

STAVANGER • CAPE TOWN

Higher well production. Lower environmental cost.

Nordic expertise. African execution.

Nordic excellence in Africa

Saga represent a group of Norwegian energy technology and equipment companies. For an operator that means the availability for Norwegian high-end technology and services, qualified in the North Sea, delivered in-country to local content requirements, through a single accountable counterparty.

01 INCREASE OIL & GAS RECOVERY

Multilateral stimulation for mature carbonate, fractured and sandstone reservoirs. Installed inside the existing well in about a week, with no new drilling. A reference well went from an expected 250 to 2,600 barrels a day.

03 SEABED INTERVENTION

Marine and installation engineering, subsea spool design including fabrication and installation, seabed preparation and rectification, pipeline- riser and umbilical installation, subsea structures and X-mas tree installation and tie-ins

05 IMR, TESTING AND COMMISSIONING

Technical information on engineering-calculations and offshore procedures for marine installation- inspection and replacement methodologies, applicable standards, mechanical completion, inspection, testing, and cleaning as well as pre- and final commissioning services, execution of subsea construction and intervention work including remote and diving services.

02 FIELD DEVELOPMENT, LATE LIFE, DECOM AND P&A

Comprises technical and operational aspects, project and regulatory information associated with asset lifecycle, covering field development, Front-End Engineering Design (FEED), Final Investment Decision (FID), late-life asset management, decommissioning planning and execution, wells Plugging & Abandonment (P&A).

04 TOPSIDE EQUIPMENT, WELL ACCESS AND SAFETY ADVICE

Riser handling system, casing landing assembly, rig interface systems, topside tension systems, well safe systems, umbilical and riser deployment systems, ridged pipe and riser systems, coil tubing, mud systems, BOP, X-mas tree services, gas recovery and flare systems.

06 IN-COUNTRY DELIVERY

Entity registration and certification, crew and crew change, customs and importation, port and logistics, personnel mobilisation and legal counsel through local contracted partners.

Four things, held together

Saga with its African Network works with operators and operators partners, NOCs, sub-contractors, local stakeholders, port authorities, government regulators and ministries.

COMMERCIAL REPRESENTATION

Saga has agency mandates for non-competing Nordic technical competence, services and technology across African markets.

ORIGINATION AND ACCESS

Early sight of projects before they reach the market, and access to national oil companies, ministries, regulators and operators.

IN-COUNTRY EXECUTION

Local partners for local content, entity registration, customs and importation, port and logistics, personnel mobilisation and legal counsel.

INTELLIGENCE

A proprietary signal platform covering African energy markets, updated daily.

SAFETY

Saga's principals operate under the Norwegian HSE regime and bring long, documented offshore safety records. Crews mobilise with their own procedures, competence records and equipment certification.

