

*Joseph Jacobelli*

# ASIA'S ENERGY REVOLUTION

CHINA'S ROLE AND NEW OPPORTUNITIES  
AS MARKETS TRANSFORM AND DIGITALISE



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@JJenergy

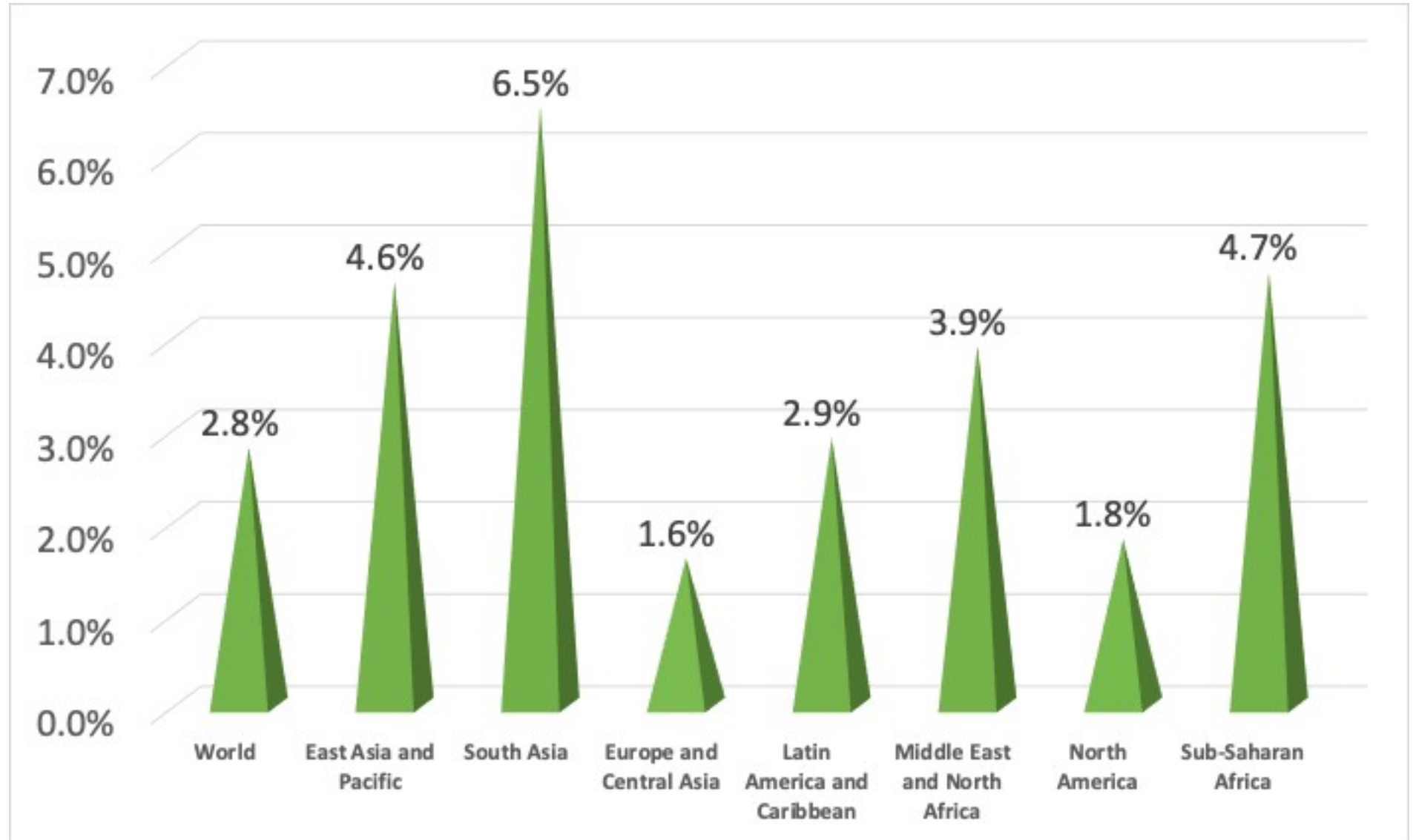


