

Petrochemical and Offshore

This is a list of some projects in the petrochemical and offshore sector for which Spectrum has provided acoustic consultant or noise consultancy services.

Client	Project	Description of Services
ADMA-OPCO	Zakum Crestel GIP Platform	FEED Noise Study for 3 rd Gas Compression Train on the Zakum Crestal GIP Platform for Technip Abu Dhabi
ADMA-OPCO	Upper Zakum Field	Noise consultancy and modelling services for FEED stage. For Technip Abu Dhabi
ADNOC	Onshore Gas Development Project 1219	Noise consultancy services for expansion of large gas treating plant. Computer simulation of environmental noise levels using Vendor and empirical noise data. Outline noise control design on major sources of noise. Commissioning tests on completion. For Technip-Bechtel Joint Venture
ADNOC	Onshore Gas Development Project 545	Noise consultancy services for large gas treating plant, including background site survey, and surveys on completion of each phase of the project. Computer simulation of environmental noise levels using Vendor and empirical noise data. Outline noise control design on major sources of noise. For Bechtel – Technip Joint Venture
ADNOC	Ruwais Refinery, Sulphur Handling Facility Expansion	Commissioning noise survey; advice on retrofit noise controls. For Technip
ADNOC	Habshan Gas Treatment Plant	Remedial noise reduction study on high pressure valves. For Technip Abu Dhabi
ADNOC	Onshore Gas Development OGD2	Noise consultancy services from original noise allocation report, through detailed design and specification, to commissioning noise surveys on site in Abu Dhabi
AGIP KCO	Kashagan Project, Kazakhstan and Caspian Sea	FEED and EPC noise and vibration consultant reporting to operator on all onshore and offshore sites for this 30 billion \$US development. Noise modelling, specification and design. Vibration evaluation. For AGIP KCO
BAPETCO	Obaiyed Gas Plant, Egypt	Site Noise Survey, Environmental Noise Survey and engineering noise control recommendations on new gas plant
BG	Gaupe and NW Seymour, North Sea	Acoustic Induced Vibration (AIV)/Flow Induced Vibration (FIV) studies for new blowdown lines. For AMEC
BG	Everest East Expansion, North Sea	Acoustic Induced Vibration (AIV)/Flow Induced Vibration (FIV) studies for new flowline blowdown line. For AMEC
BG	Lomond Platform, UK North Sea	Vibration Induced Fatigue Study, for AMEC

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BG – Queensland Gas Company	QCLNG Coal Seam Gas Project, Queensland, Australia	Noise measurement and design study for 9 new, and 5 existing onshore drilling rigs. BAT Noise Study. Surveys in Australia and Canada
BG Tunisia	Miskar Gas Compression Platform Project	Platform ambient noise survey, noise prediction study including contours, pipe noise recommendations. For Bechtel
BOC/Linde Group	Canterell Project, Mexico	Noise specification, noise modelling and consultancy services
BOC/Linde Group	PEMEX Plant, Mexico	Boundary noise prediction study
Born Heaters Inc.	Development	Burner noise control study for CHD charger heater
Born Heaters Inc.	Development	Burner noise control study for Dowtherm G heater
Boustead International Heaters Ltd	Statoil Johan Sverdrup Offshore Platform	Noise Predictions for 3 x Fired Heaters
BP Exploration	Clair Ridge	Noise and vibration study of Drilling Equipment Set (DES) and Drilling Support Module (DSM) for RDS/ KCA Deutag
BP Petroleum Development	Welton Gathering Centre Upgrade Project	Noise consultancy services including background site noise measurement, specification of noise limits and noise control requirements. Survey of completed project. Infranoise design study. Witnessed noise tests at Vendors works. For BP and Costain Oil, Gas and Process
Burullus Gas Company	Scarab Saffron Development Project, Egypt	Preparation of detailed noise study of proposed gas plant, including on-site and off-site noise modelling. For Bechtel
Caithness Oil and Gas	Lybster wellsite, UK	Noise Impact Assessment
ConocoPhillips	Jasmine Area Development, North Sea, UK	Full noise consultancy services, including noise modelling and noise control design and reporting. Flare collection system Acoustic Induced Vibration (AIV) study. Flare collection system Flow Induced Vibration (FIV) study including Flow Induced Turbulence (FIT) and Flow Induced Excitation (FIE). For WorleyParsons/AMEC
Cuadrilla Resources	Shale Gas Drilling Programme, Lancashire, UK	Planning noise assessments for drilling phase for eight proposed wellsites, including background noise surveys, computer noise predictions. Long term noise monitoring of fracking activity. Monitoring of vibration.
Cuadrilla Resources	Haywards Heath, UK	Planning noise assessment for drilling phase
Cuadrilla Resources	Park Farm, Bolney, East Sussex	Planning noise assessment for drilling phase
Cuadrilla Resources	Preece Hall, Fylde, Lancashire	Noise and vibration surveys through drilling operations to discharge planning consent conditions
E.ON UK	Connah's Quay Gas Treatment Plant	Noise consultancy services including setting specifications; carrying out computer simulation of environmental noise; detailed acoustic design of buildings, pipe insulation and in-pipe acoustic pods; advice to client on purchasing noise control. For Costain Oil, Gas and Process