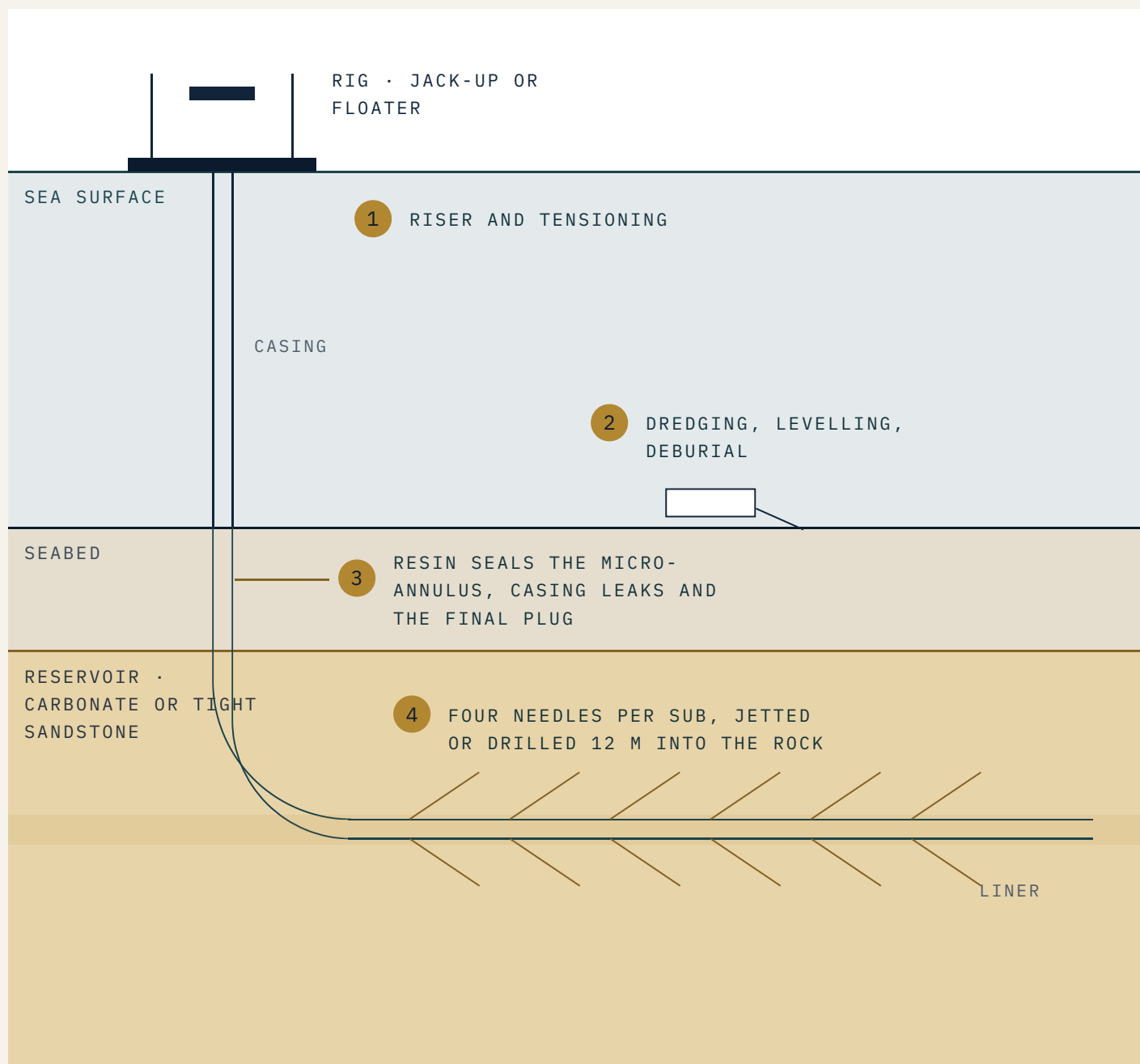
ENVIRONMENT

Much of the portfolio lowers environmental exposure by design, and internationally it is recognised that all activities in oil and gas activities should involve a responsibility for carrying out work in a manner that prevents pollution, reduces environmental impact and protects the environment. Environmental risks shall be considered during planning, execution, modification and decommissioning of activities.

The portfolio, explained

One well, four segments. What each technology does to the rock, the steel or the seabed.

Where each principal touches the well



1 TOPSIDE AND WELL ACCESS

2 MARINE AND SUBSEA

3 INTEGRITY

4 RESERVOIR

EVERY PRODUCT AND SERVICE IN THESE FOUR SEGMENTS IS LISTED OPPOSITE

Products and services

FOUR SEGMENTS · TWENTY-TWO LINES

SAGA ADVISORY · PORTFOLIO CHART

1 Topside and well access

WELL ACCESS EQUIPMENT

Subsea HP drilling riser

Surface HP riser

Riser tensioning system

Weak link

Passive heave arrestor

Landing strings

Workover riser · hydraulic minireels

Plugs · double block and bleed

3 Integrity

WELL INTEGRITY

Micro-annulus sealing

Casing leak repair

Sustained casing pressure · SCP

P&A and decommissioning

2 Marine and subsea operations

LEADING SUBSEA OPERATIONS SINCE 1985

Subsea engineering · field layout

Riser, pipeline and umbilical installation

Subsea construction

Seabed preparation

FPSO mooring

Inspection, maintenance and repair · IMR

4 Reservoir

MULTILATERAL WELL STIMULATION

Well intervention and increased oil and gas recovery · greenfield and brownfield

Alternative to fracking · environmentally friendly solution

Well stimulation in hard rock and sandstone formations

Geothermal solutions



04 • TECHNOLOGY • CASE STUDY: WELL PRODUCTIVITY BY FISHBONES

Leading technology for increased oil and gas recovery

PRODUCTION-INCREASE SERVICES FOR MATURE AND DECLINING FIELDS

An environmental friendly method for multilateral well-stimulation technology for brown- and green field. It drills a series of small lateral needles directly out from an existing wellbore, reaching up to twelve metres into the surrounding reservoir. In fractured or carbonate reservoirs the needles are jetted; in sandstone or basement rock they are drilled mechanically. Because installation happens inside an existing well, it typically takes about a week and requires no new drilling.

REFERENCE WELL • MIDDLE EAST

20

STIMULATION SUBS

80

NEEDLES

4,085 ft

HORIZONTAL SECTION

2,600

BARRELS A DAY,
AGAINST AN EXPECTED
250

Production increased to 2,600 barrels a day, against an expected 250 barrels a day — stable for more than two years without artificial lift.