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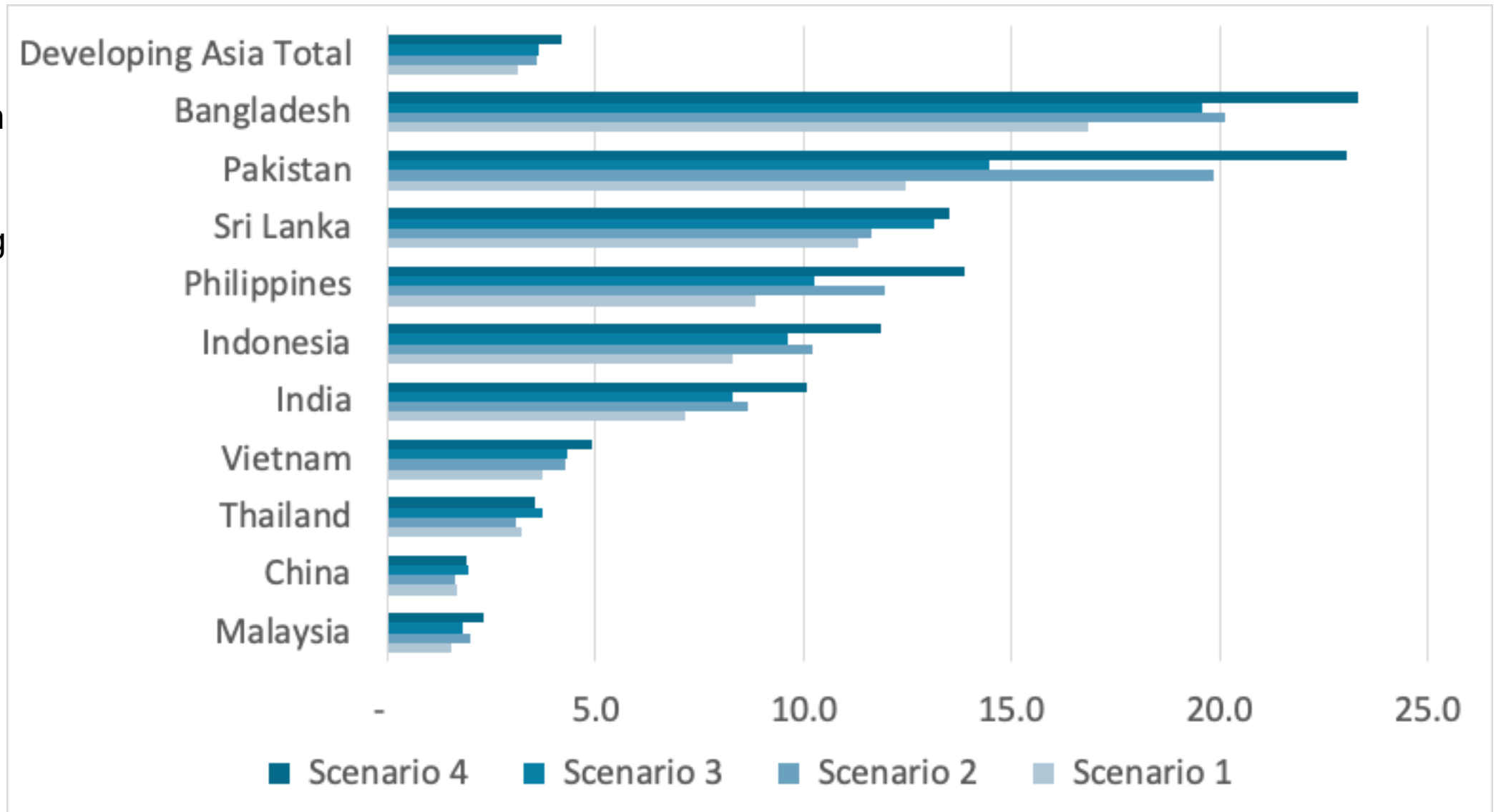


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## World Average Annual GDP Growth 2000–2018.



