

SWIRE ENERGY SERVICES

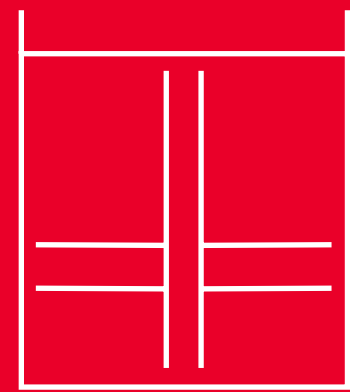
# Mongstad | Norway





We operate along the **Norwegian** coastline using **local experts** to speedily deploy our extensive services – ensuring we are the easiest company to work with in this area.

Our base in **Mongstad** offers a range of Services including:



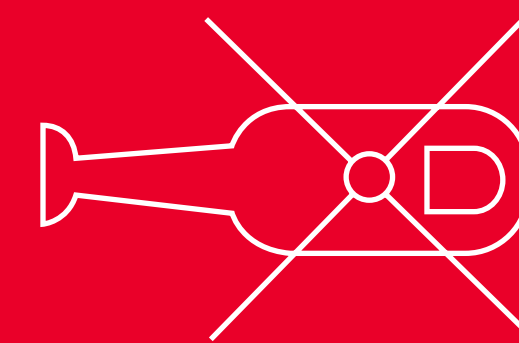
**Offshore  
Containers**



**Integrity**

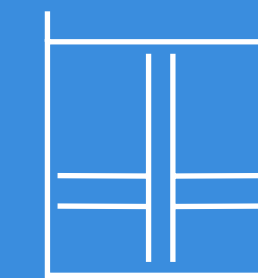


**Chemical**



**Aviation**

# Offshore Container Services



Our fleet covers all major product areas of containers, tanks and baskets. We are operating closely with our major customers and logistic companies and are well positioned to cover the need.

Offshore Container Services are essential for transporting project critical equipment and material offshore. Managing a fleet of containers, tanks and baskets can be costly and labor intensive. With an ever-increasing demand to enhance efficiencies whilst reducing costs, Swire Energy Services can provide the required solution.

With over 40 years of experience, we offer a fleet management service to allow our customers to focus on their core business. Each solution is fully tailored with the aim of streamlining and simplifying processes to increase utilization and drive considerable cost savings.

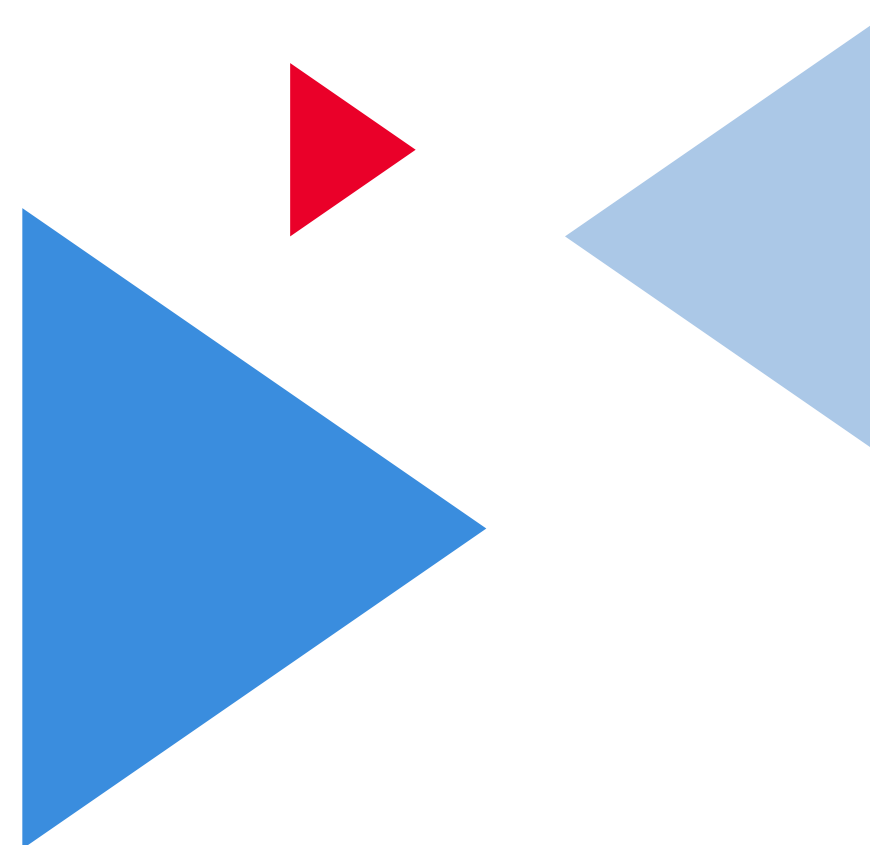
Swire's team of expert in-house engineers have a wealth of experience in the design of DNV rated offshore containers, offshore modules, and specialized equipments.

