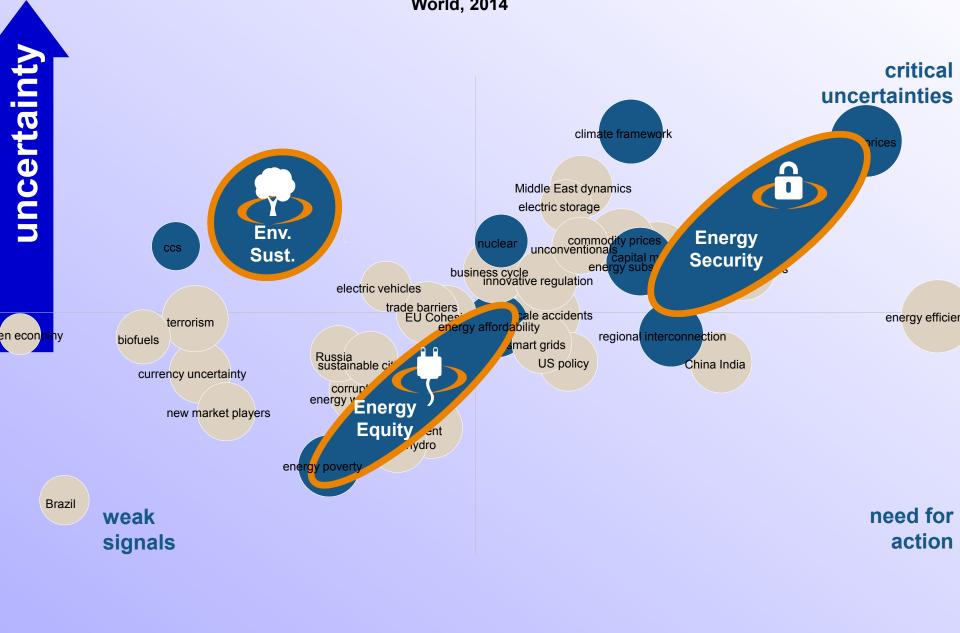
Time to get real No solutions only trade offs?



Joan MacNaughton, Executive Chair, World Energy Trilemma, BIEE, 17 September 2014





impact

World Energy Trilemma report

Energy Sustainability Index

Policy review and analysis (deep dives)

Call for increased dialogue

- 2012 report views of 40 senior energy executives
- 2013 report response of governments, multilateral organisations and development banks
- Culminating in Agenda for Change



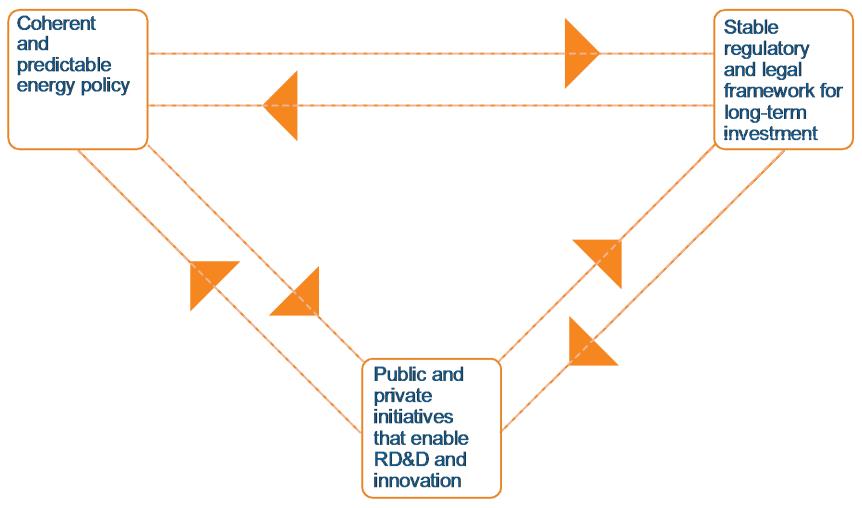
© World Energy Council 2013

10-POINT AGENDA FOR CHANGE

The World Energy
Council's World
Energy Trilemma
2012–2013 research
programme captured
the insights of more
than 100 global
energy leaders and
led to the identification
of a 10-point agenda
to address three
broad policy areas.



Clear vision with a mix of energy sources and technologies



Help from energy industry

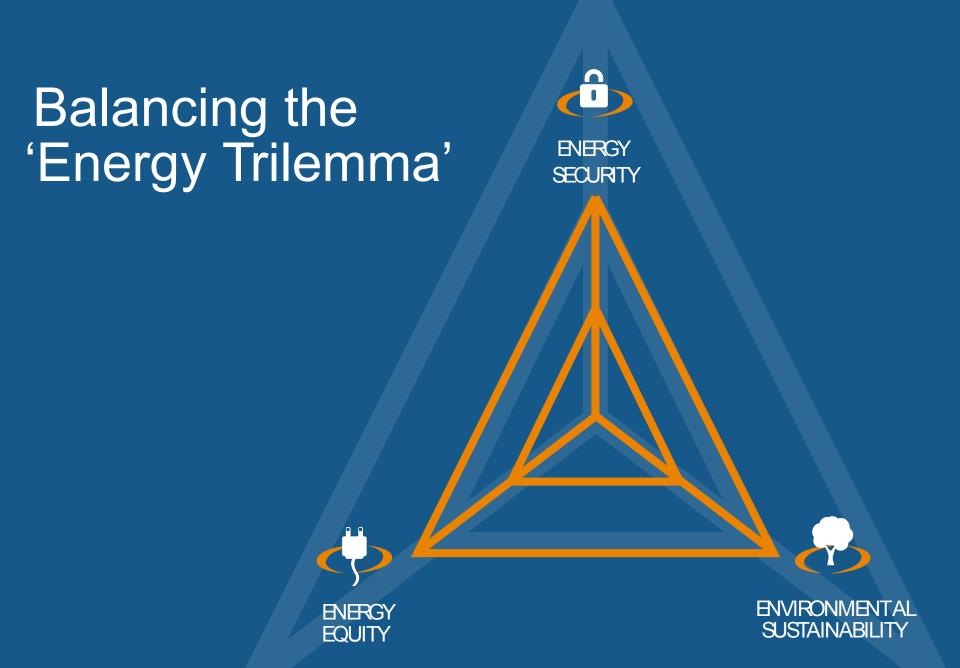
- 1. Greater dialogue, sharing knowledge and experiences
- 2. Better risk alignment
- 3. Economic development on a new path to energy sustainability

