

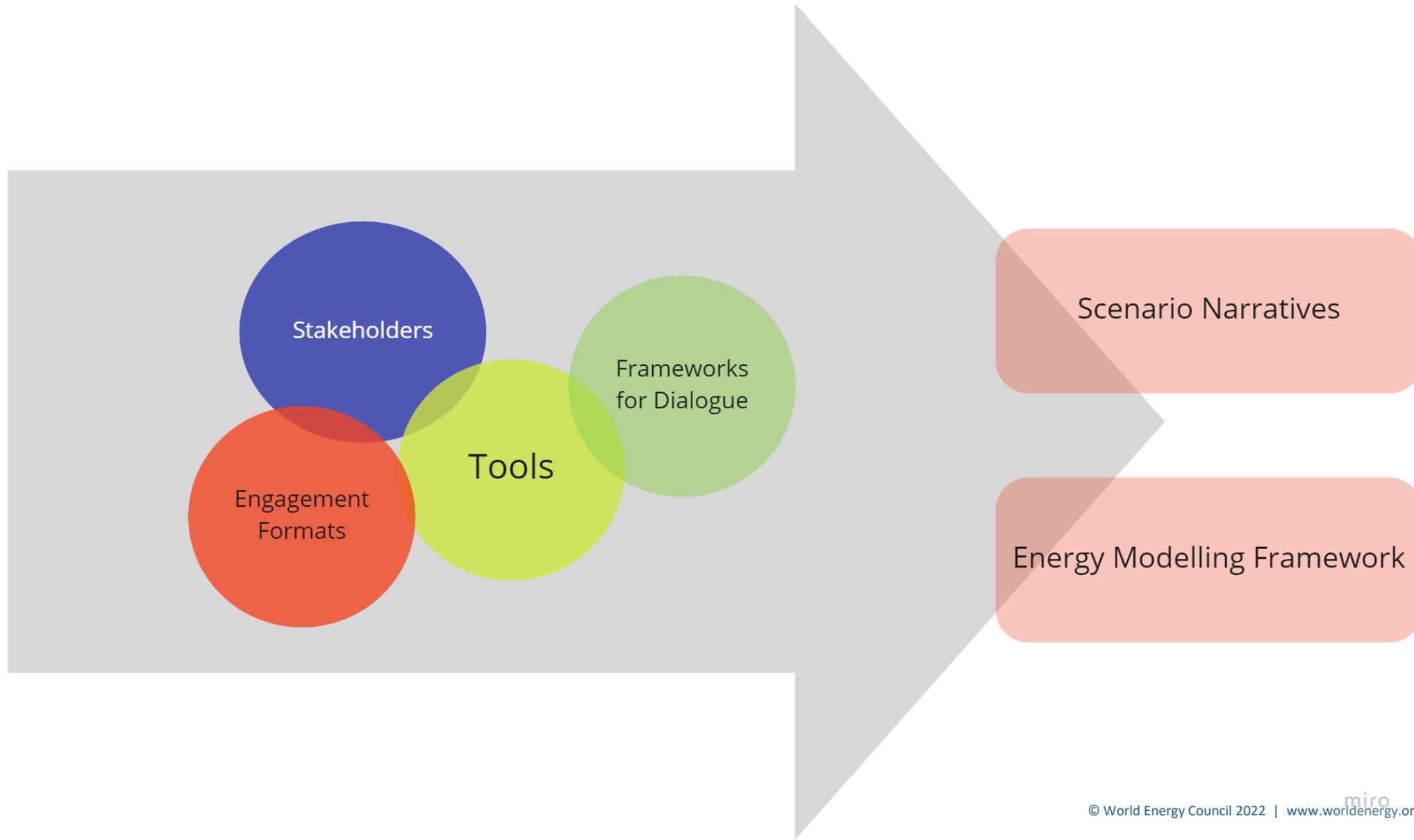
LTES Forum 2022

**World Energy Scenarios: Frameworks and Tools for
Engagement**

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Dr. Marius Oosthuizen

**WORLD
ENERGY
COUNCIL**

Designing Participatory Processes



SCENARIOS IN SERVICE OF WEC MISSION

Scenarios play a key role in the Community’s thought leadership outreach over decades and built using participatory process.

