

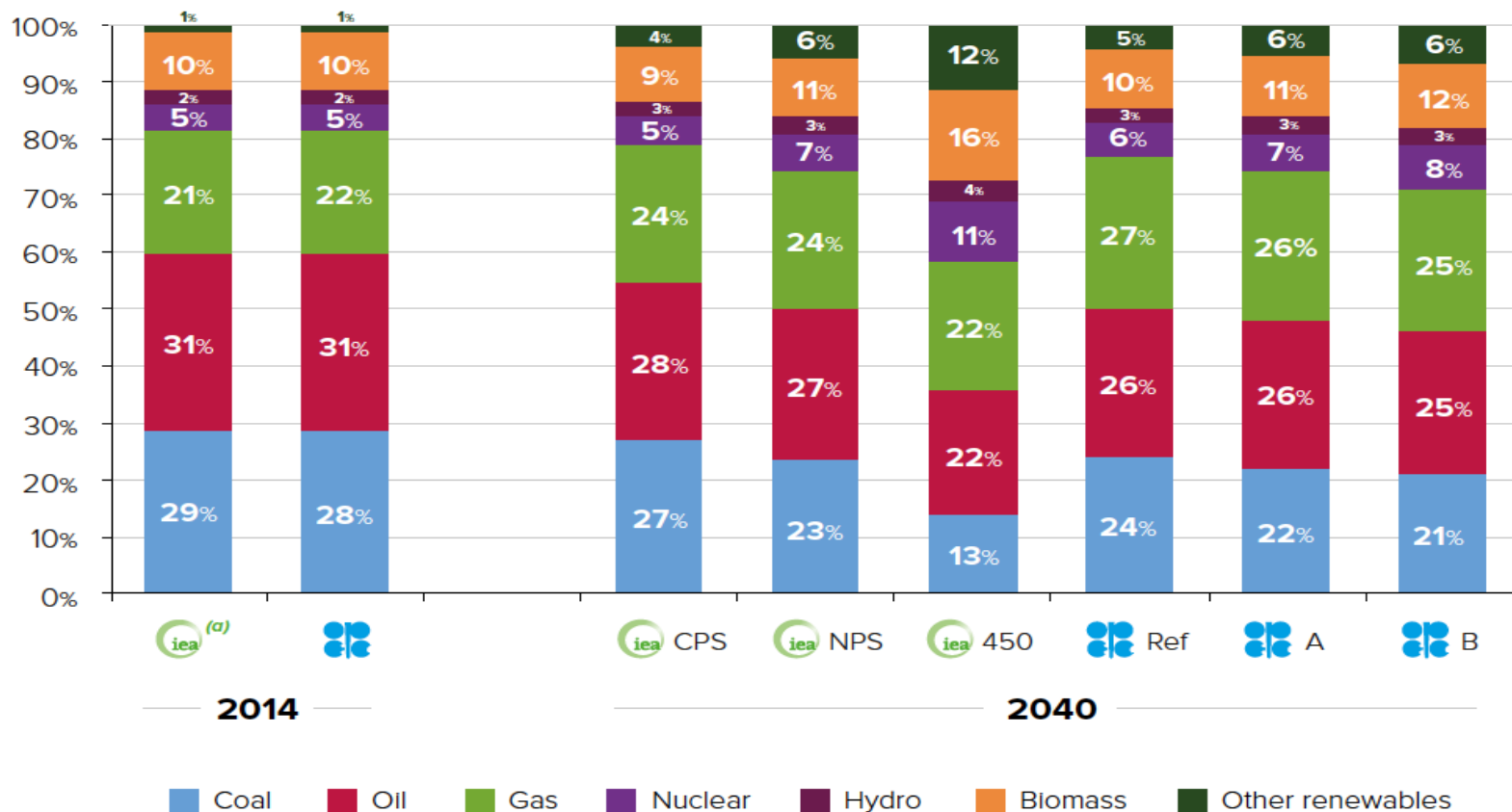


**Plenary Session I Oil markets:**  
Investment and Security challenges in a world in transition

**Dr Sun Xiansheng**  
Secretary General, IEF Riyadh

# Fossil ranges between 57% and 79% in 2040 in IEA and OPEC 2016 outlooks

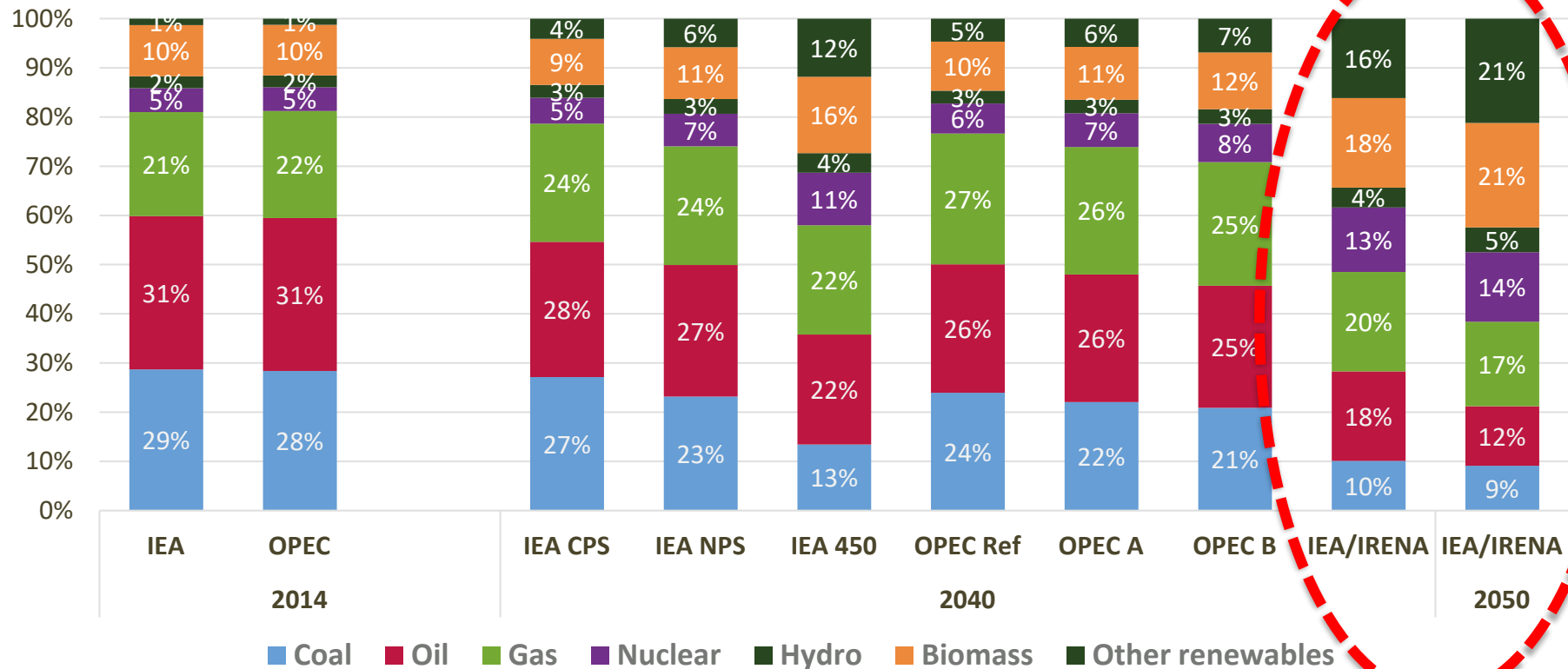
## World Primary Energy Fuel Shares in 2014 and Outlook for 2040



# But impact may well surprise 48% - 38%

## Accelerated renewable deployment and electrification

IEA and OPEC Outlooks on World Primary Energy Supply and joint IRENA  
IEA Perspectives for the Energy Transition

