

# CONVENTIONAL / THERMAL ENERGY AND ASSOCIATED TECHNOLOGIES

***The UK's Overarching National Policy Statement for Energy (EN-1), published to provide definitive statements of national policy such that these do not need to be debated at a local level, states that:***

***“Energy underpins almost every aspect of our way of life. It enables us to heat and light our homes; to produce and transport food; to travel to work, around the country and the world. Our businesses and jobs rely on the use of energy. [...] It is difficult to overestimate the extent to which our quality of life is dependent on adequate energy supplies”.***

***In terms of providing sufficient energy supplies, EN-1 goes on to state that:***

***“A number of fossil fuel generating stations will have to close by the end of 2015. Although this capacity may be replaced by new nuclear and renewable generating capacity in due course, it is clear that there must be some fossil fuel generating capacity”.***

Indeed, overall it is intended that new fossil fuel electricity generating capacity will:

- Replace the electricity generating capacity lost due to closures of 'opted-out' coal / oil power plant and nuclear power plant;
- Aid the maintenance of a diverse, reliable, secure and strategically robust energy mix; and,
- Cover the expected increases in the electricity demands.



Based on current estimations, the UK Government believes it is prudent to plan for a minimum of 59 gigawatts (GW) of new electricity generating capacity by 2025. A significant proportion of this is expected to be from new fossil fuel generating capacity.

Current UK Government action through the Electricity Market Reform aims to unlock up to £110 billion in energy infrastructure investment, and support up to 250,000 jobs by 2020.

## ***Our Capabilities and Key Experience***

Based on our joint previous experience, the WPA team are able to provide assistance throughout all key project phases for conventional / thermal (fossil fuelled) energy generation technologies, from initial project / site identification and screening, through pre- and full-feasibility stages, to project consenting (including planning applications and environmental impact assessment), project permitting and project operation.

The WPA team are also able to undertake environmental and technical due diligence exercises across a vast range of conventional / thermal energy generation technologies.

Collectively to date, the WPA team members have been involved in the site identification, development, consenting and permitting of over 15 GW of electricity generating capacity in the UK alone.

As a result, the WPA team members have developed specialist knowledge of the associated requirements and studies—ranging from atmospheric emissions modelling through assessment of Carbon Capture Readiness (CCR) and Combined Heat and Power (CHP) potential to economic evaluation and appraisal.

In addition, the WPA team are also able to develop and evaluate programmes of work that minimises cost to the Client which systematically identifying and addressing key risks and issues.

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