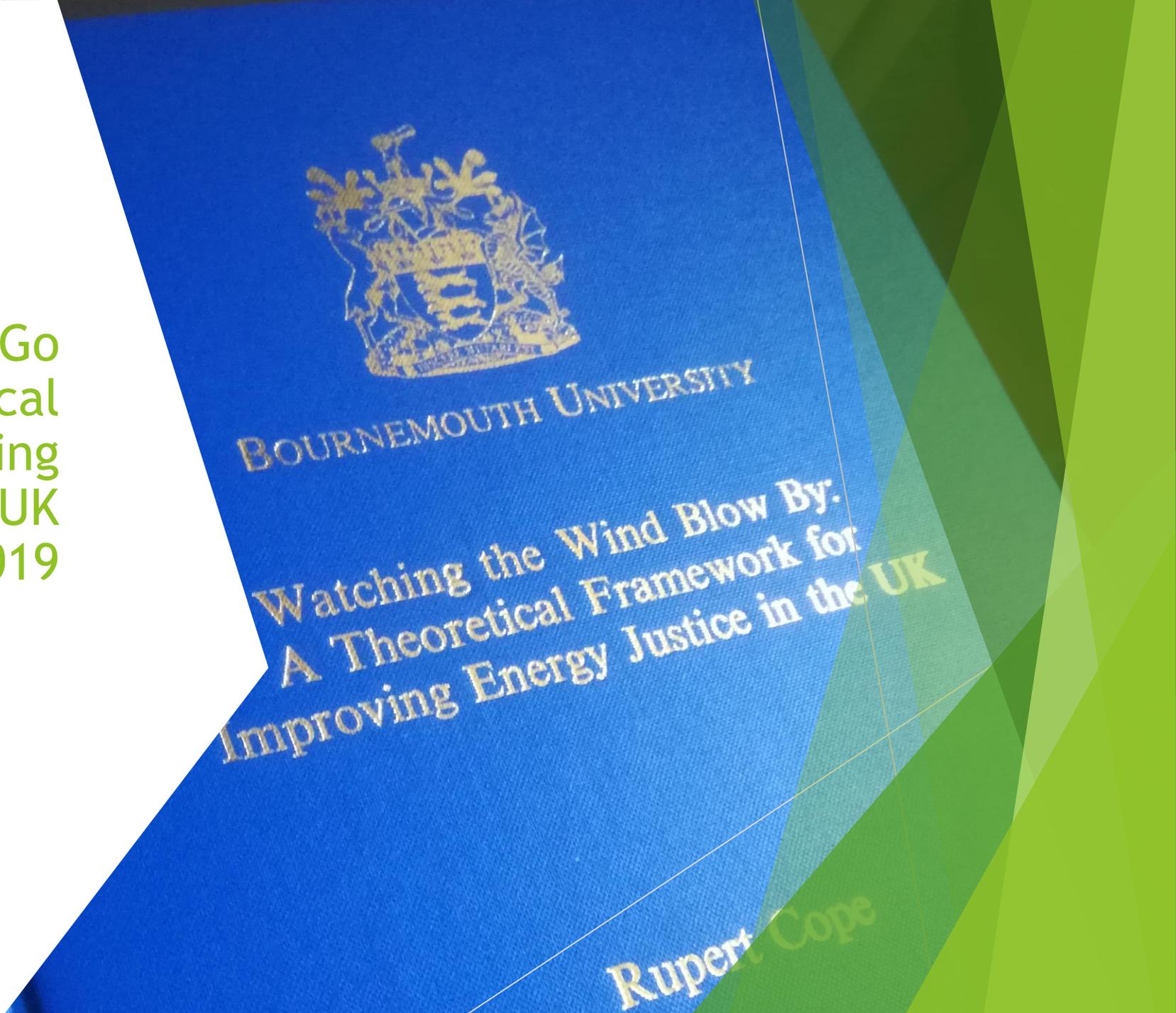


Re-industrializing Dorset through the Green Economy

Rupert Cope

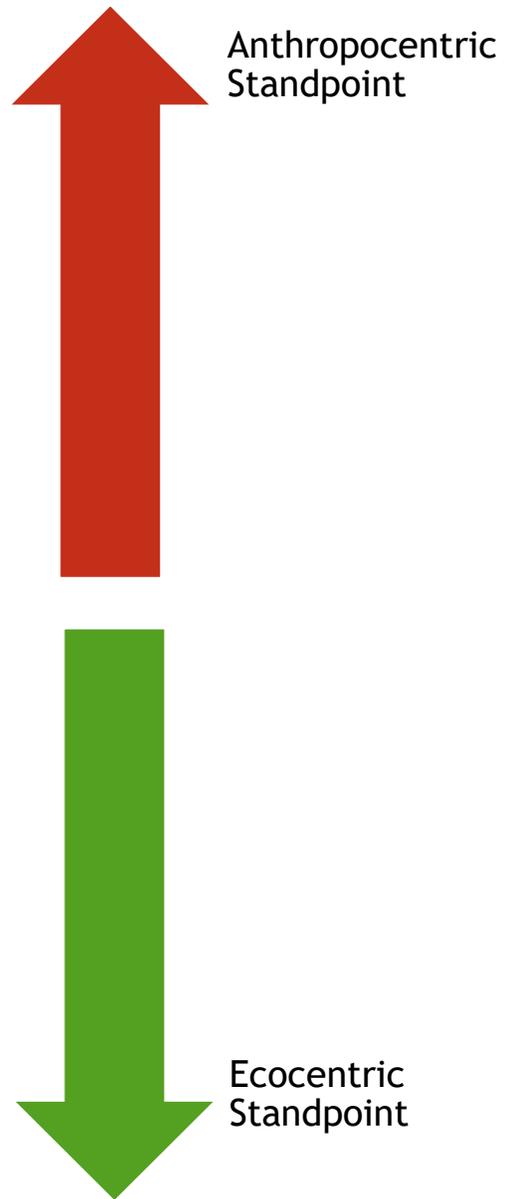
Watching the Wind Go
By: A Theoretical
Framework for Improving
Energy Justice in the UK
- 2019

The image shows the front cover of a book. The cover is blue with a gold-colored crest at the top center. Below the crest, the text 'BOURNEMOUTH UNIVERSITY' is printed in gold. The