

## COGENERATION AND DISTRICT HEATING

### Capabilities and Services available

McLellan and Partners Ltd (McLellan) is an independent consultancy, which has been operating for over 80 years. The Company is organised and equipped to provide comprehensive consultancy, engineering, and project management services. Projects are undertaken in a wide range of industrial, infrastructure and energy sectors.



McLellan provides a comprehensive range of services worldwide, having completed projects in some 45 countries and currently working in more than a dozen. McLellan is acknowledged for providing quality professional design, project management and consultancy services to project promoters, operators and financing institutions, in both the public and private sectors.

The range of services provided by McLellan includes expertise and support for:

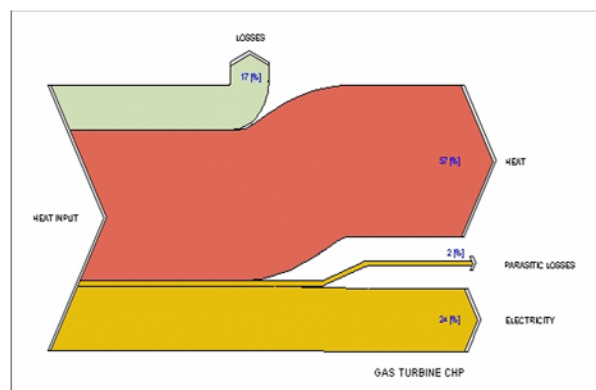
- CHP and power plant upgrades for industrial companies seeking energy efficiencies
- Cogeneration plants for Municipal and industrial customers
- District heating modernisation and development programmes
- Biomass fired boilers and cogeneration systems.

The services available from McLellan include:

**Feasibility Studies:** To examine the technical and commercial feasibility of projects before making an investment decision.

**Project Evaluation:** Financial modelling to determine whether an investment opportunity will provide the required returns, taking into account all relevant assumptions and risks for the project.

**Technical Solutions:** Identifying the range of viable technical options for a project and finding the most suitable solution required to meet all investment parameters.



**Risk Assessment and Management:** Clarifying project risks, identifying actions to mitigate risks, and managing such risks to turn them into actions or opportunities.

**Contract Negotiation:** Supporting Client companies with technical input during the negotiation of fuel supply and energy sales contracts, development agreements, construction and service contracts, and other contracts required to complete project development.

**Project Investment and Financing:** Assisting Clients to select co-investors and lenders, negotiation of lending agreements, providing information required as part of preparing the Information Memorandum, and completing all necessary documentation to achieve project financing.

**Construction Management:** Negotiation of equipment supply and construction contracts and management of the supply and construction process through to plant commissioning.

**Owners Engineer:** Supervision of the construction contractors to ensure that the objectives of the owners are satisfied, and that all third party interfaces are correctly managed.

**Putting plant into Commercial Operation:** Plant commissioning services, advising on the recruitment of operations staff, negotiating operations contracts and supporting the start up of commercial operation.

**Project Development:** All of these services can be combined into a complete project development service on behalf of development companies or investors. Managing the project development process through all stages from initial project identification, through to contract negotiations and execution. We can provide a full engineering and consultancy service to achieve the successful start up of commercial operation.

Some examples of McLellan recent CHP work includes:

- Owners Engineer for a new CHP facility in Milton Keynes
- University of Dundee; study and development planning for a biomass CHP plant
- Thamesway Energy, Woking; Client's Engineer for the extension of the CHP plant and district heating system
- Reading Borough Council; review existing CHP plant and recommend improvements
- Design, studies and Owners Engineer for the CHP plant at Pfizer near Sandwich
- University of Ulster. Feasibility and energy demand study, development planning, and project management of a new CHP scheme.



These services are provided by McLellan working with partners and associates when appropriate to provide specialist skills and local market knowledge.

McLellan has 80 years experience of project developments in 45 countries worldwide, but with particular reference in Europe, Africa and the Middle East.

Please contact David Linsell on the numbers below to discuss your requirements:

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