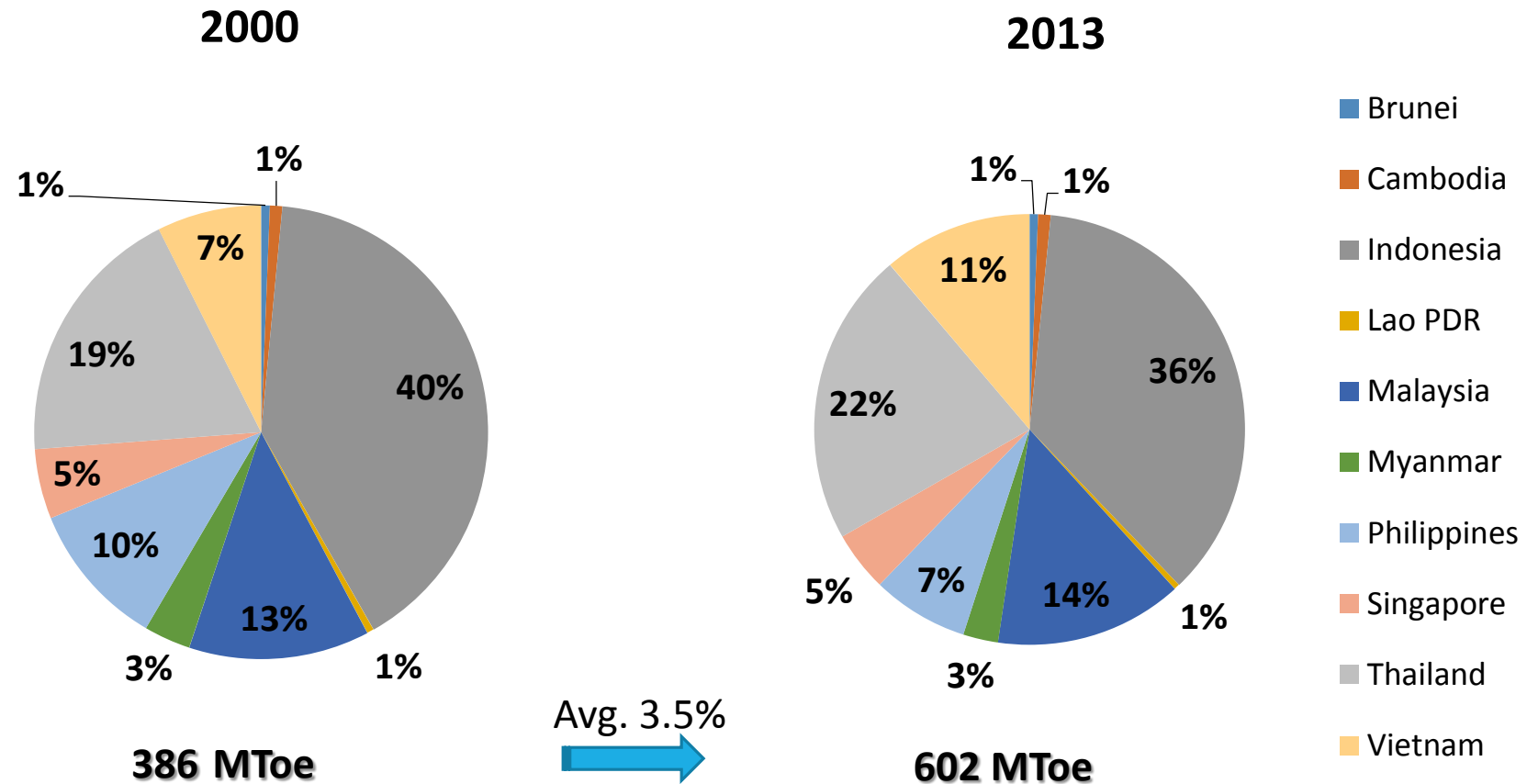
### ASEAN population and urbanization in 1000 people

