We specialise in providing major accident hazard risk management services to the energy sector. We have a highly experienced team, many of whom have extensive project and operational experience in a variety of industries ranging from onshore and offshore oil and gas, through process plants to nuclear. We aim to provide effective safety, risk and reliability solutions that enable companies to improve safety, increase efficiency and meet in-house standards and regulatory requirements. We support the entire life cycle from acquisition, through project development, operations and abandonment. With regional offices in the Americas, UK, Russia, Australia and South East Asia we provide a complete range of safety, risk and reliability support to industry.

**Our Services**

Our services include the following:

- Facilitating and documenting Hazard Identification (HAZID) and Hazard and Operability (HAZOP) studies;
- Consequence analyses of major accident events;
- Major accident studies, including Emergency Systems Survivability Analysis (ESSA), Fire, Explosion, Blowout Risk Assessment (FEBRA), Smoke & Gas Ingress (SGIA), Evacuation Escape & Rescue Analysis (EERA), Temporary Refuge Impairment Analysis (TRIA) and Major Marine Hazards Analysis (MMHA);
- Qualitative and quantitative risk assessments using fault trees, event trees and BowTie risk analysis;
- Safety Integrity Level (SIL) and Layers of Protection Analysis (LOPA) studies;
- Reliability, Availability & Maintainability (RAM) studies;
- Road/Air/Sea Transportation Risk Analyses;
- Onshore Control of Major Accident Hazards (COMAH) Safety Reports and Emergency Plans;
- Identification of Safety and Environmental Critical Elements and preparation of Written Schemes of Examination;
- Development of Process Safety Management Systems;
- Plant Start-up and Shutdown risk assessments.

Our ability to deliver fit for purpose risk solutions is supported by our wider HSE experience in, for example: preparation of safety cases; management system development and implementation; delivery of HSE training to all levels of the workforce, development of Emergency Response procedures and preparation of inter-company simultaneous operations (SIMOPS) and HSE MS bridging documentation.
The RPS Process Safety, Risk & Reliability Engineering Group has worked with over 200 oil and gas companies including majors, independents and national oil and gas companies. Some examples of recent work we have delivered are summarized below:

**ENI Saipem**
Undertaking an Evacuation Escape & Rescue Analysis (EERA) study for inclusion in the ENI Saipem 10000 safety case.

**Transocean**
Safety Case and related risk study development (HAZID, QRA, FEA, ESSA, EERA, BowTie, ALARP) for Semi-submersibles SEJCO 703, MG Hulme; Legend; Jack Bates and Drill ships; Deepwater Frontier; Deepwater Expedition; Deepwater Millennium.

**Diamond Offshore**
Safety Case and related risk study development (HAZID, QRA, FEA, ESSA, EERA, BowTie, ALARP) for Semi-submersibles Ocean America, Ocean Patriot, Ocean Rover; and Jack-ups; Ocean Bounty, Ocean Shield, Ocean Epoch.

**Enseco**
Safety Case and related risk study development (HAZID, MAH, QRA, FEA, FEBRA, ESSA, EERA, M-MHA, TRIA, BowTie, PFEER, ALARP) for Semi-submersibles 5006, 7500, 8500, 8501, 8502, 8503, 8504, 8505, 8506; Jack-ups 56, 92, 104, 109, 107, 120.

**BG Group**
White Bear Well Engineering Group; BowTie risk analysis of drilling activities and delivery of BowTie training to offshore personnel for White Bear Well operations.

**Petromanas/Shell**
Helicopter/Road transportation quantified risk assessment (QRA) trade-off study for an Albanian land seismic campaign.

**Hess**
EDD (Risk Study) including peer review of supporting safety studies, HSE Dossier and Internal Intervention plan (IIP), in accordance with Algerian regulatory requirements, for a new build onshore oil and gas facility.

**Gazprom-Neft-Shelf**
Major HAZOP programme for 64 engineering systems and drilling operations for the Priprazlomnaya offshore PDQ platform prior to the commencement of operations.

**Locations**
Geographically, our consultants have supported clients on both onshore and offshore projects in most regions of the world, as seen in the darker shades of the globe.