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EDF Energy	Hole House Gas Storage Facility, UK. Phase 3	Noise consultancy services including detailed noise control design, specification and modelling
Elf Oil (UK) Ltd	Milford Haven Refinery FCCU Waste Heat Boiler	Infranoise investigative design study. Baseline environmental and on-plant noise survey. Establish monitoring procedure. Noise control design study on major sources of noise. For Elf Oil
Elf Oil (UK) Ltd	Oil Refinery, Milford Haven	Commissioning noise survey of new HDS plant, including on plant and field environmental noise levels. For Elf Oil UK Ltd
Elf-Atochem	Polystyrene Plant, Cheshire, UK	Noise surveys and noise control design. For Elf-Atochem
Equate Petrochemicals	Gas Compressor Noise Reduction Study, Kuwait	Noise study with recommendations to reduce noise levels of up to 110 dB(A) from high pressure sidestreams. For Equate Petrochemicals
Europa Oil and Gas	West Whisby 1, Exploration Well Site	Planning noise assessment for drilling phase. For Petroleum Safety Services
Exxon Geopolymers	Polymer Plant, South Wales UK	Noise survey. For Exxon Geopolymers
FLEX LNG	Elk and Antelope Fields, Papua New Guinea. FPSO.	Noise consultancy, and noise modelling for FPSO topsides. Recommendations for additional noise control.
Gulf Oil Refinery Ltd	Milford Haven Refinery, Wales	Environmental noise study. For Gulf Oil
IIOC	Reshadat Renovation and Development Project, Iran	Noise prediction study and outline noise control for EPC phase of offshore topsides. AIV study for flare system. For SADRA/AtkinsGlobal
MAN Ferrostaal	Sohar Methanol Project, Oman	Site noise survey and noise control study with recommendations for noise reduction measures
Moorland Energy	Kirby Misperton Well site, North Yorkshire	Planning noise assessment for drilling phase. For Petroleum Safety Services
Murco Petroleum	Milford Haven	Noise control study
Murco Petroleum	FCCU power recovery train, Milford Haven, UK	Noise assessment and report
Murphy Oil	Milford Haven Refinery	Flare noise monitoring and noise study
National Grid	Felindre, Wormington and Churchover, UK	Noise modelling, noise control specification and design. Surveys. New/upgraded gas compression stations. For AMEC
Northern Petroleum	Markwells Wood, Hampshire	Planning noise assessment for drilling phase. Noise monitoring during drilling operations
Northern Petroleum	Singleton, Chichester	Planning noise assessment for drilling phase
Ovivo	Statoil Gina Krog Offshore Platform	FAT equipment noise test on a water maker using sound intensity to ISO 9614-2
Ovivo	Statoil Johan Sverdrup Offshore Platform	FAT equipment noise test on a water maker using sound intensity to ISO 9614-2