Potential Power Generation Multiple Growth in Developing Asia 2050 versus 2018 (times)



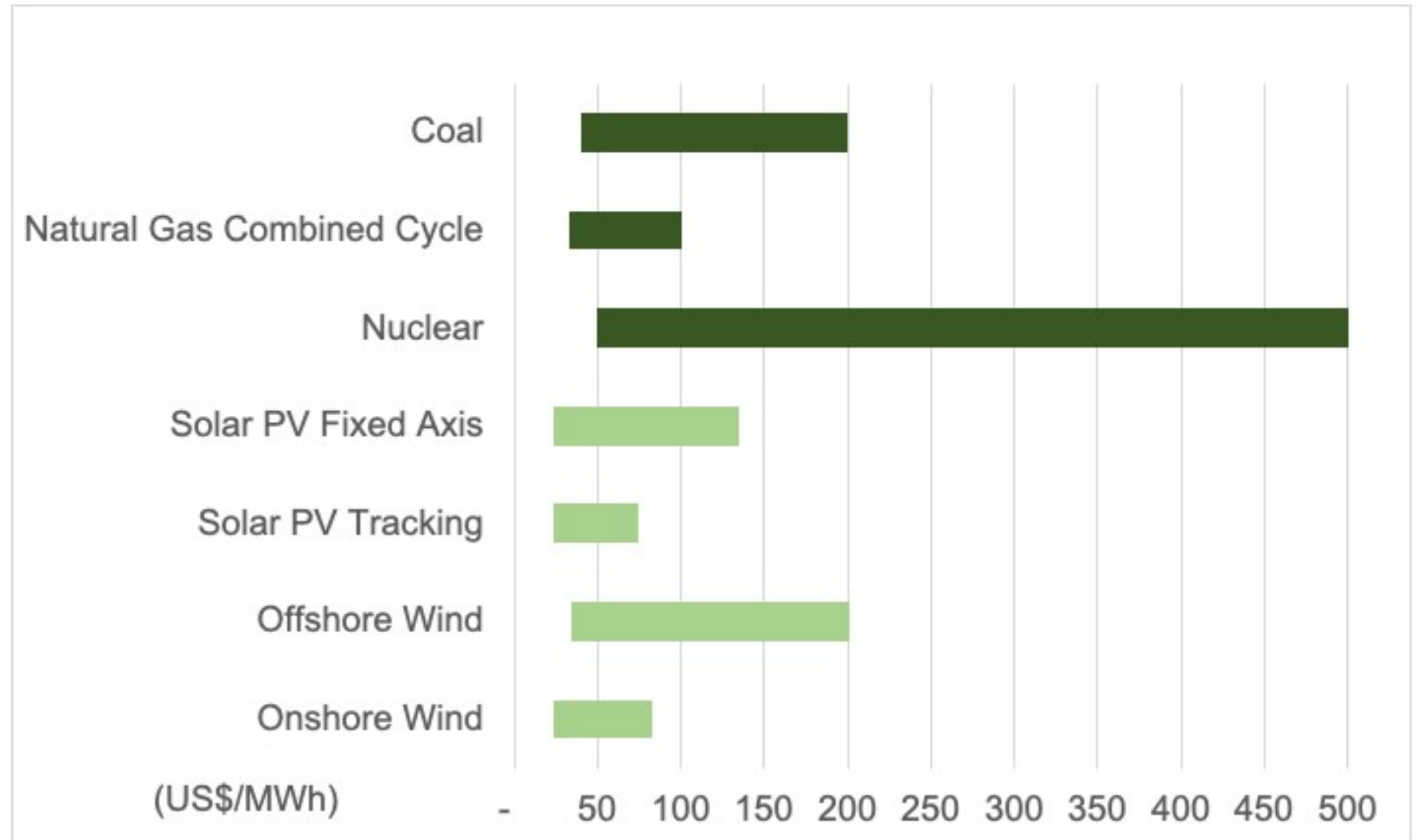
Status of Electric Power Market Reform in Key Asian Economies

	Reform	Reform Plans	No Clear Plans
Australia	✓		
Bagladesh			✓
Cambodia			✓
China	✓		
Hong Kong S.A.R.			✓
India	✓		
Indonesia		✓	
Japan	✓		
Laos			✓
Malaysia		✓	
Mongolia			✓
Myanmar			✓
New Zealand	✓		
Papua New Guinea			✓
Singapore	✓		
South Korea		✓	
Taiwan (China)		✓	
Thailand		✓	
Vietnam		✓	

