

ADB

Asian Energy Outlook

***Originally Launched
14 October 2013***

***For Discussion at NBR
17 December 2015***

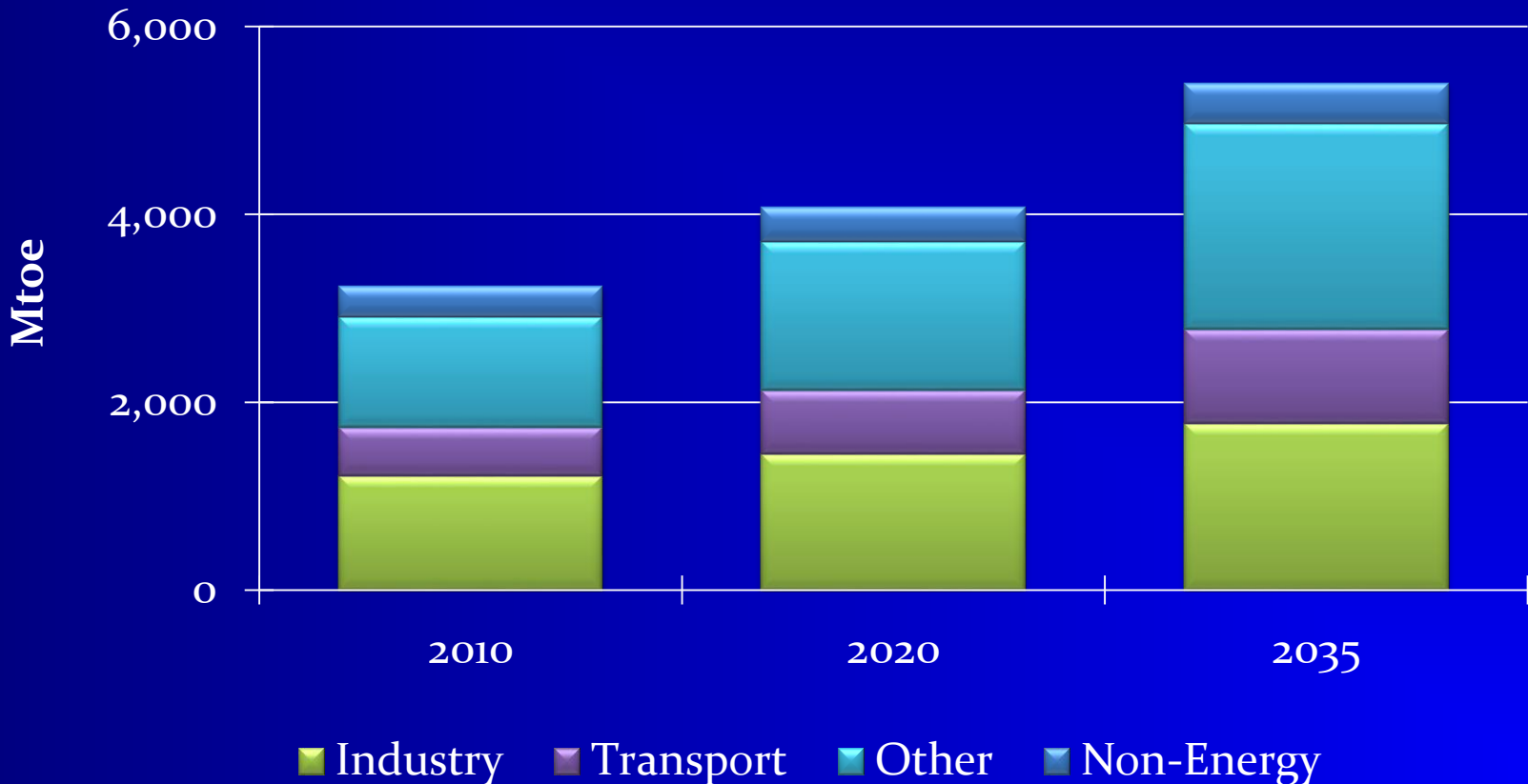
***S. Samuel Tumiwa
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North America Representative Office***



