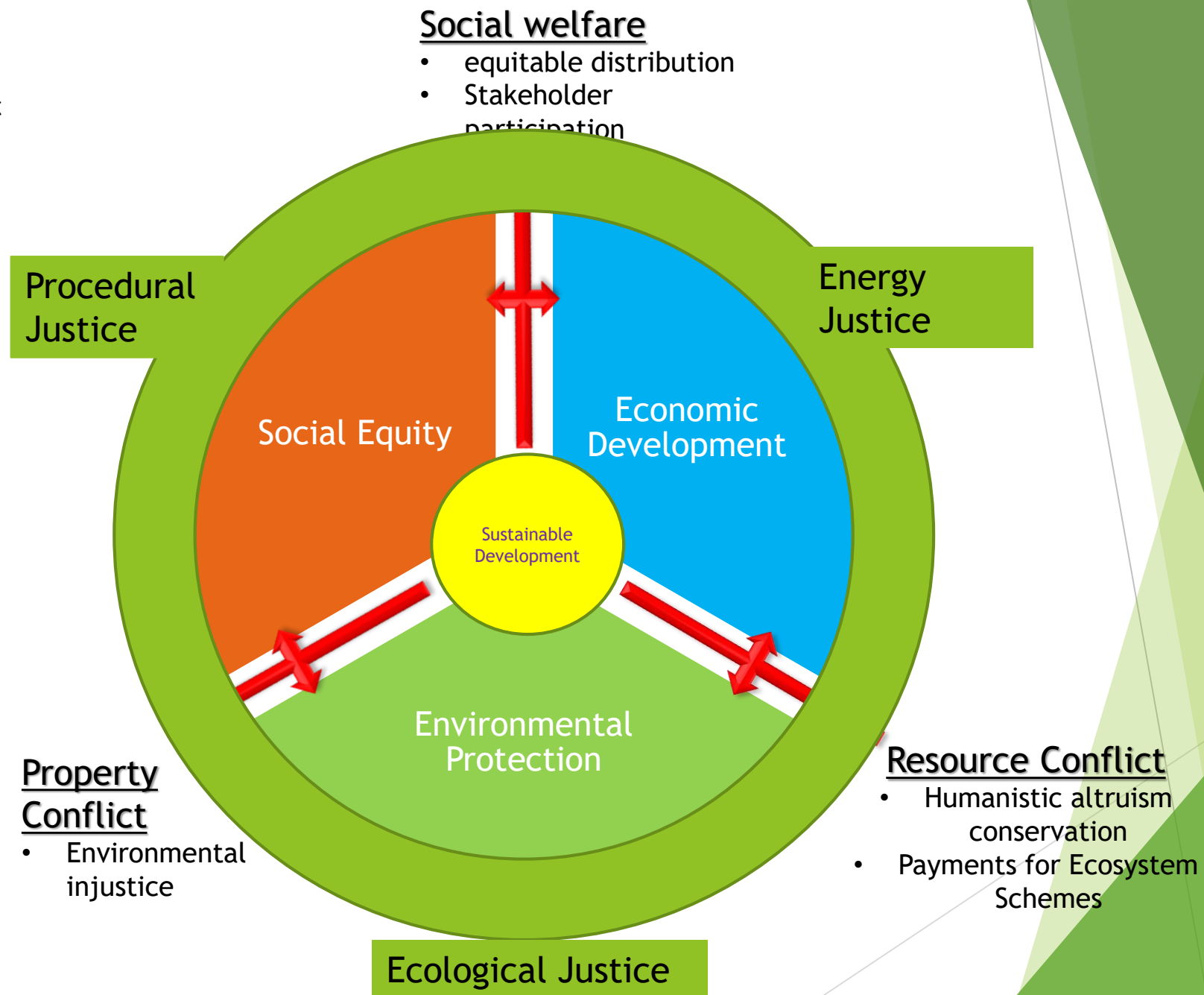
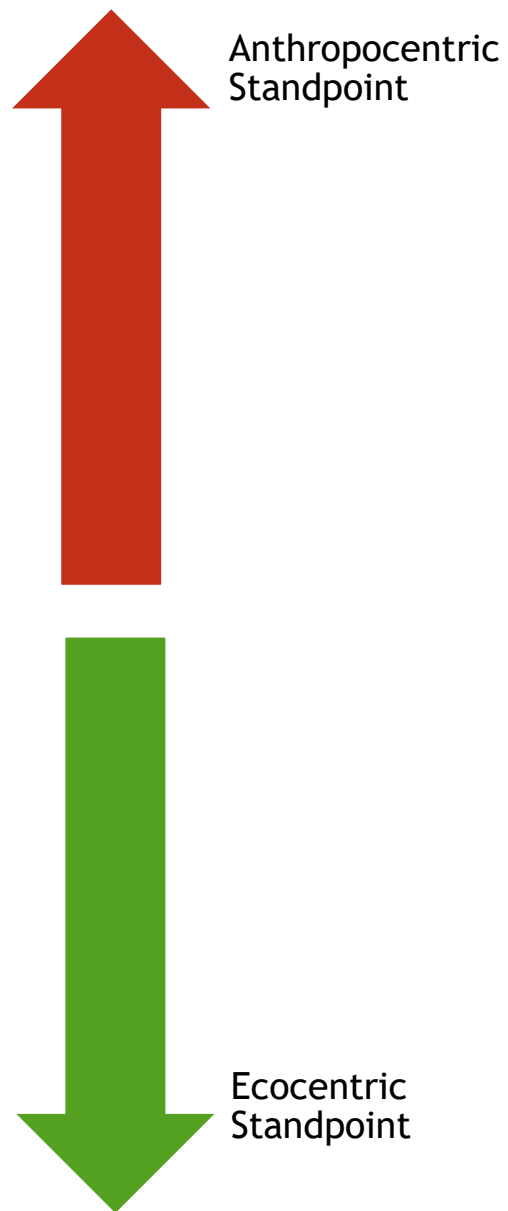