Projected population growth: 0.96%

Projected urbanization rate: 1.74%



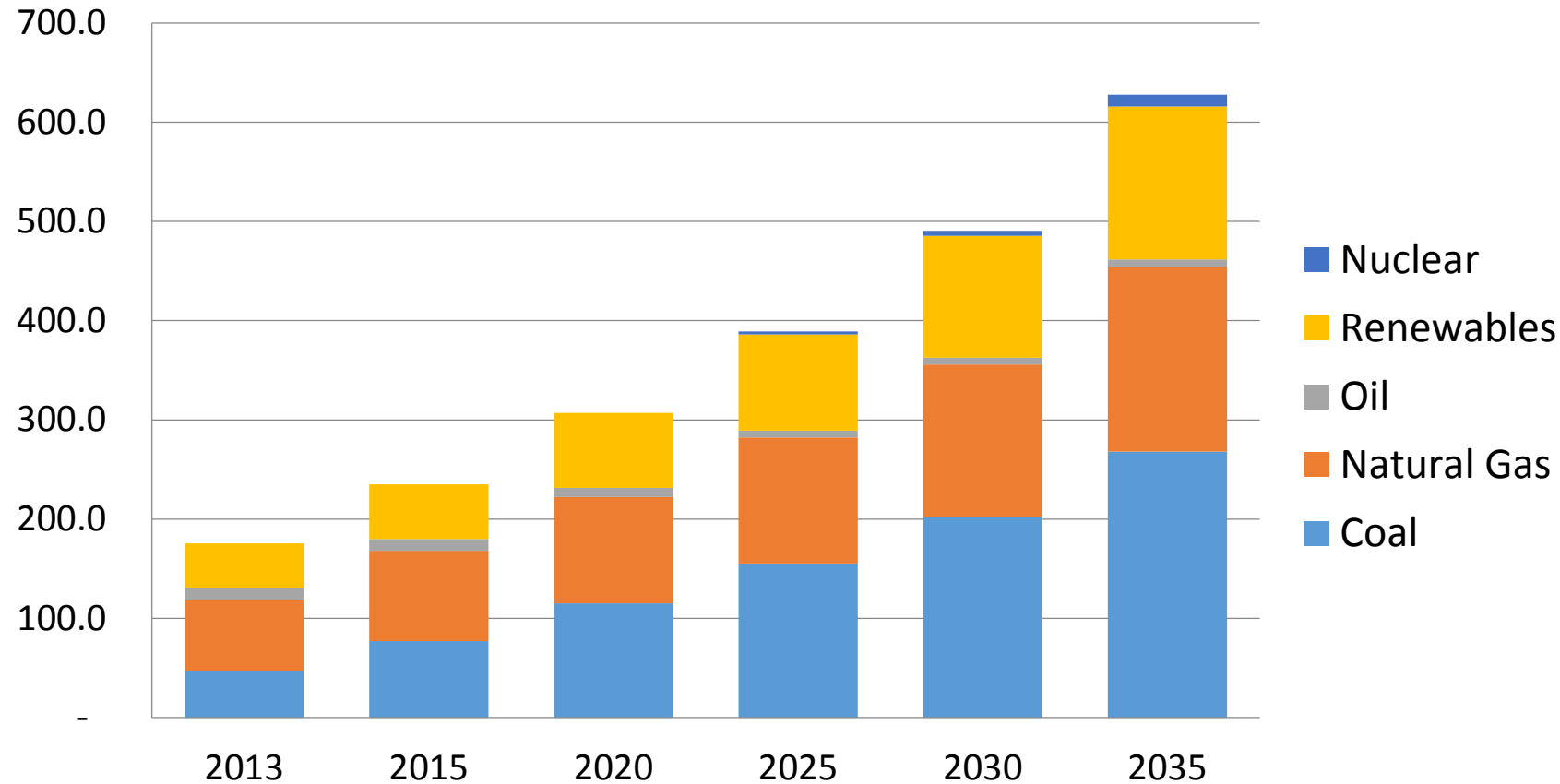
# Socio-economic and energy development in the ASEAN up to 2013



**ASEAN primary energy supply by members**

# ASEAN Energy Demand and Supply Outlook Business-as-Usual Scenario (BAU)

**Installed Capacity by Technology in GW (BAU)**



**Installed Capacity by Technology (BAU)**

## CONCLUSION

- ❖ Installed Power in 2013 is 170 GW, anticipated to be 380 GW in 2025 and 615 GW in 2035.
  - ✓ Coal at 8.3%
  - ✓ Natural Gas 4.5%
  - ✓ RE 6.9%

} avg. 6 %
- ❖ Consideration for power plant should look at both
  - ✓ EPC Phase
  - ✓ Operational Phase
- ❖ APAEC 2016–2025 Theme – : “Enhancing Energy Connectivity and Market Integration in ASEAN to Achieve Energy Security, Accessibility, Affordability and Sustainability for All”
  - ✓ Safety
  - ✓ Cost
  - ✓ Efficiency
  - ✓ Reliability
  - ✓ Availability
  - ✓ Maintainability

Thank you.