1. Increasing Energy Demand

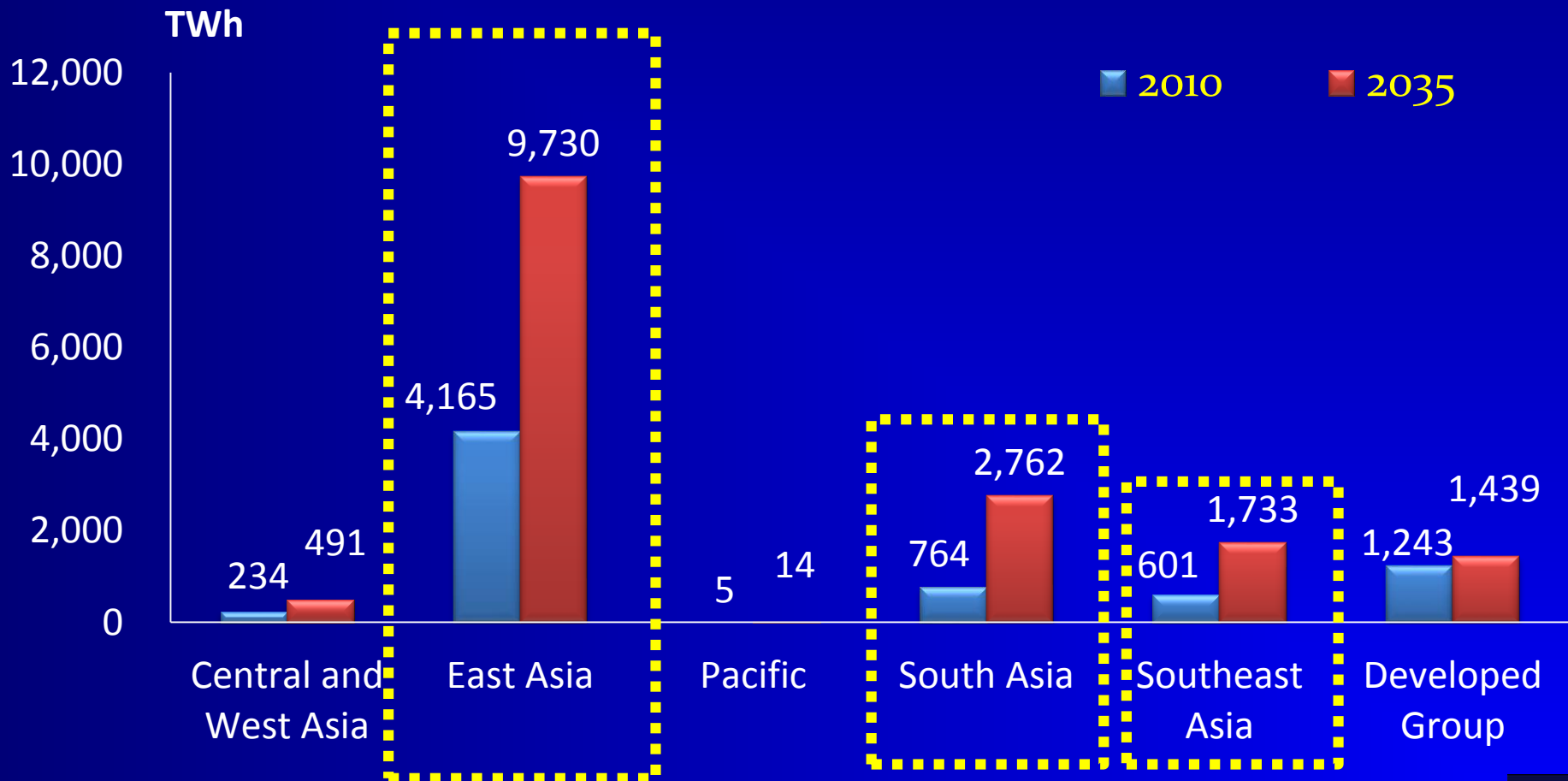
Projection: Final energy demand increase at 2.1% /yr

- 2010: 3,238.5 Mtoe ;
- 2035: 5,400.9 Mtoe;

