

Floating Substructure Module

Metocean Load Cases

- Extreme
- Fatigue
- Peak rotor thrust
- Peak operating wind loads
- Peak operating wave loads

Loading

- Hydrodynamics
- Aerodynamics
- Rotor thrust
- Rotor torque
- Buoyancy
- Gravity

Design Variables

Platform

- Ballast
- Buoyancy columns
- Pontoons
- Plates
- Configuration

Mooring

- Catenary
- Taut angled
- Taut vertical

Anchor

- Drag
- Suction pile
- Torpedo
- Gravity

Constraints

- Standards: Elastic deformation
- Standards: Column buckling
- Structural modes
- Structural fatigue
- Manufacturing limits

Platform Response

- Static 6 DOF
- Dynamic 6 DOF
- Elastic stress
- Structural modes