## Key Services:

- Inventory Management
- Fleet Management Coordinator
- Inspection and Maintenance
- Asset Tracking
- Transportation Management
- Reporting

## We offer for rental and sale:

- Offshore container/Equipment sales
- Offshore Pressurized Modules
- Workshop/Storage/Bespoke Containers
- Fleet Management
- Offshore Transport Containers
- Offshore IMO-1 Transport Chemical Tanks
- Offshore Storage Chemical Tanks
- Subsea Baskets
- Offshore Transport Baskets
- Offshore Skips
- GPS tagging/OverVu software system





# Integrity Services

Our advanced technical knowledge and experience allows us to provide Testing & Inspection Services with high competence and quality. We have a long history of participation in establishing industry standards and best practice.

## Testing & Inspection

- Certification Management
- Non-destructive examination Onshore
- Certified annual inspection of lifting equipment On/Offshore

## Managed Services

- Tank Management
- Coupling Management
- Logistics

## Engineering & Services

- Equipment Cleaning
- Minor Equipment Maintenance & Refurbishment

## Lifting Services

- Lifting Equipment Supply
- Wire Rope Product Supply



To ensure that Swire Energy Services AS is the easiest company to work with, our personnel can provide complementary services from our other Norwegian locations including:

## Testing & Inspection

- Electrical Services On/Offshore (Tananger)
- Certified annual inspection of lifting equipment Offshore (Tananger, Florø and Hammerfest)
- Non-destructive examination Offshore (Tananger, Florø and Hammerfest)
- Technical Support Services (Tananger)
- Paint Inspector FROSIO (Tananger)
- IMO/IMDG Test (Tananger, Kristiansund and Sandnessjøen)

## Engineering & Services

- Blast and Painting (Tananger)
- Engineering Services (Tananger)
- Fabrication (Tananger, Florø and Kristiansund)
- Modifications (Tananger, Florø and Kristiansund)
- Equipment Maintenance & Refurbishment (Tananger, Florø and Kristiansund)

# Chemical Services



Swire Energy Services can provide Chemical Management solutions for handling, storage, transportation and delivery of high-value chemicals and essential oilfield fluids. Through our strategically located bases in Norway we can provide Storage, Handling & Dispatch, Blending and sale of Chemicals.

We offer only the highest quality tanks and equipment to provide secure, robust, and reliable methods of chemical handling.

## Storage

- Cost-effective storage and stock management
- Bulk Storage tanks (also heated)
- Facility for inside (heated) and outside storage of goods; IBC, drums and kegs
- Accurate tank level control
- Facilities to transfer from bulk storage to blender
- Facilities to fill pack-out from bulk storage
- Systems to ensure product segregation
- Inventory management, including storage of Quality Control samples and monthly product stock level reporting

## Handling of Products for Dispatch

- Outbound order, receipt management, filtration, repacking/decanting, labelling, sampling/QC testing, goods movement, loading/transporting/transferring (to/across quayside) and to consolidation hub
- Dispatch paperwork: Dangerous goods note, MSDS, Tank certificate (if applicable), Dispatch certificate, Ship manifest, Cargo summary (if applicable)
- Labelling: All labelling requirements in accordance with current national and EU laws and regulations
- Sealing of tanks to NOG091 regulations

## Blending

- Custom blending services
- 100% cleanliness and discharge to allow aqueous & organic blending
- Batch quantities in the range from 200 kg upwards