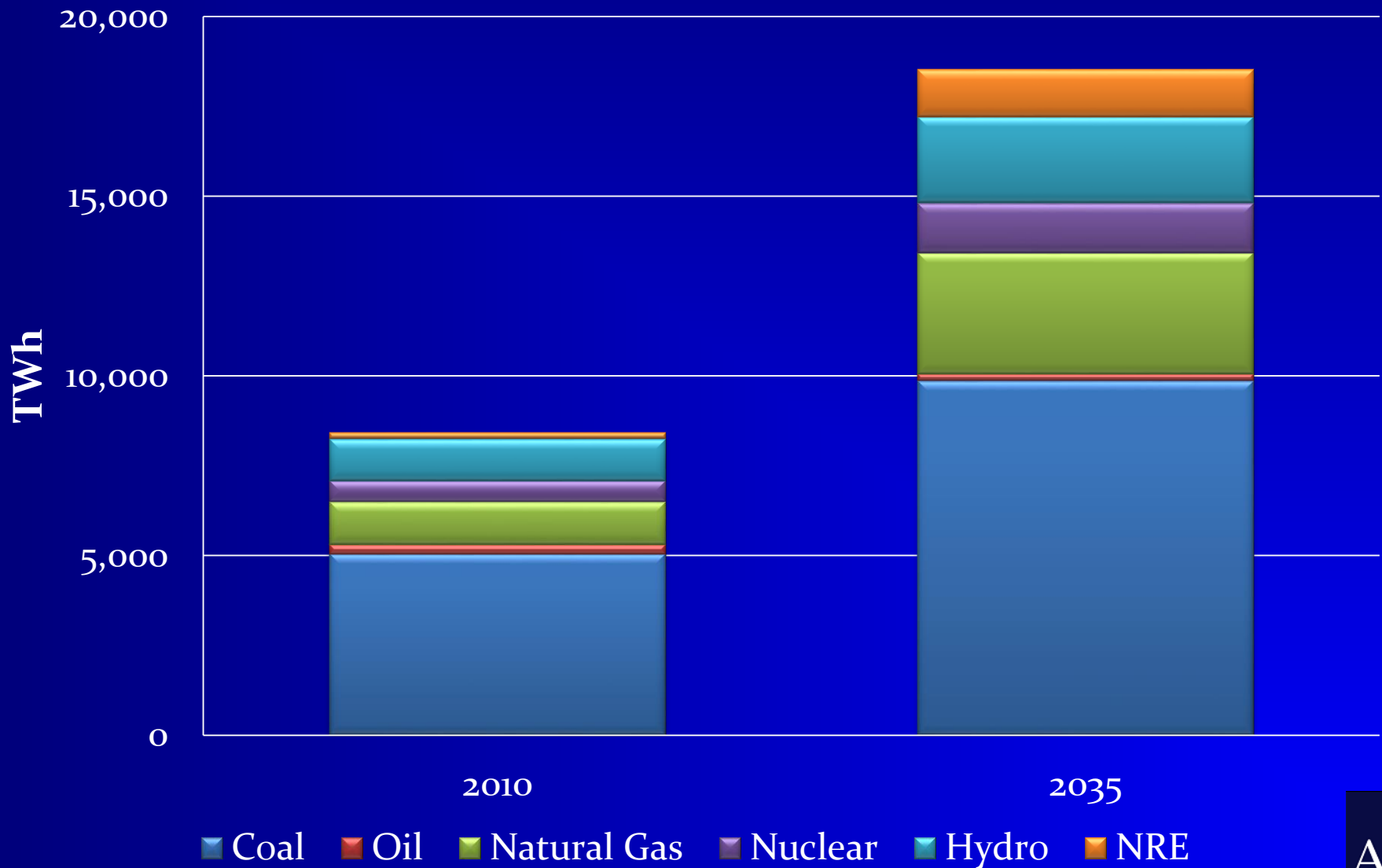


2. Electricity: Doubled btw 2010 & 2035 (3.4%/yr)

- 2010: 7,010 TWh;
- 2035: 16,169 TWh;