WHERE IT STANDS

Installed on five continents, including geothermal applications. Saga holds an exclusive representation agreement for this technology across Sub-Saharan Africa.

HOW IT IS INSTALLED

- 01 Run inside the existing completion — no new well.
- 02 Needles jetted or drilled out through the sub, four per sub.
- 03 About a week on the well, then back on production.

An in-country network, region by region

WEST AFRICA

Senegal · Mauritania ·
Guinea · Sierra Leone
· Liberia · Côte d'Ivoire
· Ghana · Benin ·
Nigeria

CENTRAL AFRICA

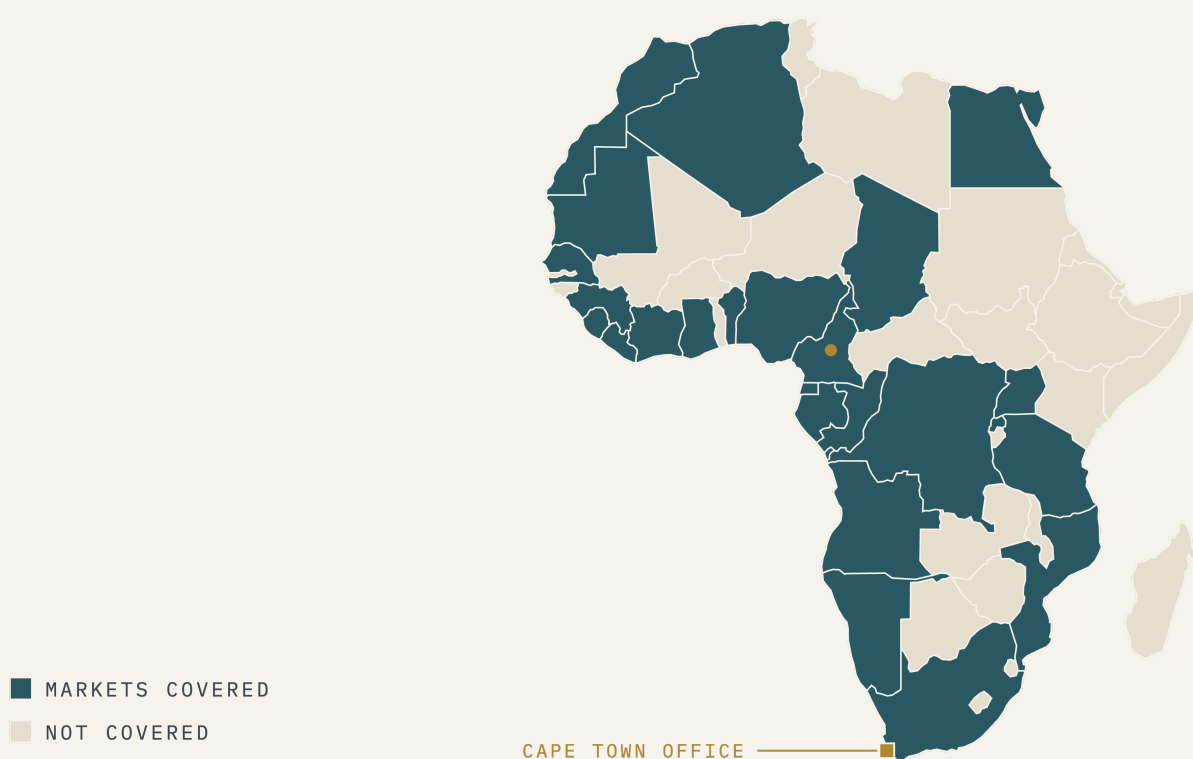
Cameroon · Gabon ·
Equatorial Guinea ·
Chad · Republic of
Congo · Democratic
Republic of Congo