The scenarios process is being put in service of building an increasingly energized “globally networked and locally strong” community, in search of new mechanisms for collaboration to address the challenge of “humanizing energy”.

A scenarios process is about more than story-telling, but a tool for crafting and creating mutual-understanding between multi-sectoral partners – a shared narrative. This requires engaging *deeply and meaningfully* among our community and with external stakeholders, with analytical rigour.

Our scenarios must be useful, understandable and practical.

World Energy Council’s enduring and evolving mission.



1920s



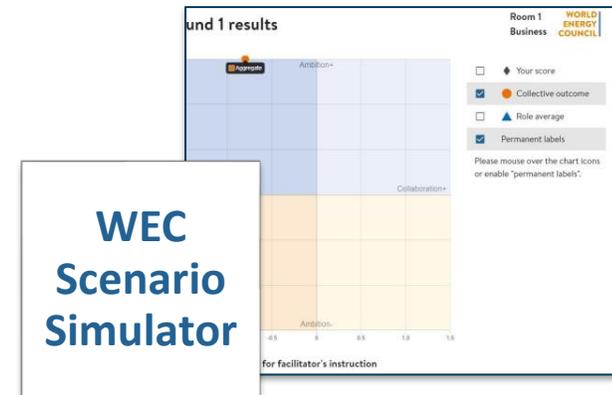
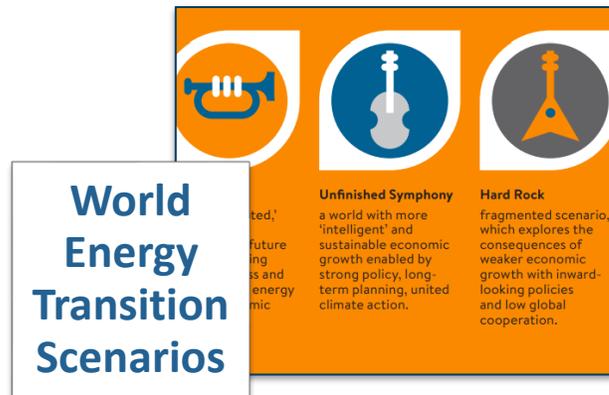
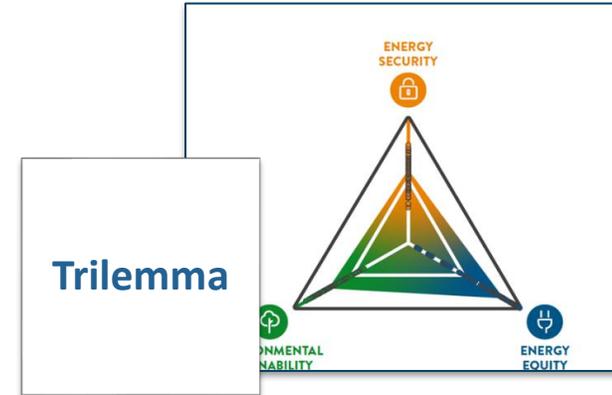
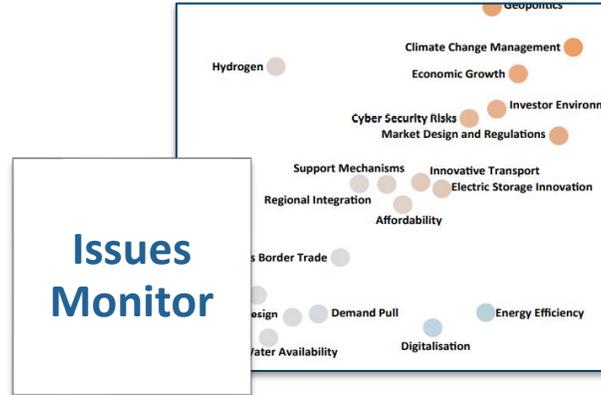
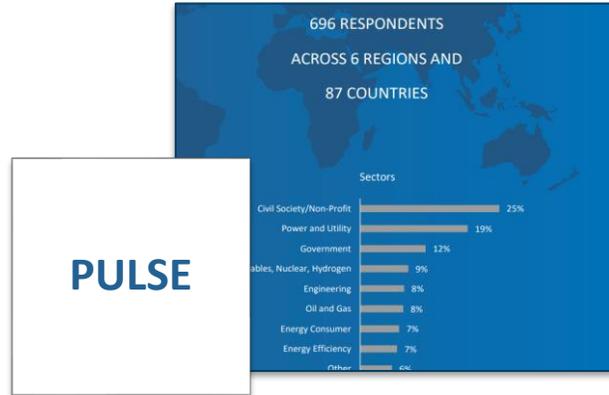
1950s



