



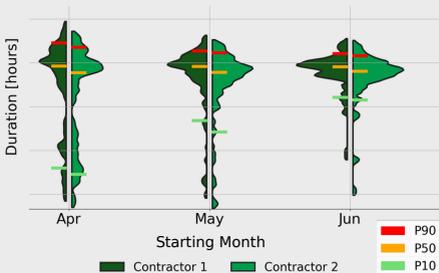
OPERATION SIMULATION SOFTWARE

Scott Marine Cicada is bespoke in-house software used to assess the impact of weather and other external factors on any offshore operation. This capability enables our engineers to provide insight and deliver tailored solutions to offshore projects.

Key Benefits

- ▶ Quantifying Schedule Risks
- ▶ Comparing Construction Strategies
- ▶ Optimising Planning
- ▶ Quantifying Impact of Operational Improvements
- ▶ Understanding Impact of External Delays
- ▶ Identifying Areas for Reducing Costs
- ▶ Improving Operational Certainty

Distribution of Durations for Component Installation



Our Clients

Our simulation software is designed to give answers to:

Installation Contractors	Windfarm Developers	Oil and Gas Operators
Vessel Operators	Claims Handlers	Ports and Harbours

Cicada Applications



Initial Project Planning

Early key performance indicators



Objective Tender Evaluation

Objective, weather-based assessment of contractor proposals



Process Optimisation

Identify critical improvements and quantify impact



Stochastic Program Stress Testing

Quantify other delay causes such as breakdowns, geotechnical risk or supply delays.



Forensic Weather Downtime Analysis

Support delay claims with evidence



Contractual vs Operational Limit Comparison

Compare expected vs actual vessel and equipment performance





KEY USES

Designed by Offshore Specialists for Offshore Specialists - Cicada allows Scott Marine to optimise, simulate and manage complex offshore operations including:

- ▶ Identifying optimal start windows
- ▶ Evaluating the impact of start month and seasonality
- ▶ Reviewing vessel strategies
- ▶ Assisting in contractor selection
- ▶ Assessing site-specific metocean conditions
- ▶ Reviewing weather sensitivities across key operations

Marine Operation Examples



- Foundation Installation
- Cable Installation
- Feeder Vessels
- Wind Turbine Installation
- Offshore Site Investigation
- Transport Route Analysis
- Personnel Transfer
- Port & Quayside Utilisation
- Weather Restricted Jack Up Operations

Progress Forecast for Component Installation

