

## Offshore safety studies

Gexcon specialises in industrial explosion risk. For over 40 years, Gexcon has performed dedicated experimental research in the field of explosion safety, which has led to the development of the world-leading CFD-software FLACS-CFD for dispersion, explosion and fire modelling.

Gexcon offers highly qualified services in the area of offshore explosion safety worldwide. These services include risk assessments of petrochemical facilities, accident investigations, and explosion safety studies.

### Key services

#### Explosion risk and safety studies

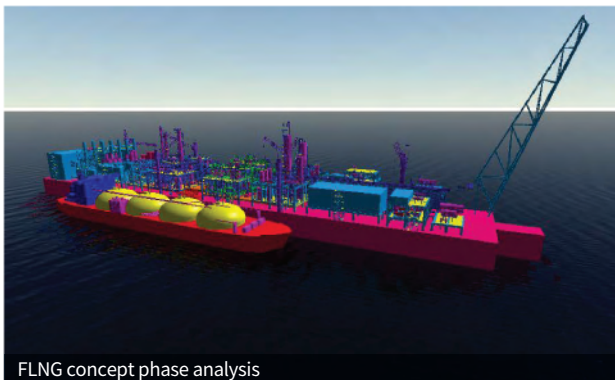
- Accurate 3D representation of offshore facilities
- Probabilistic or realistic worst-case studies
- Evaluate mitigation possibilities (layout, ventilation, deluge)
- Evaluate layout to provide guidance on inherently safer designs

#### Ventilation and dispersion studies

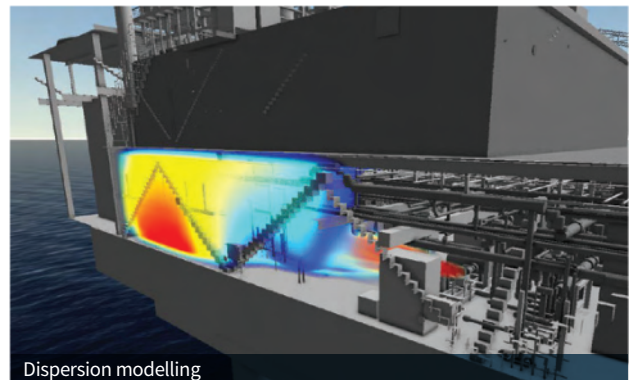
- Gas detector layout optimisation studies
- Helideck and exhaust studies

#### Advanced concept & FEED phase design

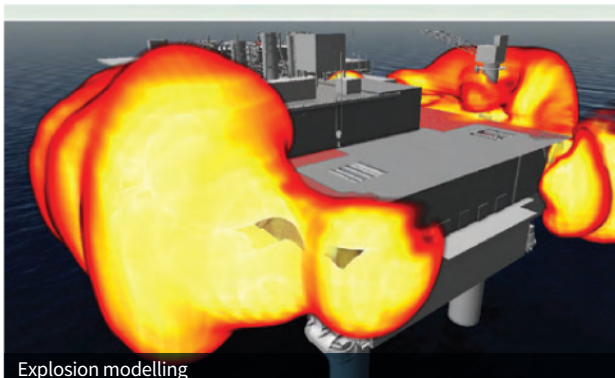
- Advanced anticipated congestion methodology for early CAD design
- Dedicated CAD team to develop realistic 3D models for studies
- Evaluate ALARP – inherently safer design



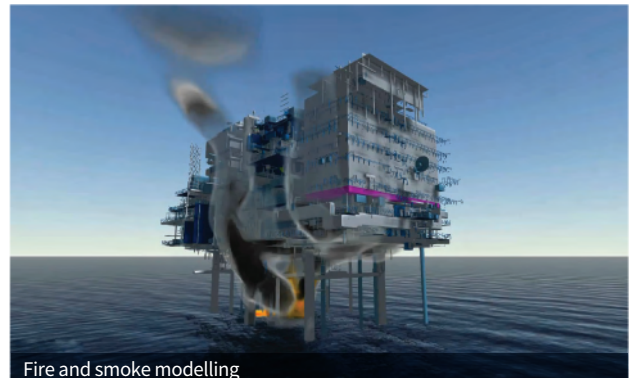
FLNG concept phase analysis



Dispersion modelling



Explosion modelling



Fire and smoke modelling