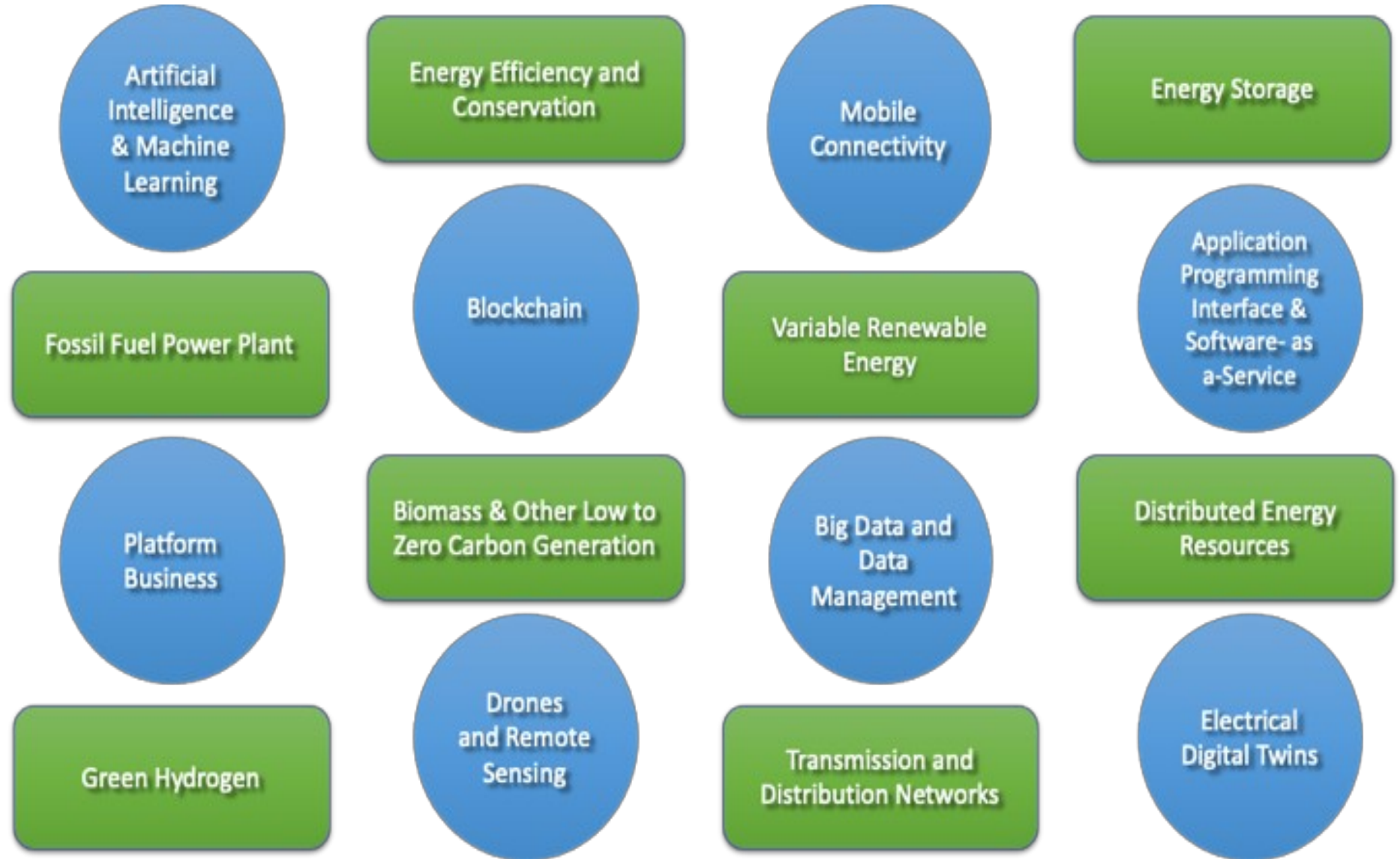
IRENA's  
Renewable  
Energy Forecasts

	Transforming Energy Scenario		
	2018 - 2019	2030	2050
VRE Share in Generation	10.0%	35.0%	61.0%
Hydro	1,189	1,444	1,822
Pumped Storage	121	225	325
Solar	582	3,227	8,828
Wind	624	2,526	6,044
Total	2,516	7,422	17,019

