



Geotechnical

Marine Geotechnical Services

EPI provides specialist geotechnical expertise across pre-planning, operations and post drilling. Our experience covers renewables, hydrocarbons and engineering

Pre-investigation Planning

- Vessel selection and audit
- Equipment selection and audit
- Drilling, sampling and testing program planning

Drilling Operations

- Onsite data QA/QC
- CPT data evaluation and processing
- Test data evaluation and interpretation
- On site preliminary engineering analysis

Post Drilling Consultancy

- Laboratory test assignment based on engineering requirements
- Contractor report review
- Pre-FEED engineering services, soil parameters interpretation from CPT and laboratory test results
- Geotechnical engineering analyses:
 - Jackup leg penetration for jackup rig emplacement
 - Pile capacity for offshore structures
 - Pile driveability
 - Mudmat shallow foundation design
 - Cable/pipeline burial assessment
 - Slope stability assessment
 - Suction caisson/pile analyses
 - Seismic response, earthquake and liquidation study
 - Soil and pile interaction study
 - Detailed ground modelling

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Case Studies

We have a proven track record, covering a wide range of services including:

- Jackup rig emplacement analysis in accordance with SNAME and ISO recommendations.
- Pile capacity evaluation and driveability studies in accordance with API standard recommendations and CPT methodology.
- Shallow foundation design and mudmat analyses.
- Mooring design evaluation for FPSO installation
- Suction pile capacity
- Deep water soil parameter interpretation
- Pile installation shallow hazard interpretation

Delivered across the Asia Pacific region, including Indonesia, Taiwan, Malaysia and Vietnam.

Our previous clients include:



PETRONAS