3. Fossil Fuels Still Dominates Electricity Mix

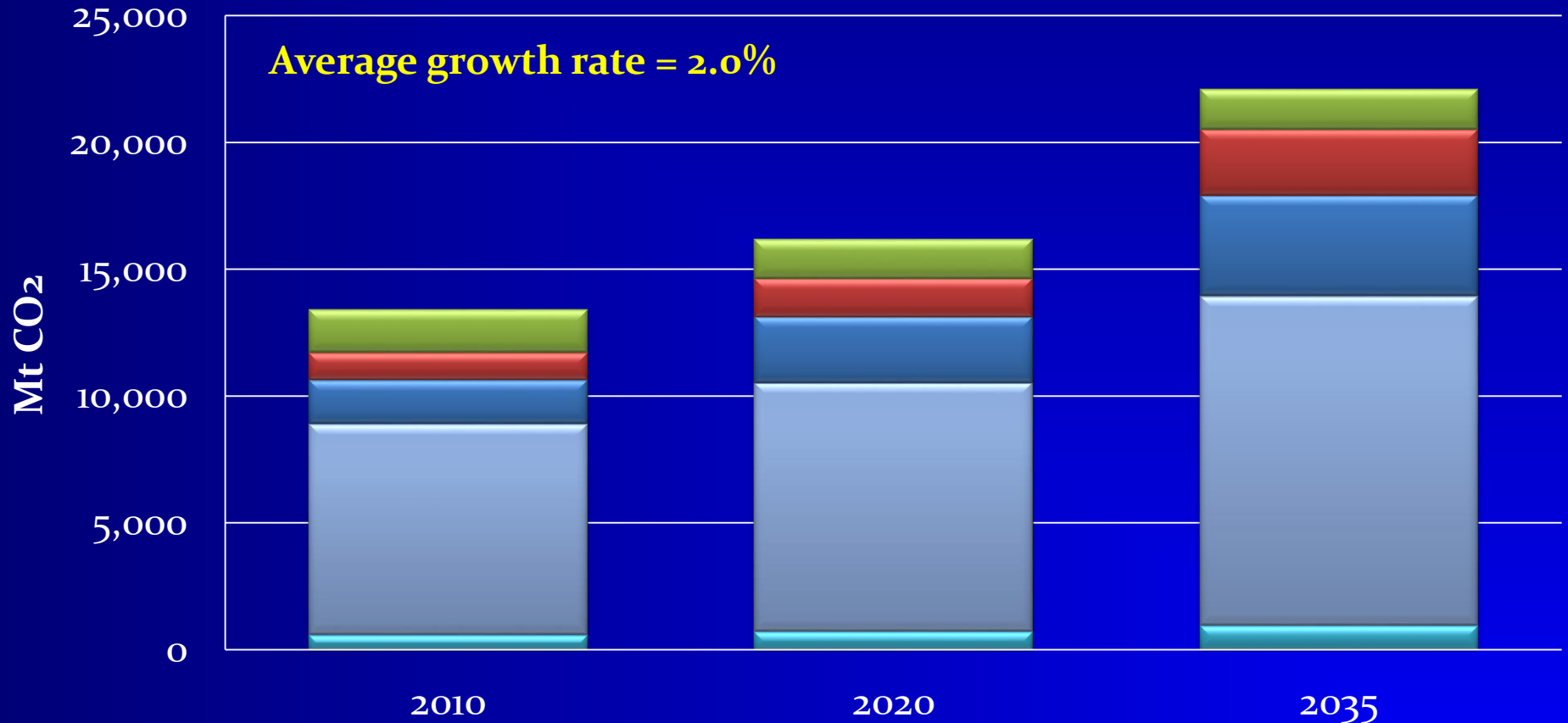


4. CO₂ Emission (2010-2035)

2010: 13,404.0 million tons

2020: 16,184.8 million tons

2035: 22,112.6 million tons



Central and West Asia

East Asia

