

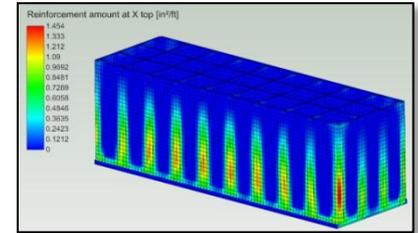
-CivilFEM makes the difference-

Multidisciplinary Advanced Non-linear FEM Analysis Software

Offshore Structures

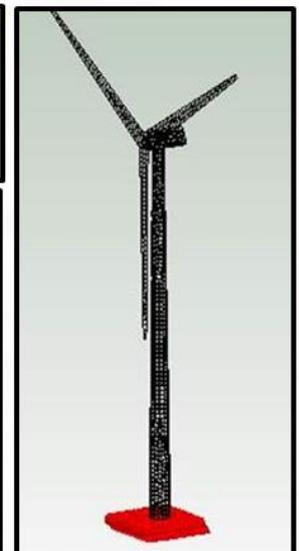
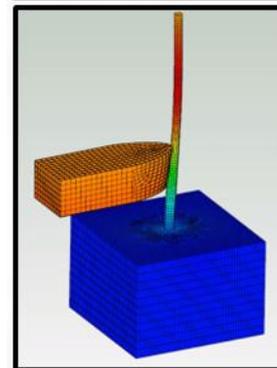
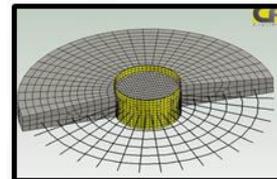
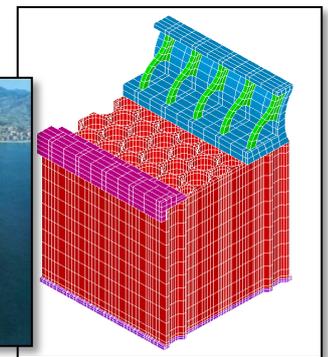
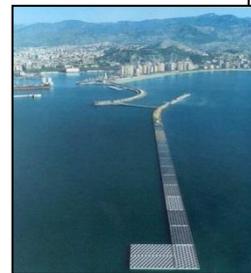
“CivilFEM® works in the same way as you build”

Analyze the entire construction process in a single model: CivilFEM facilitates the virtual simulation of all the non-linear construction processes in a straightforward sequential way by means of its tools, time-dependent properties and activation and deactivation of materials.



OFFSHORE CAPABILITIES HIGHLIGHTS

- Check & design of steel, reinforced & prestressed structures
- Non-linear evolutive construction process
- Time dependent material properties
- Soil-structure interaction analysis
- Non-linear soil behavior laws: Drucker-Prager, Mohr-Coulomb (cohesion and variable angle of friction) and tensile Cam-Clay
- Hardening laws (kinematic, isotropic & combined) creep & shrinkage
- Non-linear multibody advanced contacts
- Seismic design (response spectrum and non-linear time history)
- Hydrodynamic masses (modal, spectral & transient)
- seepage
- Cracking & crushing
- Non-linear spring and dampers
- Parametrization & programming with Python
- Follower forces. Large deflection
- Initial stress. Effective stresses
- Prestressed reinforced concrete



CivilFEM® powered by Marc® is a very powerful and versatile program suitable for all the types of advanced analyses performed in all construction sectors, providing a rich set of tools that streamline the creation of analysis models for Construction, Dams, Civil engineering, Tunnels, Geotechnics, Mining, Energy, Oil & Gas, Precast, etc.

With its intuitive user friendly interface and pre/post features, it is very easy to learn. The powerful (included) Marc® from MSC® Software non-linear solver aids to solve the most demanding and complex advanced analyses. ®Trademark property of their respective owners