title 'Watching the Wind Blow By: A Theoretical Framework for Improving Energy Justice in the UK' is printed in white, slanted text. The author's name 'Rupert Cope' is printed in white at the bottom right. The book is set against a background of green geometric shapes.

BOURNEMOUTH UNIVERSITY

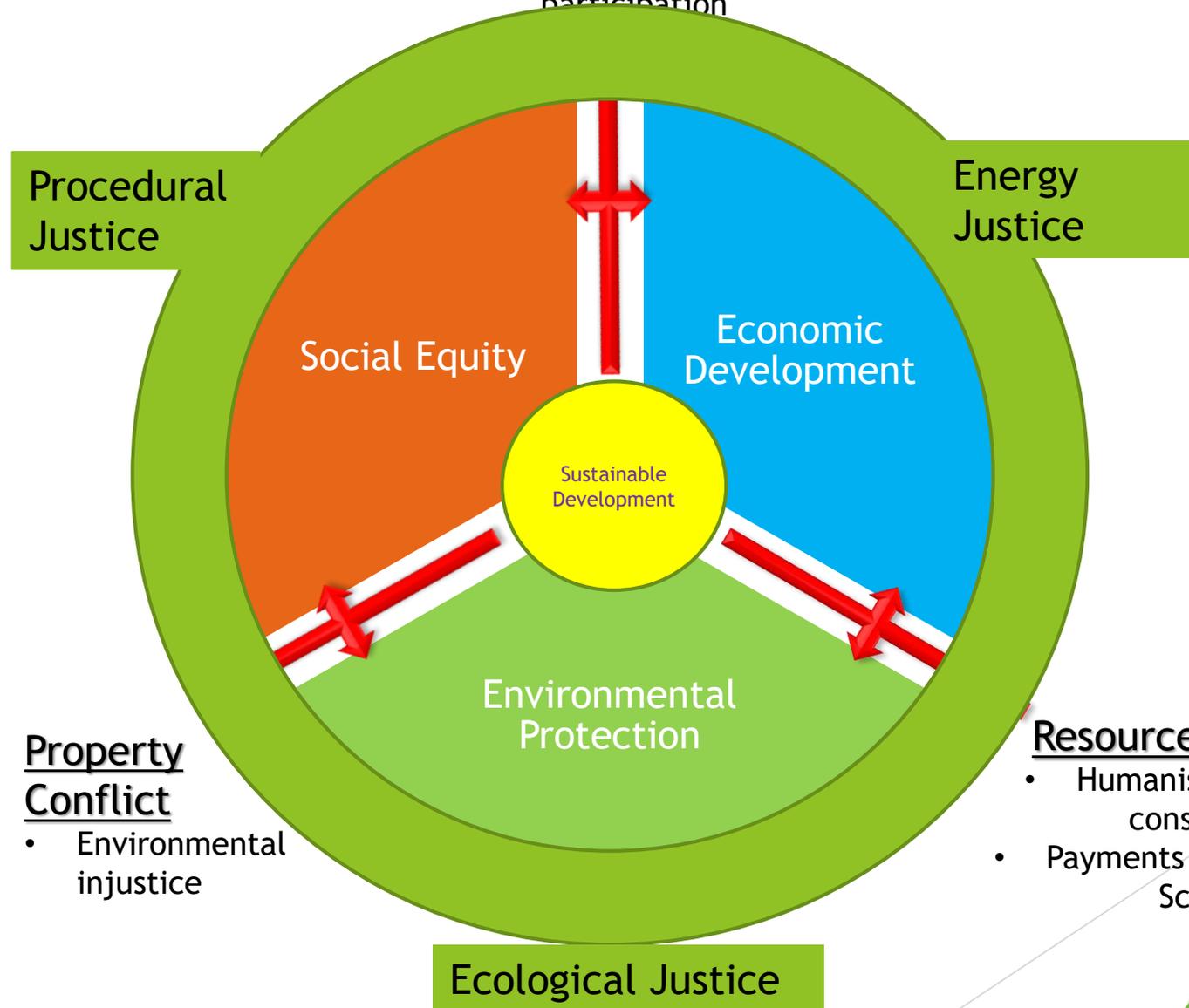
Watching the Wind Blow By:
A Theoretical Framework for
Improving Energy Justice in the UK

