25/26 SEPTEMBER 2019 MARZIA ZAFAR

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Energy Transition Toolkit





Insights tool

World Energy Issues Monitor: reality check - global, regional, national energy leaders perspectives on the key challenges



Energy Policy Trilemma: policy pathfinding to manage security, equity and sustainability through transition



World Energy Scenarios: a tool for bigger picture thinking, revealing deeper assumptions and reframing choices and options



Innovation Insights: digging deeper into disruptive dynamics and moving transition innovation from the margins to mainstream



Dynamic Resilience: better prepare firms for new shocks and stresses and adapt whole systems to emerging and systemic risks

Issues Monitor

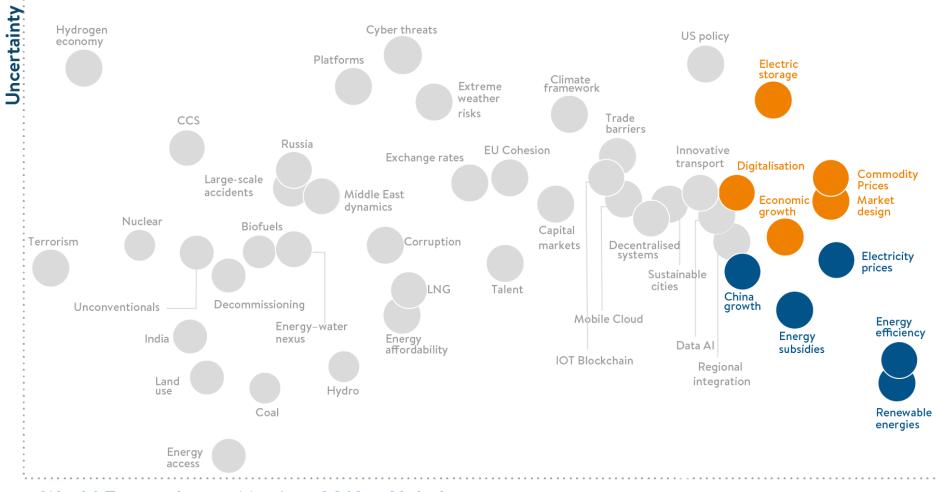
The Issues Monitor identifies shifting patterns of connected issues which are shaping energy transitions



- Reality check global, regional, national energy leaders perspectives on the key challenges
- A hub for forward-thinking and useful insights based on survey results (data)
- Use survey data to help MCs understand and take advantage of accelerating change.
 - Identify trends and patterns that illustrate a path towards transition.
 - Identify risks & opportunities based on collecting 10 years of data (tracking).

Global Issues Map

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World Energy Issues Monitor 2019 - Global

Critical uncertainties: what keeps energy leaders awake at night

Action priorities: what keeps energy leaders busy at work





Deep dive into an issue: nuclear



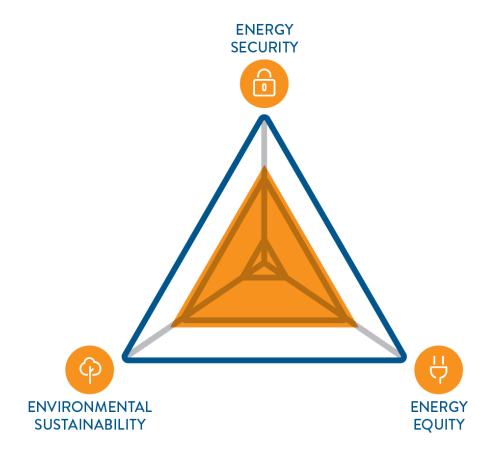
Governments in Europe All responses Europe 3 3 3 2.8 2.8 2.8 2.6 2.6 2.6 2.4 2.4 2.4 2.2 2.2 2.2 Average of Issues Monitor results* Average of Issues Monitor results* 2 2 Average of Issues Monitor results* 1.8 1.8 1.8 1.6 1.6 1.6 1.4 1.4 1.4 1.2 1.2 1.2 2015 2015 2016 2014 2015 2016 2017 2014 2016 2014 2017 2018 2018 2017 2018 Year of the Issues Monitor Year of the Issues Monitor Year of the Issues Monitor Impact Urcertainty

New era for nuclear in Europe?

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Energy Trilemma – policy pathfinding tool





- The Trilemma provides a scalable conceptual framework to assess energy policy performance using dimensions of security, equity and sustainability
- It aims to support stakeholders have an informed and continuing dialogue about improving energy policy to better navigate the energy transition





TOP 10 OVERALL RESULTS

- 1. Switzerland
- 2. Sweden
- 3. Denmark
- 4. United Kingdom
- 5. Finland
- 6. France
- 7. Austria
- 8. Luxembourg
- 9. Germany