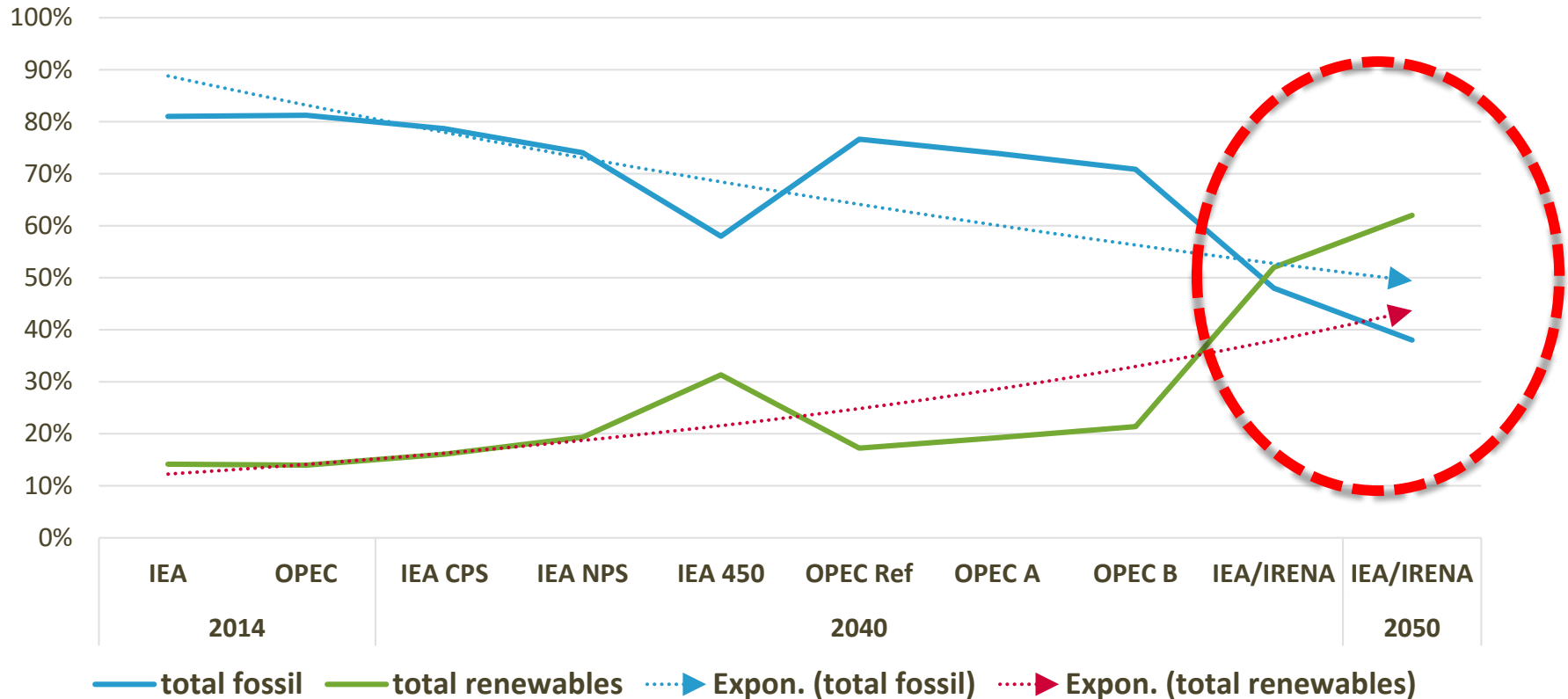


IEF Comparative Analysis Sources: IEF-Resources for the Future Introductory Paper for the Sixth IEA-IEF-OPEC Symposium on Energy Outlooks February 2016, OECD/IEA and IRENA 2017 Perspectives for the Energy Transition (66% 2°Celsius Scenario), OECD/IEA WEO 2016. OPEC WOO 2016