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Rathlin Energy	West Newton and Keyingham Wellsites, UK	Noise studies and assessments
Reliance Petroleum	Jamnagar Refinery, India	Preliminary and final noise studies. Computer modelling and specifications. Upgraded refinery project. For Bechtel
Scottish & Southern	Aldbrough Gas Storage Project, UK (EPC)	Detailed noise modelling, detailed specification and design of noise control treatment to meet onerous on-plant and environmental noise limits for this large gas storage project. For AMEC
Scottish Power	Byley Gas Storage Project, UK (FEED)	Noise consultancy services including preliminary noise modelling and outline noise control designs for plant and buildings. For AMEC
Shell Expro	Puraspec Absorbers, St Fergus	Noise prediction study of Puraspec Absorber Depressurisation for Costain Oil, Gas and Process
Shell Expro	Replacement Turbo-Expander, St Fergus	Noise prediction study of two pipework options for replacement Turbo-Expander. For Costain Oil, Gas and Process
Shell Expro	Turbo-Expander, St Fergus	Noise control design study. For Shell Expro
Shell Expro	Fife NGL Module 3, Mossmorran, Fife	Noise consultancy services and prediction of noise from 3 rd module. Site noise survey of background and operational noise. For Costain Oil, Gas and Process
Shell Nigeria	Cawthorne Channel AG Gathering project, Nigeria	Noise modelling and noise design services as part of EPC for 5 site project. Noise Control Reports. For Nama Mott MacDonald, Abu Dhabi
Sonatrach	Arzew LNG Plant, Algeria	Noise reduction study
Southern Gas Networks	Solent Gas Pipeline	Planning noise study during drilling. For LMR Drilling
Star Energy	Humbly Grove, UK	Occupational noise assessment
Star Energy	Singleton, UK	Occupational noise assessment
Statoil	Luva Spar, Norwegian North Sea	FPSO FEED noise study, for Technip USA
Statoil	Peregrino 2, offshore Brazil	Pre FEED noise and vibration feasibility studies of 32 MW diesel engine power module alternative locations. For Worley Parsons, UK
Statoil	Peregrino 2, offshore Brazil	FEED noise and vibration study for Drilling Module, for RDS/KCA Deutag
Statoil	Mariner, North Sea	Detailed design noise and vibration studies working for RDS/KCA Deutag, CB&I and DSME including PAGA and HVAC assessments
Total Fina Elf	Al Khalij Field Development Project, Qatar	Preliminary EPC noise study. For Nama Mott MacDonald
Total UK	Milford Haven Refinery	Noise and Vibration at Work assessments
Tyco	Statoil Johan Sverdrup Offshore Platform	FAT equipment noise test on 2x Hydraulic Power Units (HPU) using sound intensity to ISO 9614-2

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United Gas Storage	Hole House Gas Storage Site, Warmingham, Cheshire, UK	Background noise survey and noise assessment study. Drilling noise surveys
Viking (UK) Gas	Malton 1 wellsite, KM1 wellsite, Ebberston Moor wellsite, UK	Noise studies and assessments
Wingas Storage (UK) Ltd	Saltfleetby Gas Storage Facility, UK	Noise section of EIA (for Wingas) and noise consultancy and modelling work for FEED for Costain Oil Gas and Process. Expert testimony in subsequent Public Inquiry. For Wingas
Wingas Storage (UK) Ltd	Saltfleetby St Peter	Ground vibration survey
Worley Parsons/Statoil	Bressay, North Sea	Concept phase noise risk assessment
Yemen LNG	Alif Central Processing Unit Phase 2 Cryogenic, Compression And Power Units	Noise modelling, meetings, outline noise control design, for EPCC phase of project. For Technip France – Abu Dhabi