Re-industrializing Dorset through the Green Economy

Rupert Cope

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





Navitus Bay

Failed application 2015

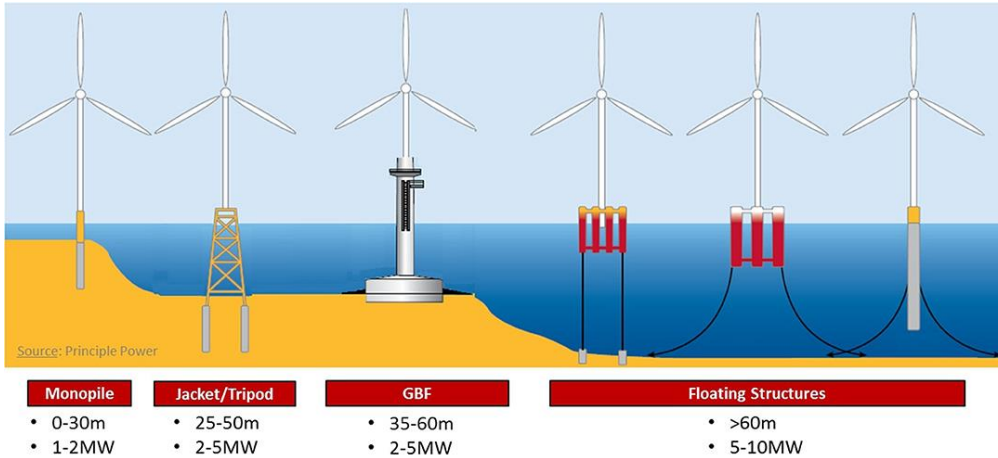
- Financial Impacts
- Visual Impacts
- Ecological Impacts



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).



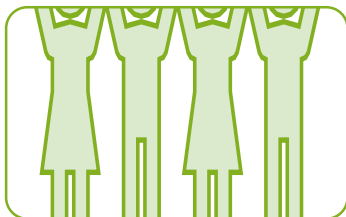
Employment Benefits

- 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