2021-



World Energy Transitions Toolkit



Frameworks for Dialogue

Scenario Archetypes



Hard Rock

Fragmented approach driven by desire for energy security in a world with low global cooperation.

- Fragmented policies
- Local content
- Best-fit local solutions



Modern Jazz

Market-driven approach to achieving individual access and affordability of energy through economic growth.

- Market mechanisms
- Technology innovation
- Energy access for all

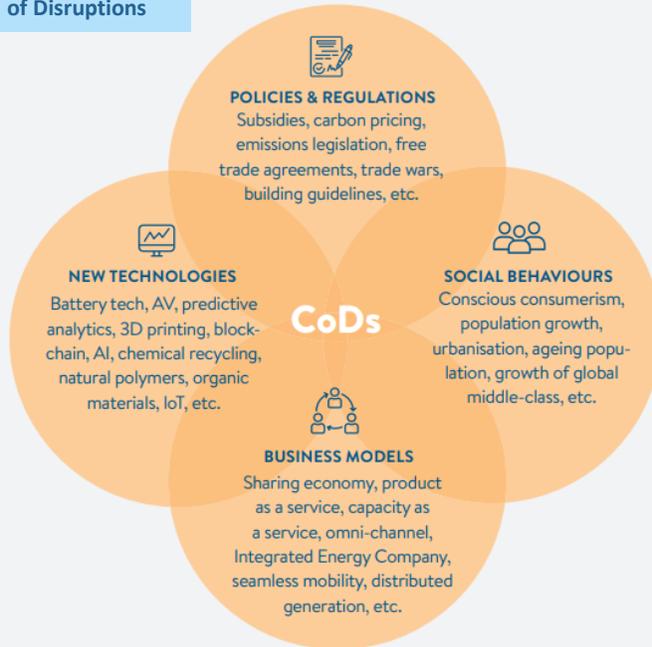


Unfinished Symphony

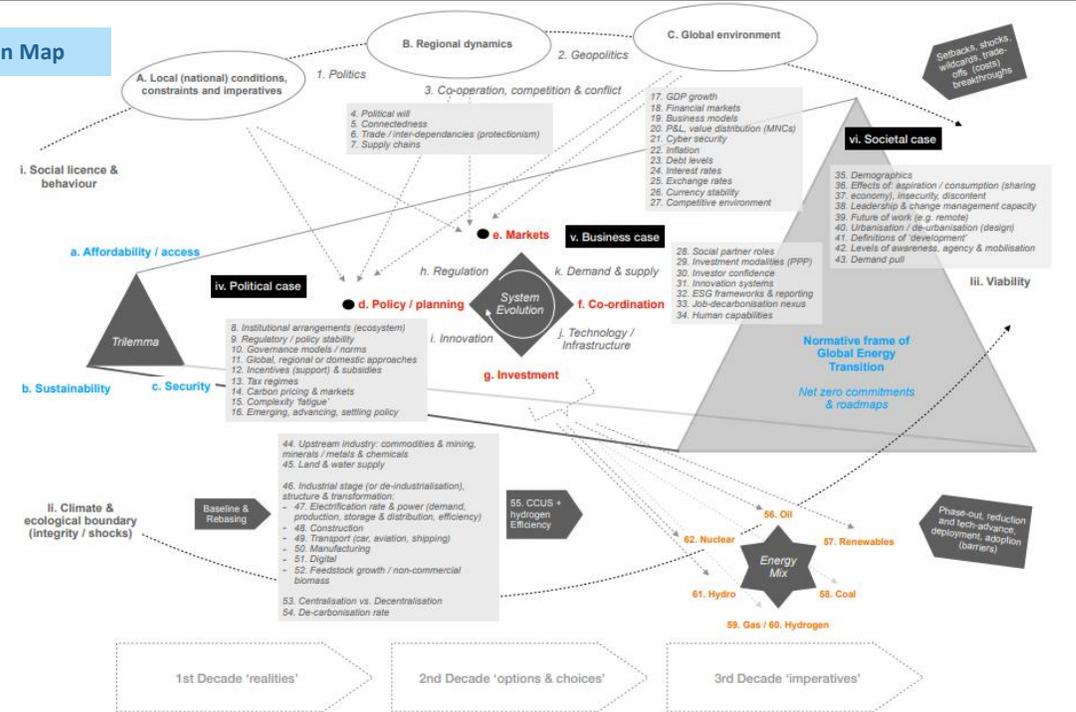
Government-driven approach to achieving sustainability through interationally coordinated politics and practices.

- Strong policy
- Long-term planning
- Unified climate action

Constellation of Disruptions



Domain Map



Community Engagements Formats

Future Energy Leaders: Visionario Program

- 30 FELs conducted comparison of upto 30 Long Term Energy Scenarios to enable the formulation of the theory of change.

Scenarios Working Groups

- Periodic interaction with scenarios experts across MCs for Framing workshops for the validation of the Domain Map

Expert Deep Dives

- Regional Vice Chairs
- Specific sector experts nominated by MCs
- Periodic regional outreach

Regional Deep Dives

- Designed in partnership with MCs with regional representation
- Focus on identifying regional trends, uncertainties and wild cards, wind tunneling



Coupling with Energy Modelling

Energy Modelling with PSI



Regional workshops with scenario refresh sessions

Workshop format:
a. Setting scene
b. Mindset exercises
c. Developing narratives in smaller tables

Global

Narratives Development

Develop narratives by investigating emerging themes – via interviews and targeted desktop research

