Product Definition

From discovery to commercial production, time is the key to achieving top financial performance. To ensure rapid production of your new oil and gas finds, Frames has developed Early Production Facilities (EPFs), combining our family of Frames technologies and solutions with Frames specifications and a modular approach.

Our Early Production Facilities combine our proven Frames technologies and leading technical solutions to deliver high performance production facilities where and when you need them. As a result, you benefit from flexible modular designs, extensive in-house experience, efficient transportation options and a global supply chain for rapid commercialization of your oil and gas discoveries.

Solution Description

At Frames, we are committed to the rapid delivery and implementation of production methods that give our clients the competitive edge.

Our family of EPFs is designed to meet requirements of oil and gas fields. We offer separate solutions for oil or gas production facilities, or a combined facility that will efficiently handle both oil and gas using a single communication, command and management module.

Frames EPFs can be delivered in a fast turnkey operation with transparent deliverables including well site equipment, utilities, control rooms, civil works, plant commissioning and long-term operation. Once on site, our team will be working with our global network of local partners to complete all site activities, and bring the facility into safe production as quickly as possible.

Combined oil and gas facilities

To advance production at a combined oil and gas site, we focus on a phased implementation to quickly bring oil production online. While the oil-handling facilities are being built, commissioned and started-up, the Gas Processing Facility is simultaneously designed, procured and built, due to complexity and longer lead time.

As soon as the gas facilities are ready, our Frames team will integrate the gas facility into the operating oil facility to bring the complete site into full production. Our sharp thinking, modular construction techniques and smooth interface design make site commissioning fast and simple, and give you years of trouble-free operation.
Early Production Facilities (EPFs)

Process Description

Oil and gas processing facility scheme
Early Production Facilities (EPFs)

Project Management

We understand that effective project management requires the precise coordination of a wide range of tasks, and by working together as a family of professionals we are committed to delivering the best outcomes for our clients.

At Frames, we work as a coordinated team that focuses on integrated solutions such as Total Plant Solutions, Modules and EPF Projects. We strongly believe that our product know-how translates into added value for the management of these complex projects. Our multi-disciplinary engineering teams are managed by a project manager who is the single point of contact for our clients.

With decades of experience in working on projects of all sizes, Frames has learned to execute its projects according to the highest safety standards. Having overall process knowledge, project execution and interface management experience, Frames offers complete package deals.

Thanks to a network of international partners and a worldwide supply chain, our clients benefit from smart services provided by a strong, global project management company.

Technical Details

- Full, on-site oil treatment
- Modular gas producing facilities that can be integrated into producing oil facilities
- Fast commissioning for advanced cash flow
- Modular build techniques for plug-and-play operation
- Full compliance with international safety and environmental standards
- Wide material selection (NACE compliance for sour service)
- Simple commissioning and years of trouble-free operation

Added Value Frames

- Fast production with our full design, delivery and commissioning service
- Combined oil and gas facility to maximize site revenue
- Proven processes and cutting-edge technical designs
- Modular construction techniques for fast transportation and easy onsite assembly
- High-quality oil and gas production with options to seamlessly extend the EPF to a central processing facility (see Total Plant Solutions)

References

- NAM Middelie, the Netherlands
- Tulip Oil, the Netherlands

Contact

+31 172 504 800
integratedsolutions@frames-group.com
Frames Family Tree

Onshore

- Frames Oil & Water
  - Multiphase Separation
    - Production Separators (High & Low Pressure)
    - Test Separator
    - Degaser & Knock-Out Drum
    - Water Oil Separator (WOGEP)
    - Compact Inline Separation
  - Electrostatic Coalescers
    - Dehydrator
    - Desalter
  - Produced Water Treatment
    - Deoiling & Desanding Hydrocyclones
    - Gas Floation
    - Media Filtration
    - Sand Cleaning
  - Separation Internals
  - Heat Exchangers

- Frames Gas
  - Gas Separation
    - Demisting
    - Scrubbers
    - Filters
  - Heat Exchangers
    - Shell & Tube Heat Exchangers
  - Air-Cooled Coolers
  - Gas Sweetening \( (H_2S & CO_2) \)
    - Amines
    - Thiopaq
    - Solid Bed Scavenger
    - Membrane
    - Molecular Sieve
  - Gas Dehydration
    - Glycol (TEG)
    - Molecular Sieve
  - Dew Point Control
    - Low Temperature Separation (LTS)
    - Solid Desiccant
  - Hydrate Inhibition
    - MEG/DEG Recovery
    - Methanol Recovery
    - MEG/DEG Desalination
  - Light Hydrocarbon Recovery
    - Condensate Stabilization
    - Fractionation
  - Fuel Gas Treatment

Offshore

- Frames Flow Control & Safeguarding
  - Hydraulic Systems
    - Wellhead Control
    - Subsea Hydraulic Power Units
    - Hydraulic Power Units
    - IWOCs (Intervention Workover Control Systems)
    - TUTU (Topside Umbilical Termination Unit)
    - Cargo Ballasting Systems
  - Safety Instrumented Systems
    - High Integrity Protection Systems (HIPS)
  - Chemical Injection
    - Chemical & Methanol Injection Systems
    - Chemical Distribution Systems
  - Valve Automation Center
    - Actuators and Actuated Valve Packages
    - Control Systems
  - Automation
    - Buoy Control
    - Tank Farm Control & Safeguarding

Floaters

- Frames Integrated Solutions
  - Total Plant Solutions
  - Industrial CO₂ Modules
  - Early Production Facilities
  - Wellsite Packages
  - Biogas

Frames
Integrated Solutions
Dr. A.D. Sacharovlaan 2
2405 WB Alphen aan den Rijn
The Netherlands

+31 172 504 800
integratedsolutions@frames-group.com
frames-group.com