Fuel Supply Agreements (FSA).

For the majority of international power plant projects, a FSA is required to ensure that the power plant has a guaranteed source of fuel. The agreed fuel specification has an impact on plant design and plant performance. The variation in fuel properties for gas and oil are fairly small but the variation in both coal and biomass properties can be very large and can have a significant impact on the plant.

RWE assesses the impact of the fuel specification on design and operation of a project, details of the specification are checked to ensure they are consistent and could actually be met by the fuels considered for supply. Information about suppliers fuel quality and ability to supply that quality are also provided. The appropriateness of the fuel specification for the plant design is assessed and design change options provided.

As coal is a heterogeneous material, its sampling, sample preparation and analysis is vulnerable to bias. Different biomass fuels can vary considerably in both composition and form. RWE utilizes a suite of tools and facilities to ensure that the necessary procedures are applied to support the project's fuel purchasing commercial positions.

Our Services

- In-house fuel laboratory
- Specialised characterisation tests
- Access to specialised combustion test facilities & materials handling testing
- Fuels databases
- Computer codes for boiler performance modelling and fuel add-on cost evaluation

Benefits

Risk reduction of underperformance within the project due to:

- loss of availability
- extra capital expenditure to upgrade plant for the fuel e.g. materials handling issues
- extra revenue cost due to greater use of oil and extra operation and maintenance costs
- extra fuel purchases to make up lost CV due to poor quality control



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