

# Facilitating the UK Energy Transition

*In six conceptual diagrams*

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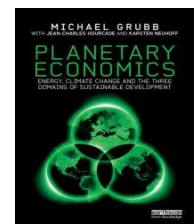
**British Institute of Energy Economics 2016 (BIEE) Conference**

***Innovation and Disruption: the energy sector in transition***

**Oxford, 21-22<sup>nd</sup> September**

### **Session on Facilitating the Energy Transition**

- The broad economic concepts
- UK electricity transition – key data, key challenges
- Elements of a strategy

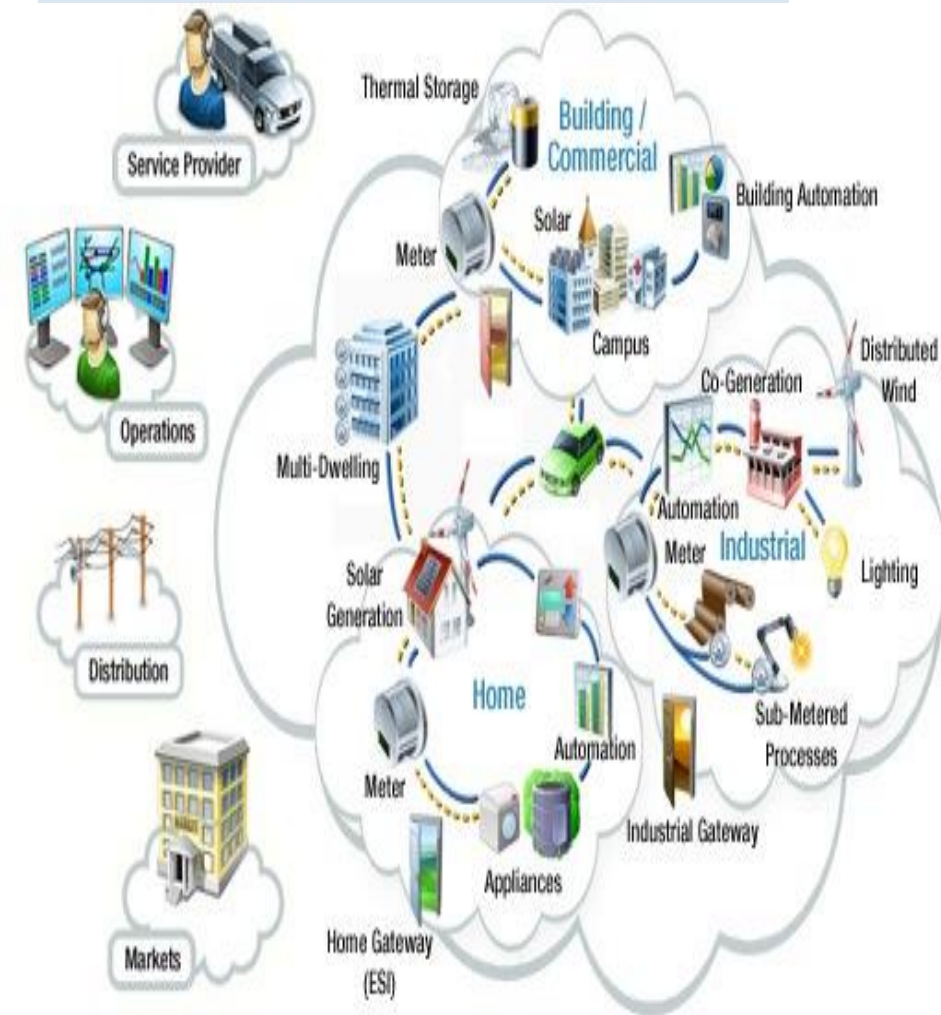


# A 'hollowing out' electricity system ..

## Distributed Service Providers

Combined with

## Big generation developments, such as Dogger Bank



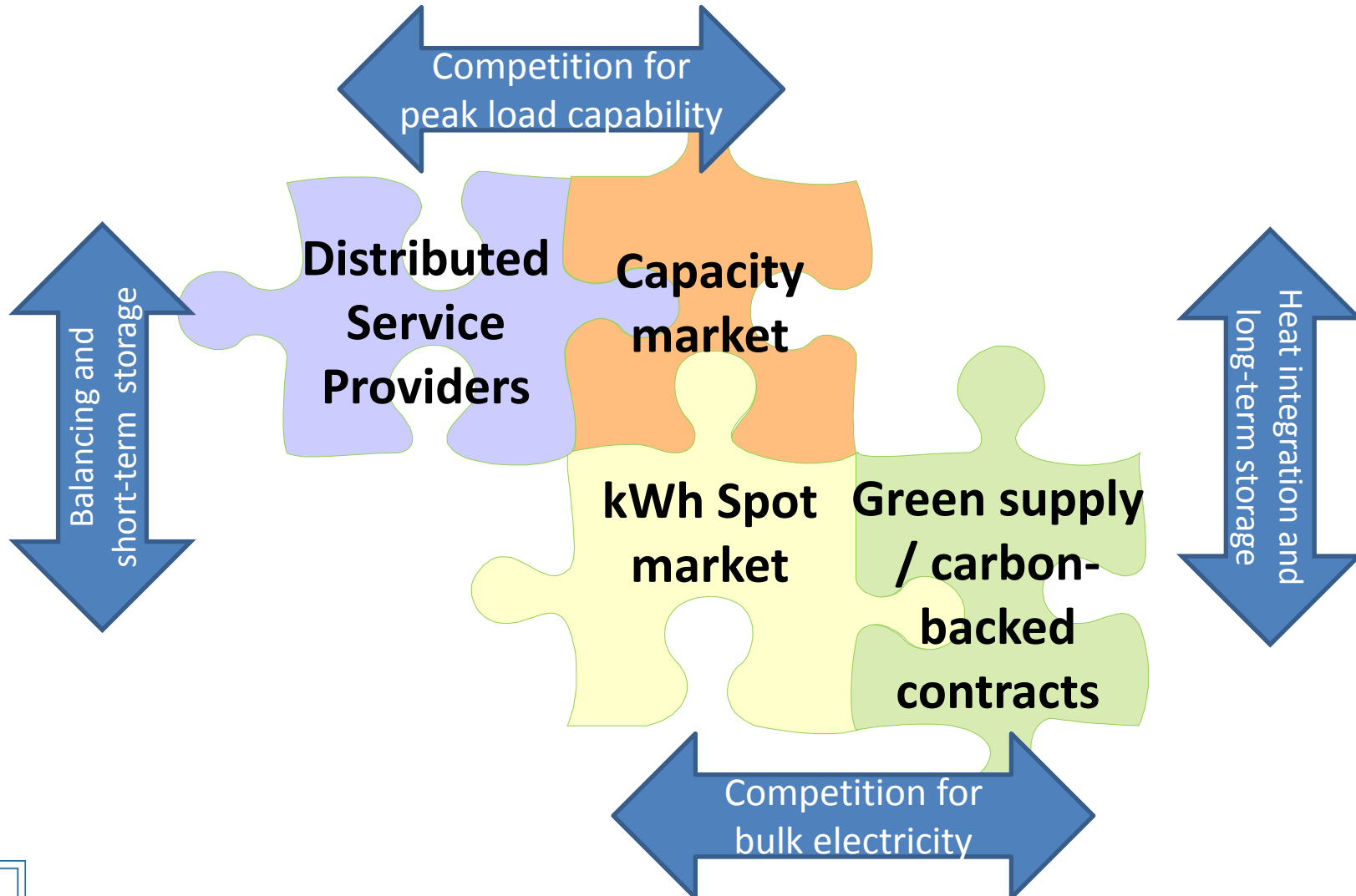
TenneT CEO Mel Kroon commented: "In Germany and more recently in the Netherlands, TenneT has the role of developer and operator of the offshore grid. From this responsibility we have taken the initiative to establish a realistic and achievable plan for further development of the North Sea. The success of the energy transition depends largely on the extent to which we mount a coordinated joint effort in Europe. Cooperation between national governments, regulators, the offshore wind industry, national grid administrators and nature and environmental organisations is a precondition for achieving Europe's environmental targets. The vision we have presented shows the relevance of cooperation in the North Sea."

### North Sea Infrastructure: the vision

Solar and wind energy will be necessary on a large scale because attainment of Europe's targets for reducing CO<sub>2</sub> emissions depends largely on the production of renewable electricity. Moreover, wind and solar energy are



To minimise 'state management', the future system could develop competition *between* at least four markets



# The EU's challenge: recapture the vigour of its ECSC origins into a new venture of strategic investment & transformation