# 2050: 50% Fossil Fuel 50% Renewables

Variability weakens confidence and accentuates market volatility

IEA OPEC IRENA Fossil Fuel and Renewable Shares Across Scenarios

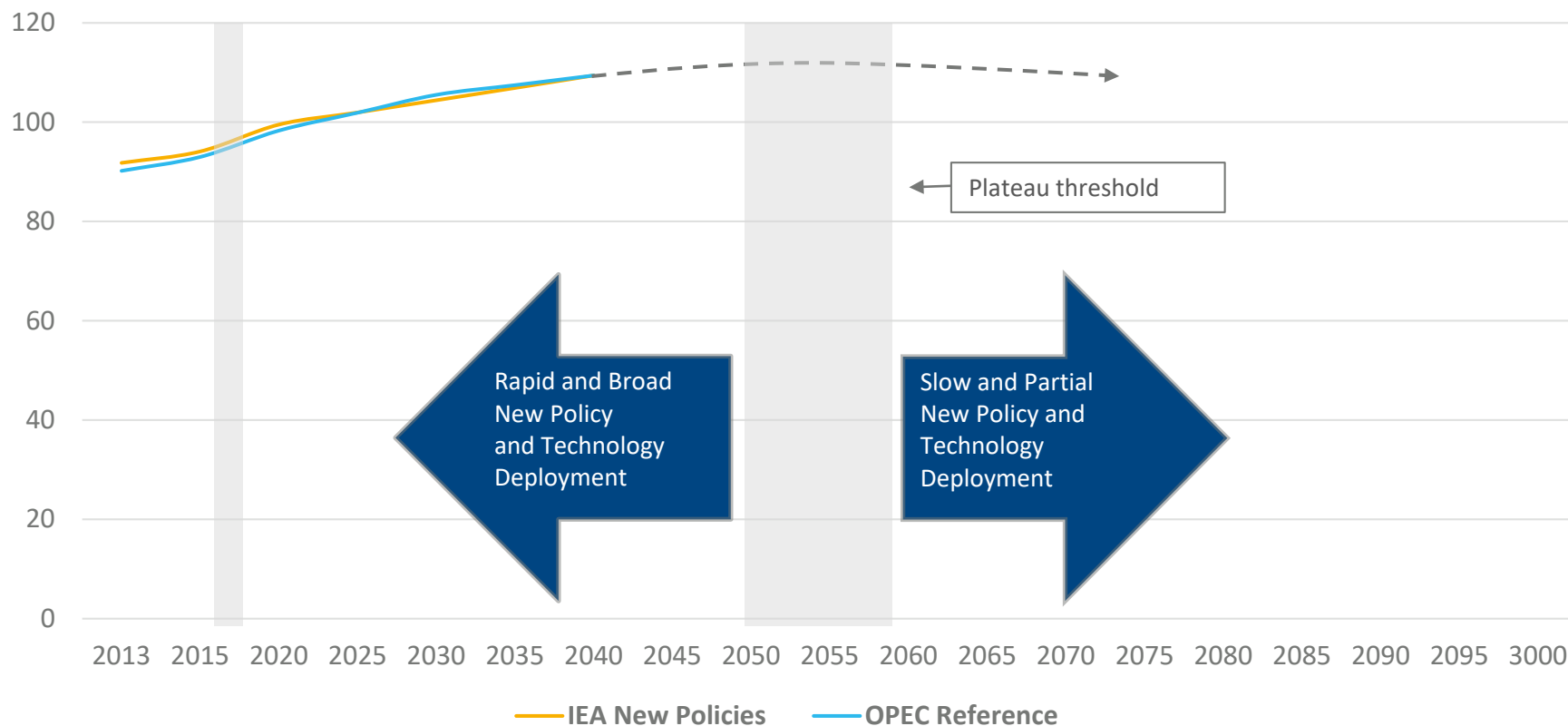


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# Policy and Technology Cooperation is key

Depth and breath of dialogue and cooperation will decide pace of change

### Indicative Extra Long-term Projections



Based on extrapolation of 2016 IEA, OPEC Long-Term Projections

# 2017

## Proposals:

**Strengthen JODI**



**Transparency  
+ Information**

**Full use of IEF Platform**



**Dialogue  
& Cooperation**

**Action on new trend**



**Green, Low Carbon,  
Efficient, Sustainable**

# Opportunities for Dialogue

- 1. 8<sup>th</sup> Joint IEA-IEF-OPEC Symposium on Energy Outlooks**  
February 2018 | Riyadh, Saudi Arabia
- 2. 16<sup>th</sup> IEF Ministerial Energy Forum**  
10-12 April 2018 New Delhi, India





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Through Dialogue

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