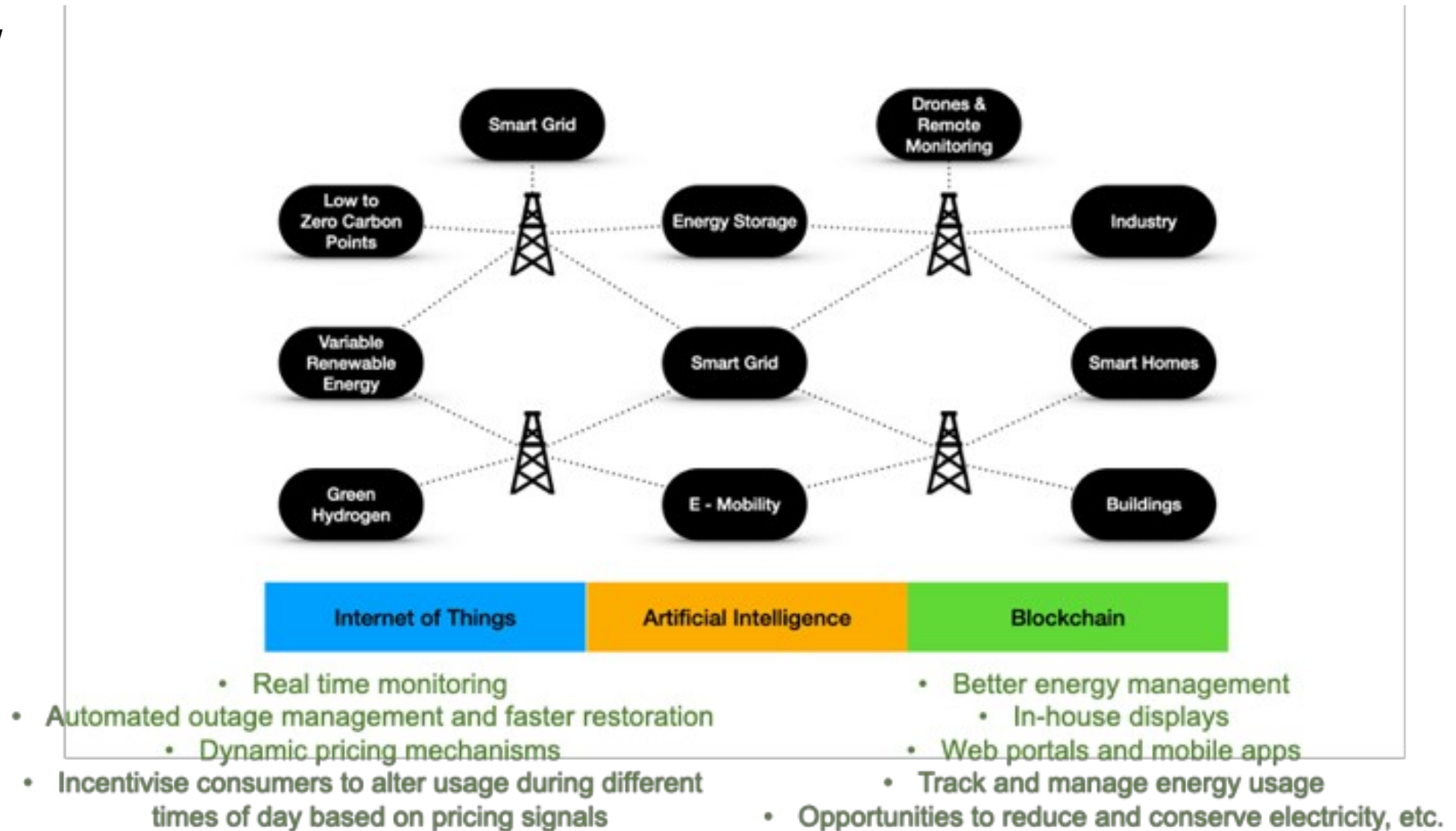
## Lazard's Cost of Energy Comparison – Unsubsidised Analysis