## Filtration

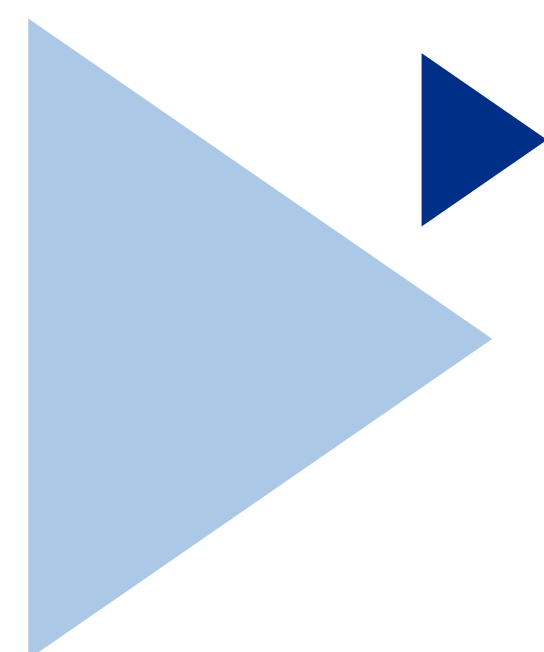
- Standard filtration
- NAS filtration and particle testing.

## Safety Advisor

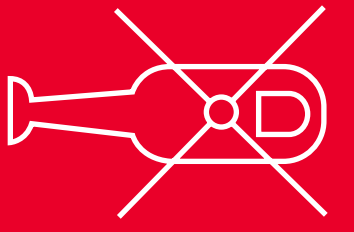
- On-site Safety Advisor to ensure industry regulations

## Chemical Sales

- A variety of commodity chemicals among them MEG, TEG, Methanol and Sodium Hypochlorite



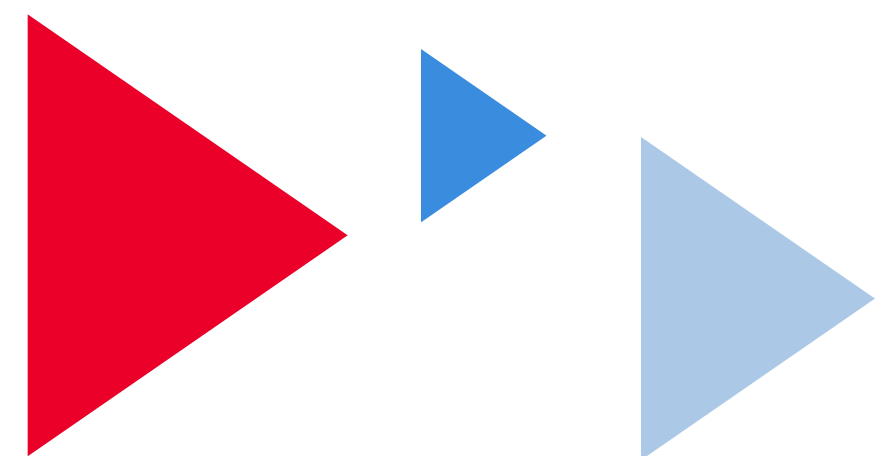
# Aviation Services



In addition to our above listed services, we also offer Aviation Services through Helifuel AS, a Swire Energy Services company based in Sveio, Norway; [www.helifuel.no/](http://www.helifuel.no/)

This includes design, engineering, manufacturing, and service of helifuel and gasoline fuelling systems for offshore operations. We also provide services above and below the offshore helideck.

We provide fuelling systems to various industries including oil & gas, maritime, military, luxury and offshore wind.



