



## Diesel Power Project Experience

The following is a summary of the major diesel power projects in which CESS and our senior contract employees have been involved in to date:

The first major contracts awarded to CESS were from **John Brown Engineering Ltd** to supervise the mechanical installation and commissioning of electrical and instrumentation systems for the 20 & 40 MW diesel standby power stations at Coulpport and Faslane in Scotland. Being strategic military sites (nuclear submarine base & armaments depot) operated under the control of NNC (National Nuclear Council), no photographs were permitted inside the power plants, but general overview is as below:



***RNAD Coulpport***



***Faslane Submarine Base***

CESS was subsequently awarded a Marketing Contract by **Midlands Power International** for the disposal of their 15 MW Pielstick (2 x 7.5 MW) diesel power plant at Hereford.



***2 x 7.5 MW Crossley Pielstick***

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Following the successful valuation, marketing and sales negotiation for the 2 x 7.5 MW Crossley Pielstick diesel generators in the Hereford Power Station, CESS was subsequently invited to provide project management for the decommissioning, dismantling and relocation of the units into India.

The CESS remit was defined as follows:

1. To act on behalf of Midland Power as Project Engineers to oversee the dismantling and removal of generating plant & ancillary equipment.
2. To assist Midlands Power to review and approve safety plan as required by CDM regulations, review and approve method statement and perform risk assessments.
3. Monitor project progress against the plan provided by the contractors
4. Liaise with contractors and the site owner (HP Bulmer) regarding site access for contractors' equipment and personnel.
5. Liaise with contractor and site owner regarding plant and equipment movements.
6. Supervise contractor to ensure they operate in line with safety plan and method statements.
7. Liaise with Station Manager on interfaces between contractors and ongoing site operations.
8. Manage contract documentation, and
9. Conduct site safety inspection.



CESS also completed a detailed decommissioning study for **Mott Ewbank Preece** on the 34 MW Mirrlees Power Station up here in the Orkney Islands:

In June 1997 CESS were asked by **Scottish Power** to carry out an inspection and provide an independent valuation of the 9.5 MW Mirrlees KV18 diesel engine generator set, to be decommissioned & removed from the **Lever Brothers'** UML Power Station in **England**.

In April 1998 CESS carried out a valuation and inspection report on the 72 MW Redbank diesel power station at Port Headland in **Australia** on behalf of Archer-Edwards Corporation prior to the plant being dismantled and barge-mounted. These units are now operating in **Dominican Republic**:

In May 2000, CESS were asked to perform a market valuation of 4 x 6.7 MW **Wartsila** 18V32 diesel engines stored in Rotterdam for **ENSCO** of Louisiana.

During February 2001, CESS was awarded a contract by **Merlin Production Inc** of Houston to prepare a detailed study of the **World's Power Barge Market**. This study was completed in March and also involved the preparation of a database listing all the World's power barges.



*Power Barges en route from Philippines to Brazil*

In August 2001, CESS were contracted again by **Arthur Andersen** to provide an independent review of the contract documentation and **Fuel Supply Agreement (FSA)** for the 100 MW **IPTL Plant (Independent Power Tanzania Limited)** diesel power project near Dar es Salaam in **Tanzania**.

During 2002, CESS were successful in the sale of two diesel generators, one to **Smit International** in Scotland and one to **Hydro-Drive** for an oil-related project in **Nigeria**.

In 2003, CESS carried out site inspection & appraisals on 29 x 800 kW diesel generator sets in **Tanzania** for **Rolls Royce Power Ventures**, who also appointed CESS to exclusively market this equipment.

In March 2003 CESS carried out inspection and valuation of 30+ MW of **Deutz** packaged generator sets from **Kenya**.

In July 2003, CESS was again successful in the sourcing of a 39 MW (6 x 6.5 MW) Fincantieri GMT diesel gen sets from China for a project in Vietnam, on behalf of Jacobsen Electro (Norway).



In October 2004 CESS was asked to carry out an inspection and valuation on the Dura 3 and Dura 4 Power Barges in the Philippines:



In July CESS completed inspection and appraisal of a 12 MW gas engine plant in Nigeria for Negris Group

In Nov 2005 CESS were again asked to perform desktop appraisal of the 2 x 55 MW power barges in Manila.



In April 2006, CESS were commissioned by Tasman Mauritania to inspect and appraise two 7 MW MAN diesels and were also awarded the subsequent marketing contract.

In June CESS inspected a 60 MW De Laval 60 Hz plant in Philippines.