2014 World Energy Trilemma

► The role of the financial community in the energy sector.

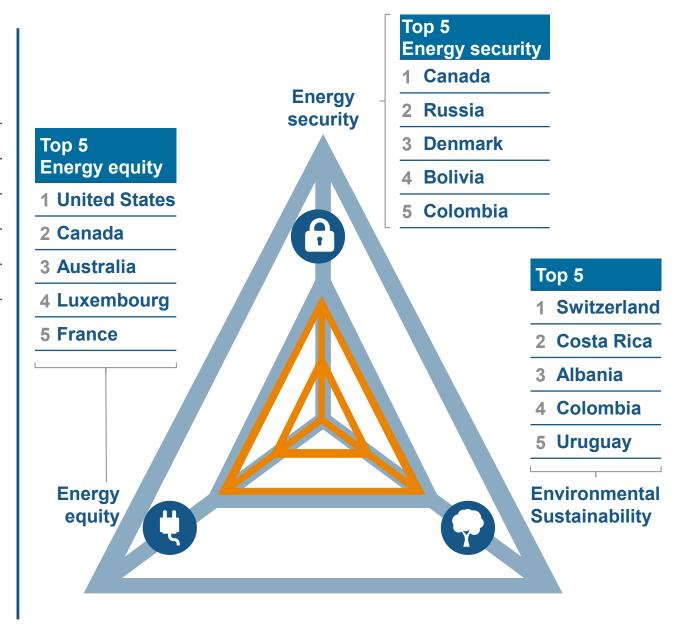
- ► Challenges:
 - Policy/regulatory complexity
 - Lack of consistency
 - Unpredictable or opaque legal frameworks
 - Competition for investment
 - Lack of capacity

© World Energy Council 2013



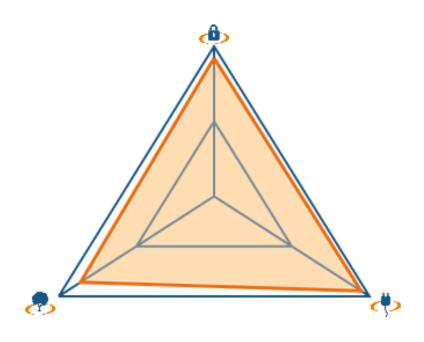
Top Energy sustainability index

- 1 Switzerland
- 2 Denmark
- 3 Sweden
- 4 Austria
- **5** United Kingdom



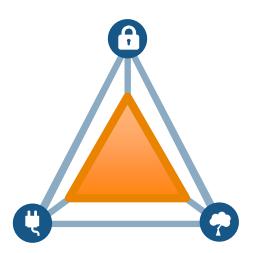
© World Energy Council 2013

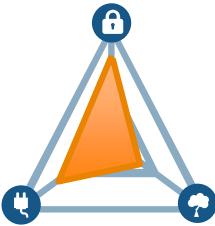
UK on Rank 5

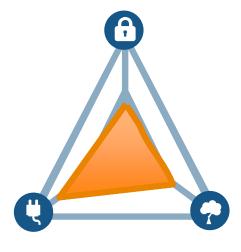


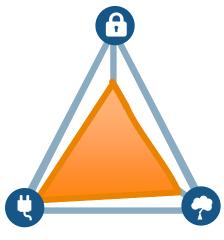
	2011	2012	2013	Trend	Score
Energy security	6	3	11	\	Α
Energy equity	10	5	8	\	Α
Environmental sustainability	21	20	19	↑	Α
Overall rank and score	4	2	5	\	AAA

Performance of EU-28 countries









Northern Countries

- 2 Denmark
- 68 Estonia
- 13 Finland
- 20 Ireland
- 43 Latvia
- 42 Lithuania
- 3 Sweden
- 5 United Kingdom

Eastern Countries

- 70 Bulgaria
- 32 Czech Republic
- 31 Hungary
- 48 Poland
- 52 Romania
- 22 Slovakia

Southern Countries

- 30 Croatia
- 63 Cyprus
- 39 Greece
- 28 Italy
- 71 Malta
- 23 Portugal
- 25 Slovenia
- 9 Spain

Western Countries

- 4 Austria
- 17 Belgium
- 10 France
- 11 Germany
- 19 Luxembourg
- 12 Netherlands

Conclusions

- Cumulative investment needs to 2035 amount to around \$40 trillion
- ► In the EU, \$2 trillion are needed in the power sector alone
- ► The UK needs to invest close to £200bn by 2020

Hadn't there better be solutions and not just trade offs?

Time to get real No solutions only trade offs?



Joan MacNaughton, Executive Chair, World Energy Trilemma, BIEE, 17 September 2014