Model Refresh

Regional deep dives

Regional Narratives Development

Understanding of key changes to region and narratives

Regional Model Refresh

1 World scenarios

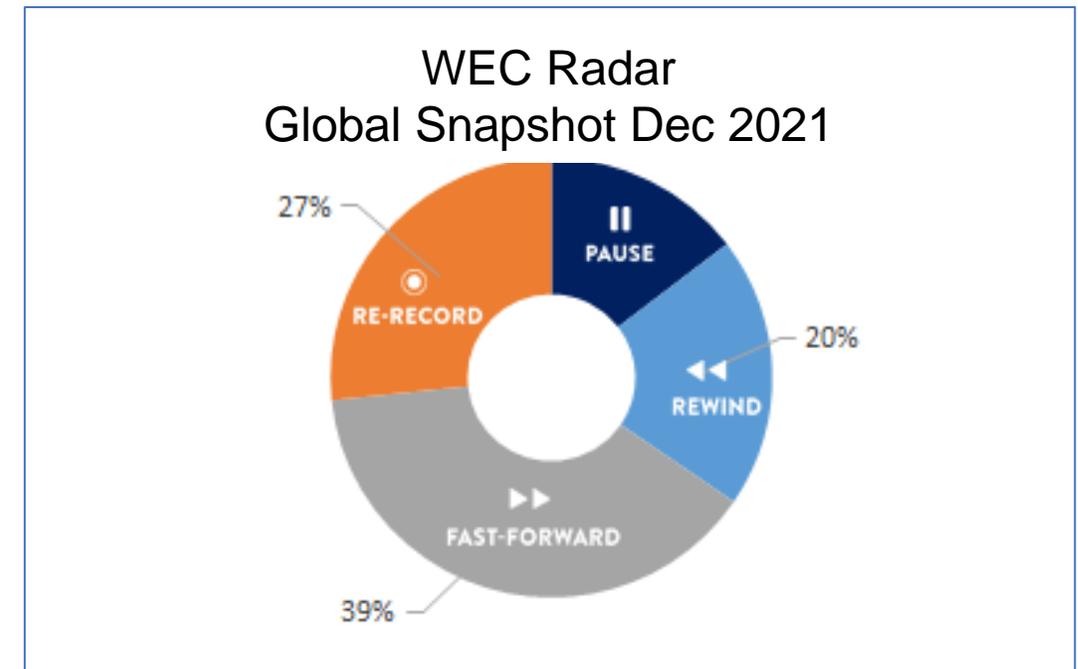
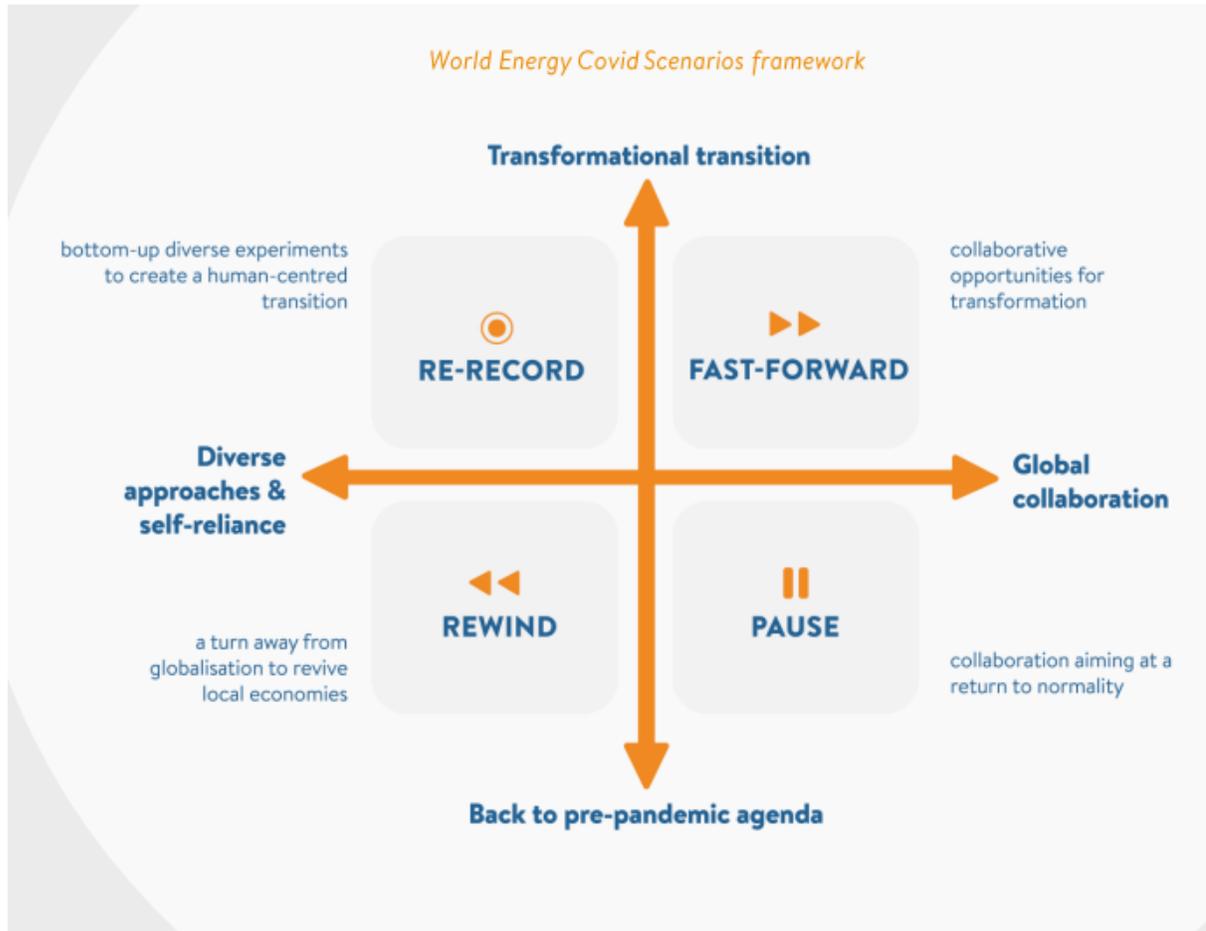
2 Insights Briefs

