

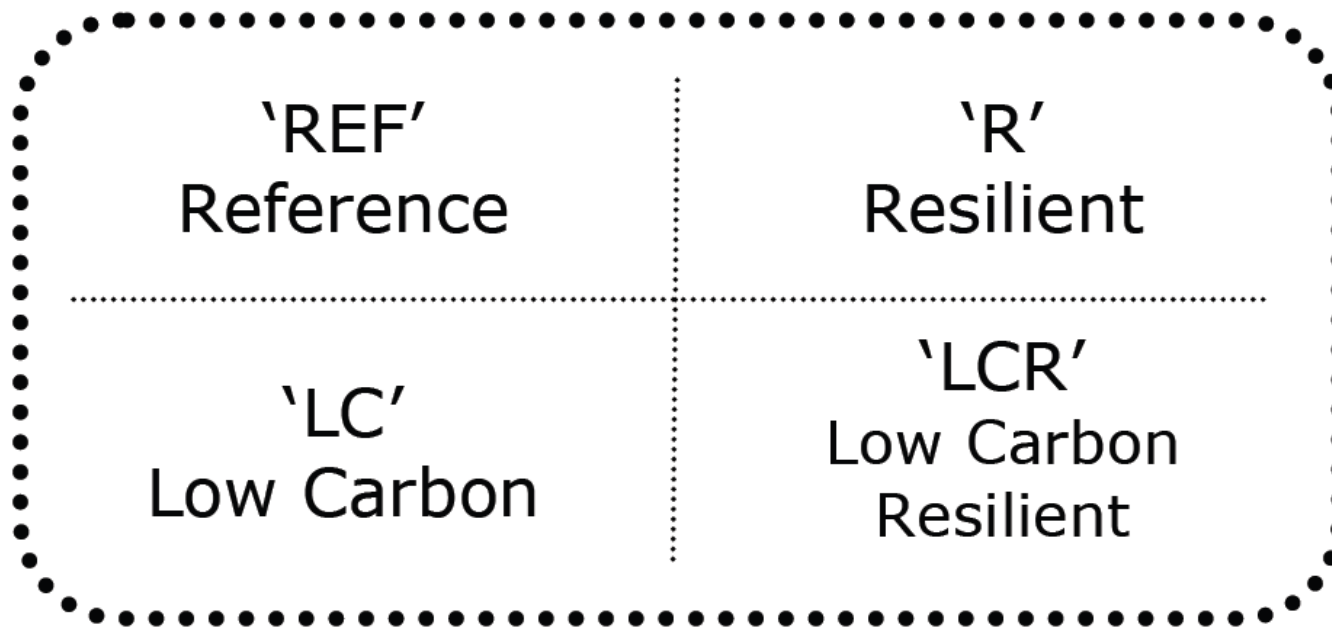
(Internationale) Beispiele für Energieszenarien