In June 2006, CESS inspected and appraised a 25 MW Caterpillar engine plant in Cambodia

**In July 2006, CESS was involved in the inspection and appraisal of 6 x 1.5 MW Perkins containerized units for a project in Sao Tome.**

**In August 2006, CESS inspected and appraised 5 x 1500 kW MWM Deutz gen sets in Saudi Arabia for Al Suwaiket Trading and Contracting Company.**

**In August 2006 CESS was contracted by Caterpillar in Switzerland to manage the decommissioning, removal and packing of a 25 MW modular Cat plant in Cambodia for shipment to Chile. This project was completed in October 2006.**

**In October 2006, CESS was contracted to perform an appraisal of a 6 MW 60 Hz Colt Pielstick diesel in New York and then secured a Marketing Agreement.**

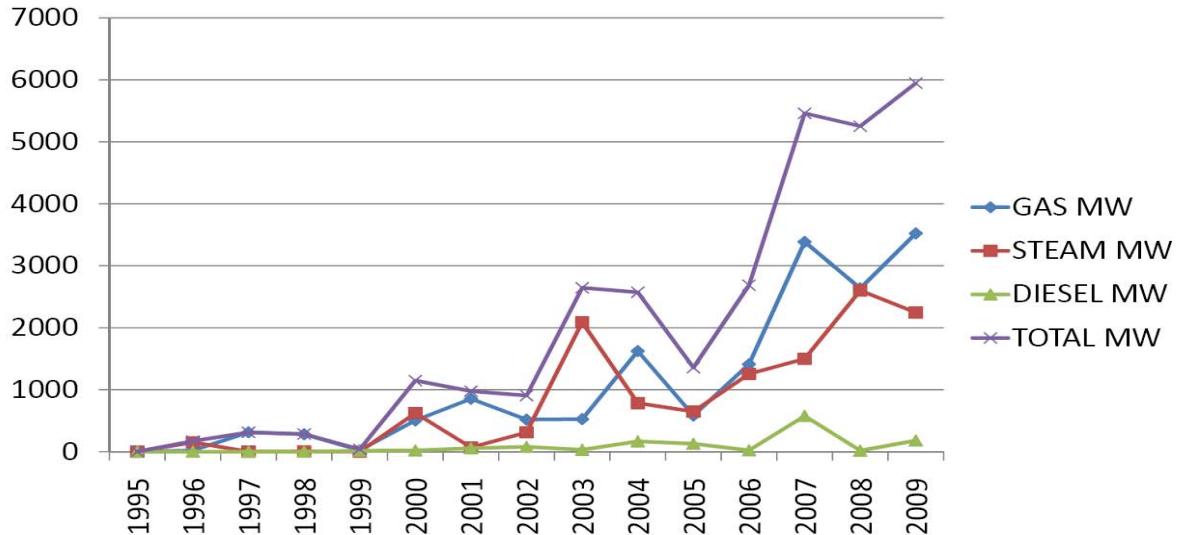
**In Feb 2007 CESS was contracted by Rolls Royce Power Ventures to provide estimated resale values on 3 X 5.5 MW Allen diesels in Mali.**

**In August 2007, CESS was commissioned to inspect and appraise 3 x 3.5 MW HFO Cat units in Thailand.**

**In Nov 2010 CESS was commissioned to inspect and appraise two Jenbacher gas engines for Independent Power in UK.**



## Valuations to date 2009



**Mike Craigie has also written two online articles for Energy Central:**

[http://www.energypulse.net/centers/article/article\\_display.cfm?a\\_id=1466](http://www.energypulse.net/centers/article/article_display.cfm?a_id=1466)

**Article Viewed 5142 Times**

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**Article Viewed 5519 Times**

Craigie Engineering Sales & Services Ltd (CESS) have to date been instrumental in the sale of 75 gas turbines (total 2,145MW), 37 steam turbines (1,362MW), 96 diesel/gas engines (230MW), and 45 transformers (total 616 MVA).

CESS has now reached an impressive total of over 53,910MW of valuation experience in the past ten years and these valuations have included:

- 413 gas turbines (including Allison, Rolls Royce, GE, Solar, Pratt & Whitney, Fiat, Ruston, GEC Alstom, Westinghouse, Mitsubishi, Siemens & ABB/Alstom)
- 183 steam turbines (including AEG, ABB, Ansaldo, Blohm & Voss, Elliott, Fuji, GE, Hitachi, Westinghouse, Siemens, Terry, Mitsubishi, Parsons, Stal, Allen, KKK, Peter Brotherhood, Daniel Adamson, AEI/EE, Worthington, Zamec & Alstom)
- 500 diesels (including Niigata, Pielstick, Crossley, Colt, Polar, MTU, MWM Deutz, Mirrlees, Enterprise-De Laval, Superior, MAN/B&W, Wartsila/NSD, Ruston, Cummins, Caterpillar/MAK, Rolls Royce/Ulstein/Allen)

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### **CESS Project Experience**