Pacific

South Asia

Southeast Asia

Developed Group

5. Projected Investment in Energy Sector by 2035

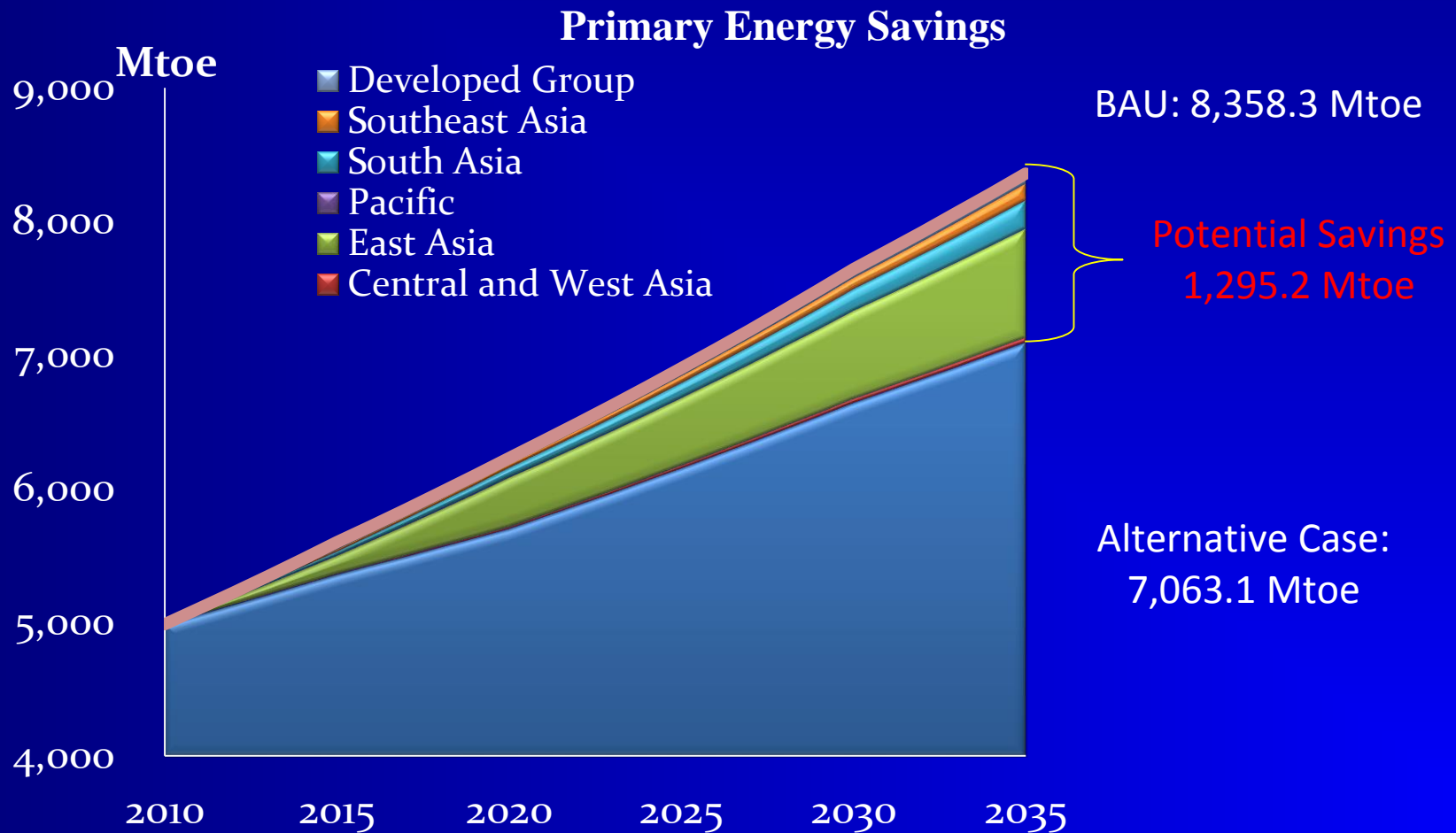
- **Cumulative investments by 2035 : \$11.7 trillion**
- **More investment in developing members**