## Summary of Energy Industry Intersection with Energy 4.0

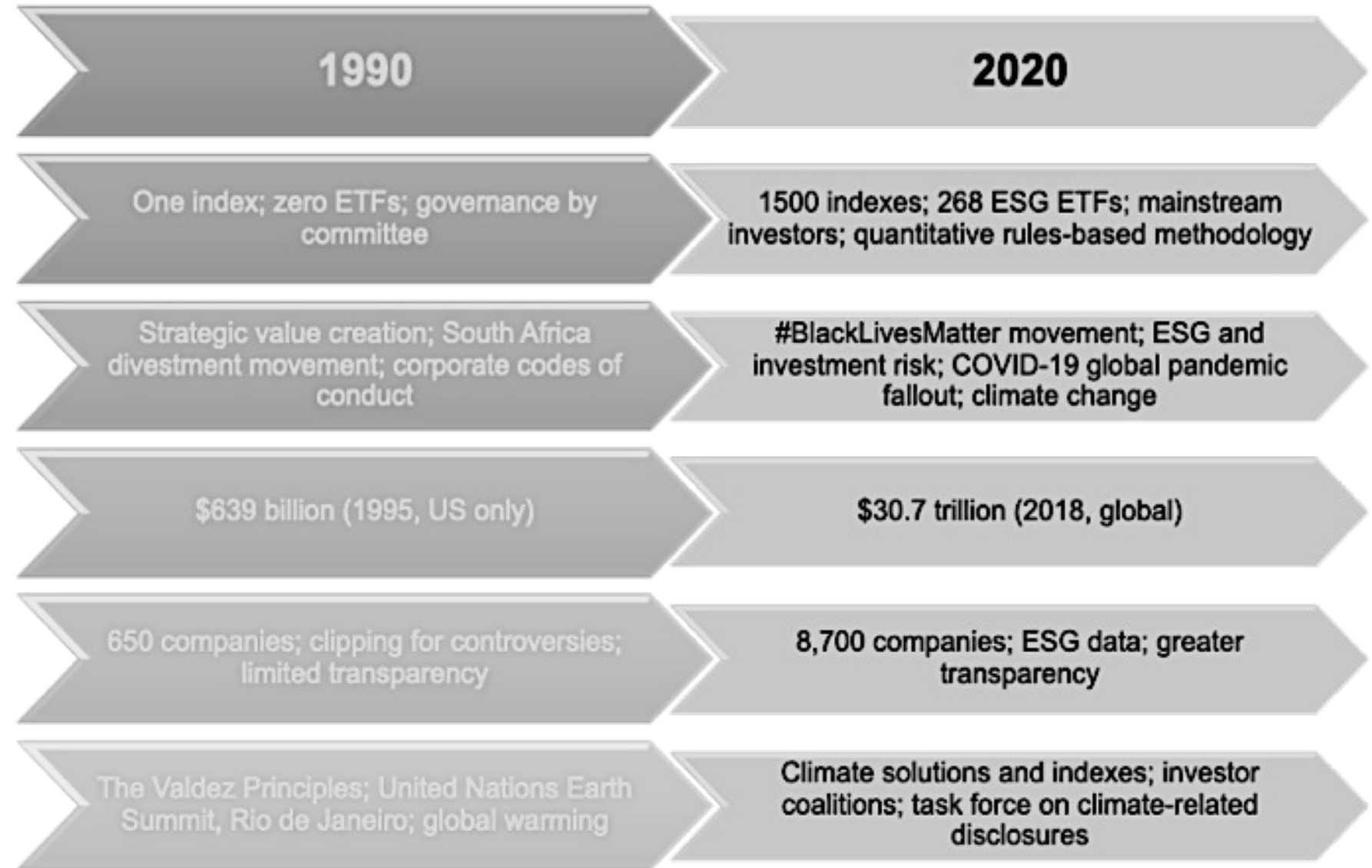


## Schematic View and Some Features of Smart Grid





## Thirty Years' Evolution of MSCI ESG Indexes



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