10. New Zealand

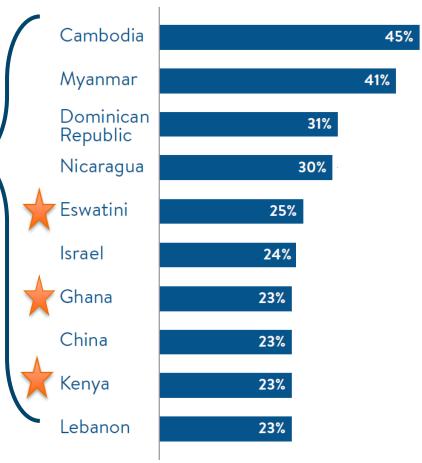
Not too different to previous reports as energy policies relatively stable

Further improvement among top performing countries more challenging – incremental rather than step-change but greater focus on sustainability

> Key drivers of positive change include extended access, increasing electrification and investing in infrastructure

Reflect a diversity of positive developments that range between small changes significantly boosting to low starting points to fundamental and rapid transitions of energy systems





2019 highlights

- There has been a general trend of improving Trilemma performance since 2000
 - 119 countries have improved over the 20-year period has improved overall Trilemma scores
 - o only 9 countries have declined
- The rate of improvement in overall Trilemma performance increases as the transition progresses and encourages further policy progress
- The energy transition is increasingly characterized by step-changes in the sustainability dimension - improved performance can have cobenefits with the security dimension



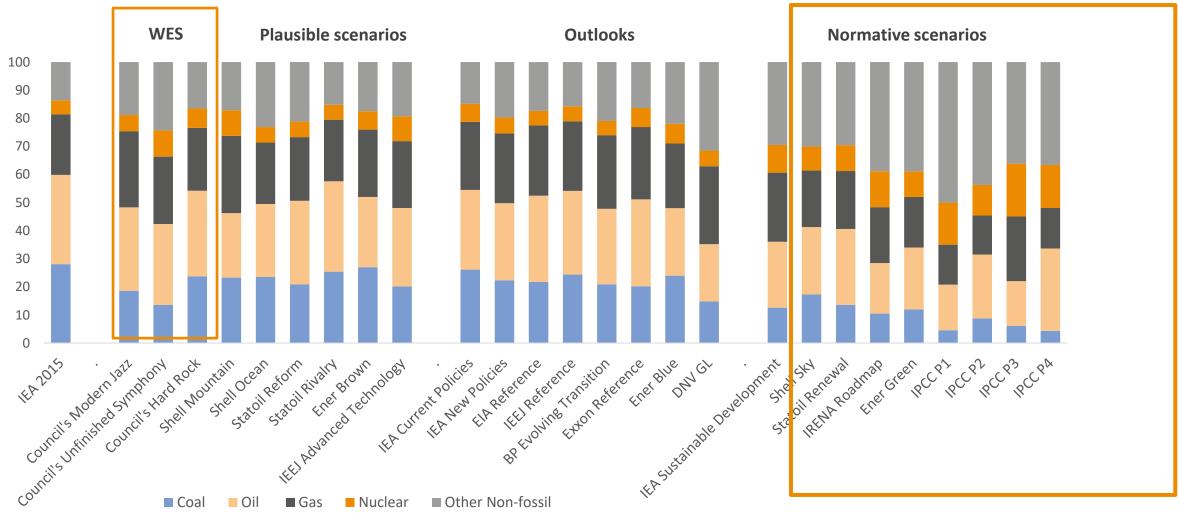


SCENARIOS Bigger picture thinking tool





Global scenarios comparison: Primary Energy mix by 2040 (%) ORLD COUNCIL



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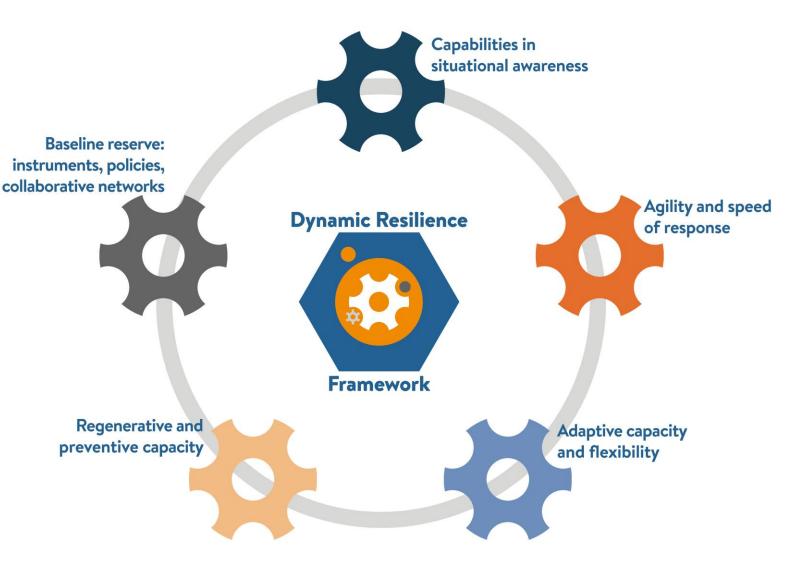




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Dynamic Resilience Framework

- An enabling framework for managing emerging and systemic risks to energy systems and firms
- Helps enable energy firms and communities to improve their approach to resilience to endogenous or exogenous shocks and disruptive innovations



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Thank you