3 Regional deep dives



COVID Scenarios

Participatory process enabling the identification of new futures (18 months-5 years)



Re Record showing signs of a 4th Archetype

Japan's Mitsubishi to spend \$17.5 bln by 2030 to drive decarbonisation

How Zurich Blazed a Trail for Recycled Concrete

The Swiss city requires recycled concrete to be used in the construction of public buildings. Now other cities are following its lead.

Major Korean conglomerates set up council for hydrogen economy

Eskom to retire 8-12GW of coal-fired power generation by 2031

Farmers swap crops for energy as east of England solar farm proposals double

'It's radical': the Ugandan city built on solar, shea butter and people power

RE-RECORD

Vaccines and treatments proliferate in a confusing, non-coordinated fashion with very different city-by-city outcomes.

The slow economic recovery is accompanied by social unrest and a local focus.

Globalisation is declining.

Local experiments, enabled by technology, lead to the creation of a new regenerative track.

Shift in social norms triggers decentralised people power.

Investment migrates from fossil fuels to mixtures of fossil fuels and renewables on diverse pathways and hybrid system.

WE Transition Simulation successfully piloted at global & national levels



World Energy Leaders Summit (Oct 2020)

- **30+** global energy leaders, C-level executives and Ministers
- Representing the **whole energy value chain**, from policy makers, investors, business and civil society communities
- **New insights** on a global Covid recovery and transformational approach to energy transition have been developed



250 Days to 2050 – WE UK (Mar 2021)

- **50+** UK energy leaders, C-level
- **Wide representation of energy and energy+ sectors** (construction, health, mobility, industry, etc.)
- **Collaborative action proposal** developed – UK Energy Transition Pathfinder Pioneers – focussed on customers activation, cities and communities, and ESG metrics

Elements of a World Energy Transition Simulation

4 roles to play (can be customised)

Business, Civil society, Government, Investors

Menu of strategic options for transformation tailored to specific roles and goals

Simulation can be run in several rounds of facilitated discussion mixed with reflections sessions

Discussion on **which future is emerging** as a result of collective choices and what are **implications for energy transition?**

ABOUT THE WORLD ENERGY COUNCIL

Formed in **1923**, the World Energy Council is the world's first permanent energy organisation and a registered charity.

We are an **open-to-all** and fully independent **world energy community**. We do not advocate for any country, company, resource, technology or solution.

Our enduring mission focusses on **“how to”** secure better energy for humanity in the current era of energy for people and planet.

Globally networked and locally strong, we work dynamically with 3,000+ member organisations, in nearly 90 countries, across all energy sectors.

In 2019, the World Energy Council launched a new vision of **‘Humanising Energy’** which has rapidly come of age in the global health emergency.

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