



ESTA Green Recovery Now

Turning white elephants
green

George Richards – Director

Who are JRP?

- Established in 1999
- One of UK's leading independent energy, Net Zero and outsourcing specialists
- Uniquely practical, pragmatic and highly experienced
- Working across all sectors
- Helping organisations to develop and implement appropriate and practical Net Zero strategies
- JRP, Net Zero Network & partners
- ISO 9001, ISO 50001, B Corp

What our clients say about us



“JRP are very good partner. They are very knowledgeable, diligent and creative. They don’t just dip in and dip out, they want to carry on working and contribute to deliver an outcome.” **Paul Garland, Energy Manager, Vodafone**



“The skill and knowledge that was brought to bear demonstrated a level of sure-footedness that was reassuring. The breadth and quality of the work delivered was exactly what we required.” **Ola Bankole, Head of Sustainability**



“The service that JRP have provided have been excellent not only for the standard information but for their help and advice when I’ve needed it. Their response back is always in a quick timely manner ensuring any queries are dealt with immediately.” **Jackie James, HSE Manager, Aunt Bessie’s**

Typical white elephants

- CHP
- Biomass
- BMS
- MM&T systems
- Contractual conflicts
- Measurement & verification
- Net Zero context

CHP

- Incorrect sizing
- Owner/operator conflict
- CHP engine v ancillary plant O&M
- Contractual issues
- Plant performance
- Net Zero
- Stranded assets



Biomass

- A more holistic view is needed to ensure the biomass is viable throughout its life including:
 - Feedstock consistency
 - Storage
 - Transport
 - Future cost & availability of feedstock
 - Actual plant performance and availability
 - Maintenance costs
- Sometimes included to meet planning requirements – one such example resulted in circa £250k capex but the plant was never operational!



BMS

- Invest, install, commission, forget!
- Allowing effective use of the system
- Thermal wheel heat recovery systems not working
- Faulty or inaccurate temperature sensors
- Lack of due point temperature sensor resulting in dehumidification when not required
- Heating and cooling systems fighting each other because of poor tuning of control loops
- Heating and cooling control valves passing when in closed position



MM&T Systems

A robust system is critical for:-

- Identification of 'hot spots'
- Invoice validation
- Measurement of actual plant performance
- Measurement of energy efficiency
- Validation of capex projects
- Reporting
- Compliance (ESOS/SECR/CCA)

A poorly managed or non functioning system is an indication of a poor EnMS, poor energy culture and will result in wasted energy, excessive costs and increased GHG emissions



Contractual conflicts

- Owner v operator
- Main plant v ancillary plant
- Engineering/facilities v production
- Performance contracting – incentives and penalties
- Appropriate KPIs
- Performance monitoring
- Ask an expert



Measurement & verification

- Critical for validation of capex projects
- Critical for validation of behaviour change programmes
- Critical for outsourced agreements such as PPAs and EPCs
- Use IPMVP to agree an appropriate mechanism



Net Zero
be careful not to
create more white
elephants/stranded
assets



Green
elephants
only!





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Towards Net Zero