Rupert Cope



Social welfare

- equitable distribution
- Stakeholder participation



Resource Conflict

- Humanistic altruism conservation
- Payments for Ecosystem Schemes

Navitus Bay

Failed application 2015

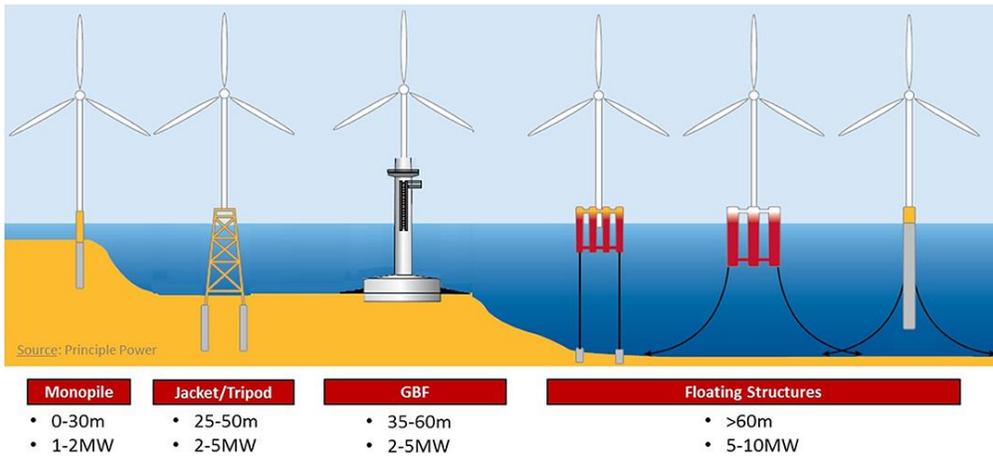
- Financial Impacts
- Visual Impacts
- Ecological Impacts



Floating Turbines



Economic Perspective



- ▶ minimizes construction costs as eliminates costs of foundation types;
- ▶ Simplifying construction methods and equipment;
- ▶ Location benefits to utilize stronger, more efficient wind levels

Ecological Perspective

- ▶ Avoids negative impacts to fauna displacement, behavior changes and sediment disruption;
- ▶ Severely decreases risk of site contamination during repair/deconstruction phases (Yttre Stengrund, Sweden)
- ▶ Utilize fish aggregation devices (FADs)/artificial reefs to benefit fish populations & could also introduce mariculture farming methods to help reduce pressure of commercial competition for space



Social Perspective

- ▶ Installation in deeper waters further from coastline to negate concerns for visual/noise intrusions of offshore wind developments - boosting public acceptance





Supporting the Dorset Community

By re-industrializing areas of deprivation through an autarkic framework, a wide range of social, economic, environmental and energy injustices could be reversed



Financial Benefits

- Potential for excess/unused energy to be sold on to National Grid.
- Decentralized energy system reduces transaction & Operation costs.
- Equal distribution of financial benefits (Local wind power Purchase Model).



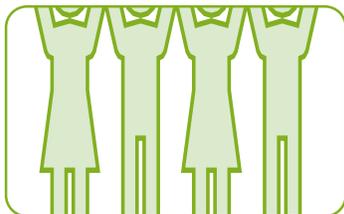
Employment Benefits

- Boost regional employment - construction, installation, operation, business management etc
- Circulates capital within the region
- Reduces employment immigration.



Education Benefits

- Degrees, college courses and apprenticeship schemes
- 'Energy Academy' - Samsø
- Improves intergenerational awareness & contributions of Sustainable Development



Social Benefits

- More equitable distribution of energy justice
- 'Improved Procedural justice
- Improves Environmental Justice
- Reduce economic gap of coastal community to that of rest of the UK
- Address Increasing threats to health and social wellbeing