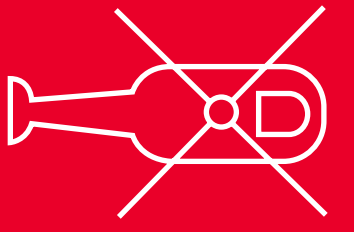
## **JET A-1 / Aviation Refuelling systems (purchase / rental)**

- The standard product portfolio incorporates modular manufacturing and assembly practices to deliver cost effective solutions to the highest quality standards
- Offer customized solutions to the highest quality standards
- Over 20 years of experience to ensure the standardized products are safe reliable, user-friendly, complying with required regulations, including Type Approval / Design Approval / Unit Certification all at a competitive price
- Dispensing units and pump units for use on offshore installations, rigs, ships, and other vessels
- Includes equipment for filtration, flow measurement, dispensing fuel and control, safety, and monitoring instrumentation
- Reference list includes leading O&G operators and NOCs, large maritime organizations, military, super-yacht and offshore wind

## **Helicopter refuelling system audit and recertification**

- Our maintenance programs are delivered to the highest standards to the latest CAA CAP 437 regulations
- Key members of our Aviation Services team are significant contributors to the following key industry standards:
  - CAA CAP 437 - Standard for Offshore helicopter landing areas OGP- Oil & Gas Aircraft management guide
  - OGP Report 323 - Fuel System Review checklist
  - OLF - Norway Oil & Gas Helideck Manual
  - Oil & Gas UK Aviation Management Guidelines
- We have a large team of helifuel engineers able to support commissioning, service, certification and maintenance requirements
- Testing and calibration facilities onboard (e.g. hoses, pressure relief valves and flow meters)

# ...continued



## JET A-1 Transportable Tanks (purchase / rental)

- Worldwide approval for offshore transport & storage of JET A-1 fuel
- Approval: United Nations (UN) – International Maritime Organization (IMO) approved for the carriage and storage of Jet A-1 fuel worldwide
- ASME VIII Div 1 and in accordance with CAA Cap 437
- Included Under Helifuel AS Type approvals from DNV and ABS and accepted by 3rd party approval agencies IMDG, ADR/RID, DNV 2.7-1, EN 12079
- Tank Type: IMDG T4, DNV 2.7-1, EN12079 vertical bolted tank in rectangular frame

## Tank recertification services

- 5-year period inspection & 2.5-year periodic inspection services can be conducted on/offshore witnessed by recognised certifying agencies

## Spare part sales

- Stock of spares required for helicopter refuelling systems are held at key locations. This ensures a quick delivery time and availability for filter elements, parts, and other key components
- Stock of firefighting and helideck equipment
- Offshore testing of sacrificial marine helideck perimeter safety netting

## Training

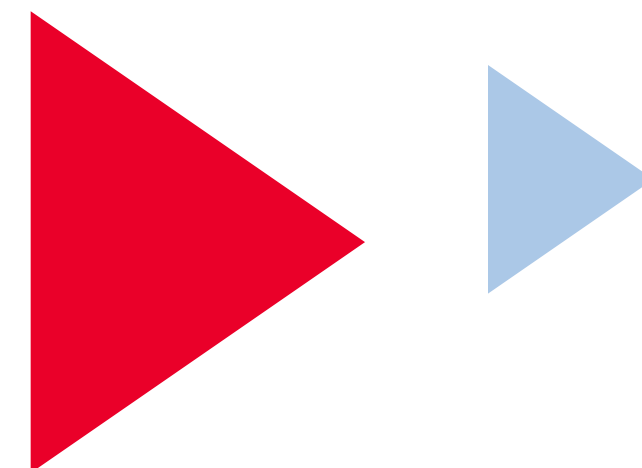
- Quality control and fuel management relating to offshore helicopter refuelling operations
- Training is designed to maximise understanding of helicopter refuelling both on and offshore Swire Energy Services' team of experienced trainers can bring operational understanding in an interactive environment

## Helideck friction testing

- Conducted to satisfy the latest CAA CAP437 regulations
- Provided to O&G, offshore wind farm installations, FPSO vessels, military vessels and commercial yachts
- Swire Energy Services' engineers are fully trained and certified in the use of the UKCAA's preferred "Braked Wheel"
- A full analysis and certification of the helideck is provided on completion of test, with recommendations if needed

## Helideck Audit

- Our auditors will actively engage with the leadership team both onshore and offshore to ensure the aviation facilities are maintained and operated to the highest standards
- Audit to confirm facilities and vessels meet regulatory standards such as CAP 437, ICAO Annex 14 Vol II, Heliports, National Regulations and Company Guidelines
- Scope includes the operating environment, emergency response, team training and competence, this includes evaluating crews as well as command and control in normal and emergency situations





# Key Personnel SES Mongstad Base.

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