

Obvious and less obvious interdependencies between water and energy - today and tomorrow

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Water and Energy Interdependencies Benefits and Challenges

Obvious	Wider	Developing	Future?
<ul style="list-style-type: none"> • Water • Energy • Weather • Resilience • Security of Supply 	<ul style="list-style-type: none"> • TRIAD • Short Term Operating Reserve • Frequency control • Use of Standby generation [short-term] • Self generation of renewable energy [long-term] • Incentives – ROCs & FITs • Circa 70% GHG emissions from electricity • Skilled employees • Energy vs Carbon 	<ul style="list-style-type: none"> • WFD • Trading of abstraction capacity • Timing of energy consumption • Change of processes to create more renewable energy/fuel 	<ul style="list-style-type: none"> • Changes to abstraction licences • Jointly developing Paid for Ecosystem Services • Water for CCS • Timing of energy consumption • Co-location of assets? • Hydrogen economy?

Influencing Infrastructure Type & Timing