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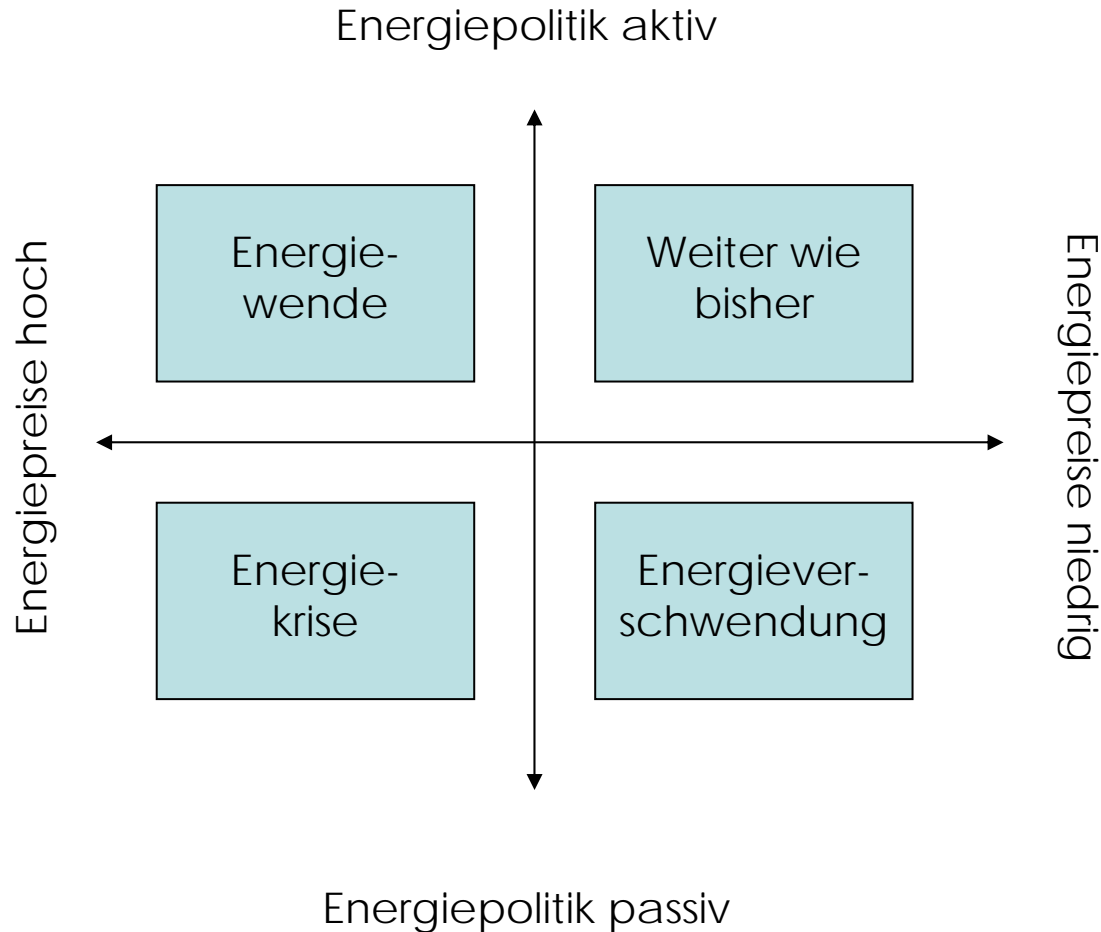
Beispiele für Energie-Szenarien

- Global Business Environment and **Shell Energy Group** (2001), Exploring the future - Energy Needs, Choices and Possibilities, Scenarios to 2050, Shell International Limited.
 - Dynamics as Usual
 - Spirit of the Coming Age
- TNS Infratest (2004), Horizons 2020, commissioned by the Siemens AG.
 - Szenario1: Equality, freedom and modesty
 - Szenario2: Speed, networks and risks
- De Jong et al. (2007), EU 2050 Storylines, Clingendael Energy Programme, The Hague
 - Rolle des Staates
 - Grad der Globalisierung

- UKERC (2008), Pathways to a Low Carbon Economy: Energy systems modelling, UKERC Energy 2050 Working Paper 1.



Energieszenarien der ÖROK Szenarien 2030



- Reduktionsziel für 2050 von 60% der CO₂-Emissionen gegenüber 1990
- Excel-Sheet Modell („scenario-generator“), das das UK Energiesystem quantitativ beschreibt
- Scenario generator entwickelt unter Berücksichtigung von Schlüsselfaktoren unterschiedliche end-points für die Energienachfrage
- Charakterisierung des Energieangebots, das den unterschiedlichen Nachfragemustern gerecht wird und gleichzeitig das Reduktionsziel erreicht
- Beschreibung der Entwicklungspfade hin zu den Endpunkten

Step 1

Specify the strategic objective

Step 2

Describe the present day energy consumption and supply patterns

Step 3

Characterise energy demand at the chosen end point year

Step 4

Define an energy supply system that will meet the specified pattern of energy demand.

Step 5

Step back in time from the defined end point to describe the transition from there to the present day

Kurzbeschreibung der Tyndall Szenarien

	Red	Blue	Turquoise	Purple	Pink
UK GDP (per year)	3.3%	1.6 %	2.6%	3.9%	3.9%
Dominant economic sectors	Commercial	Commercial; public admin; non-intensive industry	Commercial; construction; public admin	Commercial; non-intensive industry	Commercial; non-intensive industry
Energy consumption (Mtoe)	90	130	200	330	330
Number of households (million)	27.5	25	30	27.5	27.5
Energy use per household	Large reduction	Very large reduction	Small reduction	Similar to current	Similar to current
Supply mix	Coal (with and without CCS); renewables; H ₂ ; biofuels	Coal (with CCS); nuclear; CHP; biofuels	Gas (with and without CCS); biofuels; nuclear; H ₂ ; renewables	Nuclear; renewables; H ₂ ; biofuels	Nuclear; CCS (coal and gas); renewables; biofuels
Decarbonisation policies	Innovation and technology driven	Collectivist approaches to demand-side policy	Similar to today with focus on supply	Strongly market-focused government	Strongly market-focused government