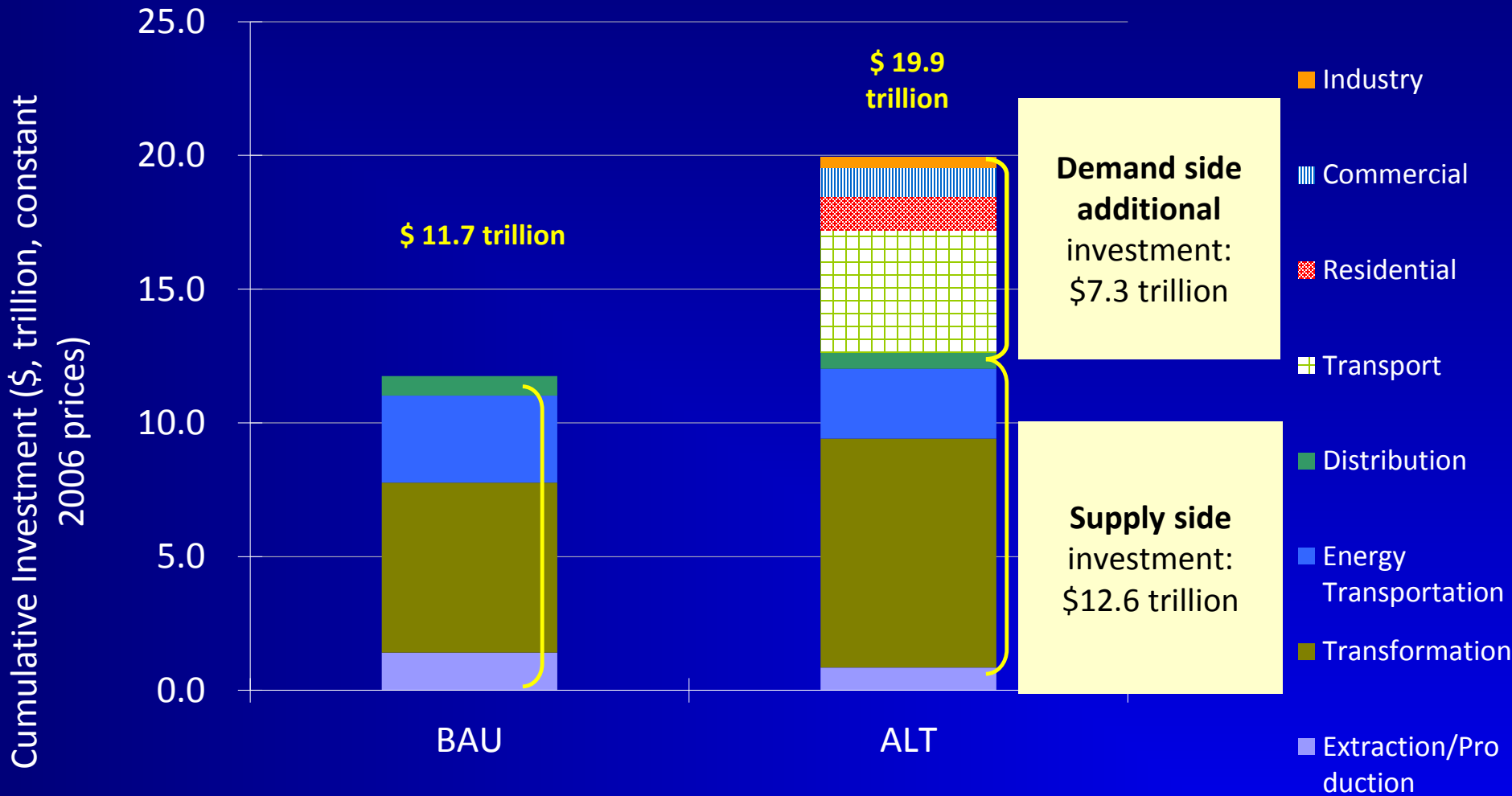


6. Energy Saving and CO₂ Mitigation Potential

By 2035, BAU vs Alternative

- **Primary energy savings: 1,295.2 Mtoe**
- **CO₂ emissions reduction: 6104.3 Mt**





Investment requirements for BAU and Alternative Cases

Policy Implications

- 1. Energy Security: continue rely upon imported fossil fuel, such as oil and gas**
- 2. Demand for coal will grow by 50% for economic and technical needs but at slower pace due to EE and RE development in PRC**
- 3. Demand side energy-efficiency is very important**
- 4. Rehabilitate and/or phase out aging, unreliable, and low efficiency power plants**
- 5. Regional cooperation is needed**
- 6. Large amounts of investments is required**

The ADB logo consists of the letters 'ADB' in a white, serif font, set against a dark blue square background. The background of the entire slide is a light blue map of the world with a grid of latitude and longitude lines.

ADB

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