



CESS Power Barge Experience

Head-quartered in Stromness in the Orkney Islands, **Craigie Engineering Sales & Services Ltd (CESS)**, was formed in March 2010 and has rapidly developed as one of the World's leading sourcing, valuation & marketing agents and suppliers of surplus and "advance-order" power plant and related equipment.

CESS provides a prompt and effective response on inquiries for power plant and prime movers - gas & steam turbines, diesel engines, hydro turbines, etc. - along with ancillaries, such as transformers.

The Company can also provide the manpower required for project development, feasibility studies, asset and surplus equipment valuation, environmental impact assessment (EIA), engineering design, procurement, construction, commissioning and eventual de-commissioning, dismantling and removal/recycling of such facilities usually on a contract basis.



In June 1998 CESS were contracted by Sabah Shipyards to perform a market valuation report on their 5 power barges (totaling 420 MW) which they have available as a result of various cancelled IPP projects.

During February 2001, CESS were 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.



In June 2001 CESS were appointed by Arthur Andersen to perform inspections and market valuation report on the *Victoria 8 Power Barge* (48 MW, W251 in Kenya):



In June 2001 CESS was also appointed by Arthur Andersen to perform inspection and market valuation report on the *Victoria One* (115 MW, W501D5 Gas Turbine power barge in Dominican Republic):



During May 2003 CESS were again contracted to carry out inspection and valuation reports on the Power Barges, *Victoria 5* (96 MW, 2 x W251B11) and *Victoria 7* (70 MW CCGT) for Ernst & Young Malaysia and awarded the project management on the *Victoria 8* Power Barge in Kenya. That manager has now been on site for over 5 years:





In October 2004 CESS was asked to carry out an updated inspection and valuation on Victoria One power barge in Dominican Republic for a leading financial institution.

CESS was also commissioned in May 2005 by Pacifico in Malaysia to inspect and appraise the Victoria 8 power barge (48 MW) in Kenya.



In March 2007 CESS also again completed a due diligence inspection for purchase on the Westinghouse 501D5 barge-mounted gas turbine in Dominican Republic.

During May 2007 CESS were again contracted to carry out inspection and valuation reports on the Power Barges, Victoria 5 (96MW, 2 x W251B11) and on the Victoria 8 Power Barge in Kenya:

The Power Barges Victoria One, Five and Eight were then bought by the client of CESS in June/July 2007.

Victoria One was subsequently relocated from Dominican Republic to Guayaquil, Ecuador:



In October 2008 CESS carried out a general/external inspection on the condition of Victoria 5 (now renamed Dynami 2) and moored alongside in Labuan. Cables still need to be pulled and condition of any outstanding work on gas turbines and ancillaries (e.g. 11/132 kV T/F) was not assessed:



In October 2010 we were contracted to again inspect Dynami 2 in Angola.

CRAIGIE ENGINEERING SALES & SERVICES Ltd has to date been instrumental in the sale of 75 gas turbines (total 2,145MW), 37 steam turbines (1,362MW), 96 diesel/gas engines (230 MW), and 45 transformers (total 616 MVA).

CESS has now reached an impressive total of over 52,000MW of valuation experience in the past ten years and these valuations have included:

- **396 gas turbines with total of over 21,593MW (including Allison, Rolls Royce, GE, Solar, Pratt & Whitney, Fiat, Ruston, GEC Alstom, Westinghouse, Mitsubishi, Siemens & ABB/Alstom)**
- **182 steam turbines with total of 18,706MW (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)**
- **493 diesels with total of over 1,867MW (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)**

CESS Project Experience

		Valuation	Marketing	Sourcing	Sale
Gas Turbines	Number	396	173	163	75
	Capacity (Mw)	21593	8680	6310	2145
Steam Turbines	Number	182	119	58	37
	Capacity (Mw)	18706	8972.5	8586	1362
Diesel Engines	Number	493	233	151	96
	Capacity (Mw)	1850.5	1082.4	572.4	230.4
Barges	Number	35	19	91	6
	Capacity (Mw)	1873	973	5452	354

Major Client list:

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

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

http://www.energypulse.net/centers/article/article_display.cfm?a_id=1466

Article Viewed 5299 Times

http://www.energypulse.net/centers/article/article_display.cfm?a_id=654

Article Viewed 5666 Times



CESS have now sold equipment or provided manpower into Saudi Arabia, Dubai, Afghanistan, Kuwait, South Africa, Botswana, Swaziland, Tanzania, Mauritania, Mali, Kenya, Nigeria, Dominican Republic, USA, Bolivia, Chile, Italy, Germany, Finland, Poland, Ecuador, Belize, Eire, Scotland, England, Malaysia, Philippines, Cambodia, China, New Zealand, Indonesia, Thailand, Vietnam, Singapore, Hong Kong, Australia, New Zealand, India and Brunei.

Head Office:

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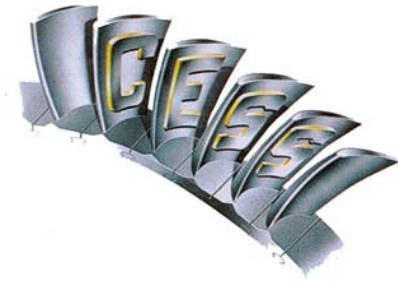
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CRAIGIE ENGINEERING SALES and SERVICES Ltd (CESS) is based in Stromness in the Orkney Islands, which is just off the North coast of Scotland.

From these headquarters we use IT and data transfer systems to handle upwards of 150 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 16,400 separate enquiries from 141 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.