		Valuation	Marketing	Sourcing	Sale
<b>Gas Turbines</b>	<b>Number</b>	413	181	165	75
	<b>Capacity (MW)</b>	23076	8980	6450	2145
<b>Steam Turbines</b>	<b>Number</b>	183	122	59	37
	<b>Capacity (MW)</b>	19063.5	9979.5	8646	1362
<b>Diesel Engines</b>	<b>Number</b>	500	238	193	96
	<b>Capacity (MW)</b>	2110.5	1097.4	813.4	230.4
<b>Barges</b>	<b>Number</b>	35	19	91	6
	<b>Capacity (MW)</b>	1873	973	5452	354
<b>Transformers</b>	<b>Number</b>	213	125	84	45
	<b>Capacity (MW)</b>	7787.9	2783.4	1134.4	616.4

**Major Client list:**

- |  |                                       |
|--|---------------------------------------|
| ○ Tennessee Valley Authority               | ○ GE Finance (Indonesia)              |
| ○ JP Morgan Securities (Hong Kong)         | ○ Nomura Research Institute (Japan)   |
| ○ BASF Refinery (Belgium)                  | ○ SAPPI (South Africa)                |
| ○ PSEG Global Limited (London, UK)         | ○ Stewart & Stevenson Int' Inc. (USA) |
| ○ Scottish Hydro Electric plc (UK)         | ○ International Power (UK)            |
| ○ Rolls Royce Power Ventures Ltd UK)       | ○ Slough Heat & Power (UK)            |
| ○ BC Hydro (Canada)                        | ○ Sabah Shipyards (Malaysia)          |
| ○ Exxon Corporation (Esso UK)              | ○ Jacobsens-Elektro A/S (Norway)      |
| ○ Maritrans Tankers (USA)                  | ○ Midlands Power International (UK)   |
| ○ Allegheny Energy (USA)                   | ○ Reliance Industries (India)         |
| ○ Contact Energy Ltd (New Zealand)         | ○ Pentex Oil & Gas (UK)               |
| ○ PriceWaterhouse Coopers (Malaysia)       | ○ ENSCO (Louisiana, USA)              |
| ○ BPB Paperboard (UK)                      | ○ Trust Power Ltd (New Zealand)       |
| ○ AECI Operations Services (RSA)           | ○ Renova AB (Sweden)                  |
| ○ Smit International Ltd (Scotland)        | ○ Bahrain Electricity ST (Bahrain)    |
| ○ Peak Pacific Investments (China)         | ○ GATX Capital / AARM (Australia)     |
| ○ Miller International Loss Adjusters (UK) | ○ Ernst & Young (Malaysia & UK)       |
| ○ Petroplus (Netherlands/UK)               | ○ Negriz Group (Nigeria)              |
| ○ JP Morgan Chase (Hong Kong/UK)           | ○ EPCOR (Canada)                      |
| ○ Tri Energy (Thailand)                    | ○ Jaguar Energy (Belize)              |
| ○ Tasiast Mauritanie Ltd (Mauritania)      | ○ Genesis Power (Sao Tome)            |
| ○ China Light & Power Ltd (Hong Kong)      | ○ Tata Chemicals (India)              |
| ○ Carron Engineering & Const'n (UK)        | ○ Masood John Brown (India)           |
| ○ Sree Rayalaseema Alkalies (India)        | ○ Blue Crest Capital (UK)             |
| ○ Synergy Capital (Pakistan)               | ○ Sita Limited (UK)                   |
| ○ Morgan Stanley (USA)                     | ○ Industry & Energy Assoc' LLC (USA)  |
| ○ Hermes (Netherlands)                     | ○ Green Frog Fuel (UK)                |
| ○ Bank of America Leasing (USA)            | ○ Elyo Facilities (UK)                |
| ○ Nucor Corp (USA)                         | ○ Crown Cork (Cambodia)               |
| ○ Standard Bank (South Africa)             | ○ Premier Power (UK)                  |
| ○ GDF/Suez (UK)                            | ○ Parsons Brinkerhoff Power (UK)      |

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Craigie Engineering Sales & Services Ltd (CESS) is based in Stromness in the Orkney Islands, which is just off the North coast of Scotland.

From these headquarters we use IT and data transfer systems to handle upwards of 200 enquiries per month for all types of power generation equipment including gas & steam turbines, diesel engines and related ancillary equipment, right through to complete process and petrochemical plants etc. The origin or final destination of these projects can be anywhere from Alaska to Zimbabwe and CESS has already processed over 18,000 separate enquiries from 203 countries. Facilities and equipment include 200 sq m of office space, the latest e-mail, Internet, file transfer software, colour scanning, imaging and printing facilities all of which guarantee a fast and professional response to enquiries from clients.

**CESS also offer a “turnkey” service on surplus plant which ranges from the preliminary appraisal/evaluation and subsequent marketing, through to handling the sale, decommissioning/dismantling, preservation, packing, shipping, re-erection and commissioning.**



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