SOUTHERN AFRICA

Angola · Namibia ·
South Africa ·
Mozambique

EAST AND NORTH AFRICA

Algeria · Morocco ·
Egypt · Uganda ·
Rwanda · Tanzania



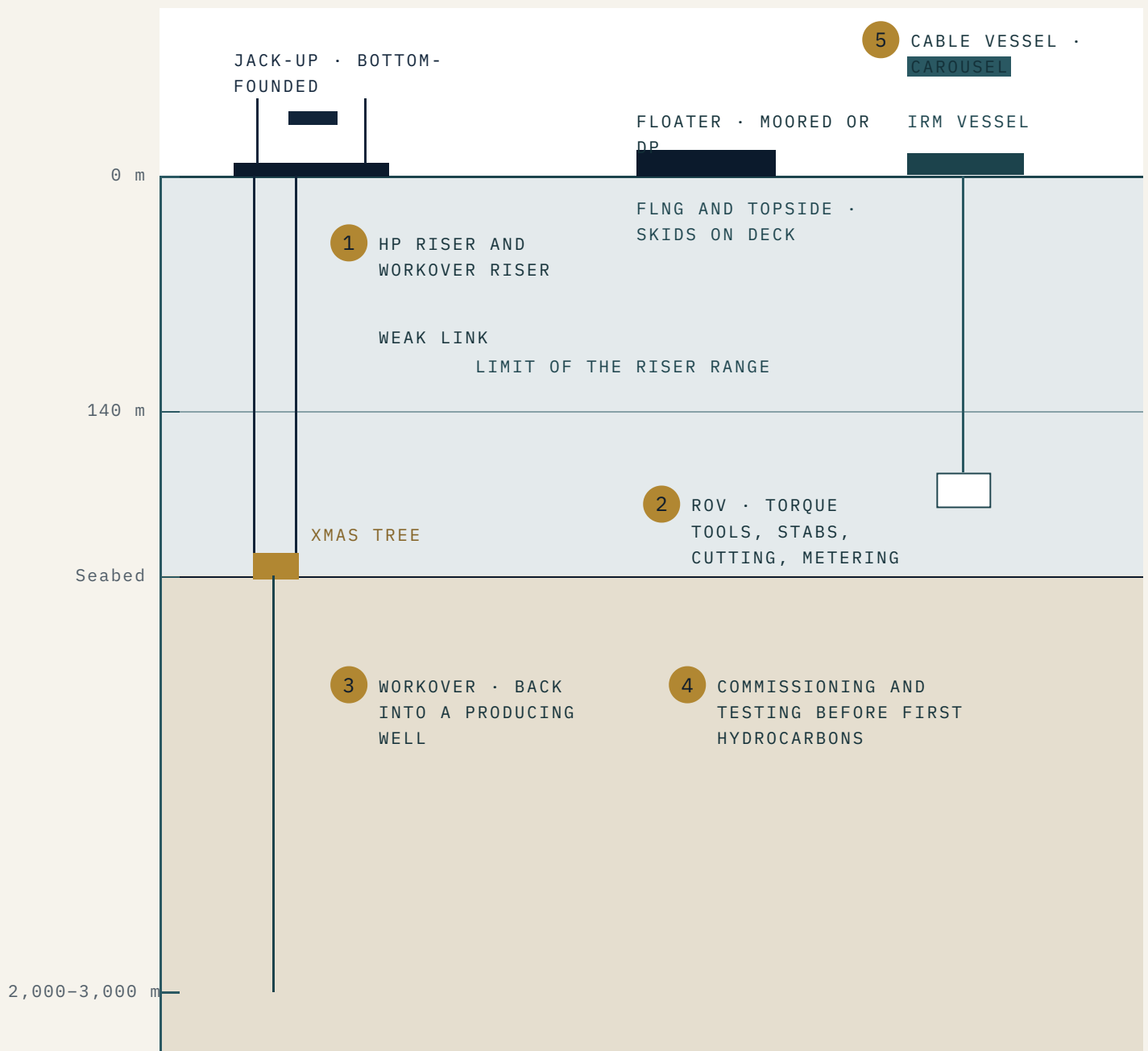
Coverage runs through contracted in-country partners, embassy and institutional relationships, and direct operator contact. Partners are selected for regulatory standing and local content qualification, not for introductions alone.

Offices in Stavanger and Cape Town, with in-country partners in Angola, Nigeria, Senegal, Cameroon, Ivory Coast, Namibia and Mozambique. Where Saga does not hold a partner in a market, we work with our extended network.

Equipment and technology from Saga Partners

Sectors from the rig floor to the reservoir. Rented into the campaign, with crews where they are needed.

Where the equipment works



1 DRILLING AND COMPLETION

2 SEABED IRM

3 WORKOVER

4 COMMISSIONING

5 CABLE LAYING

Leading technology for sale and rental

1 Drilling and completion

FROM RIG FLOOR DOWN TO THE WELLHEAD · 6 LINES

Subsea HP drilling riser

Surface HP riser

Tensioning system

Weak link

Passive heave arrestor

Landing strings

2 Seabed: IRM and intervention

EVERYTHING DONE BY AN ROV, NOT BY A RIG · 8 LINES

Subsea torque tool · API 17H

Hot stab · API 17D

Valve stab

Inductive connector

Subsea Ethernet kit

Flow metering · baskets

Subsea cutting

Umbilical deployment

3 Workover

BACK INTO A WELL THAT IS ALREADY PRODUCING · 3 LINES

Workover riser

Hydraulic minireels

Plugs · double block and bleed

4 Commissioning and testing

BEFORE THE PLANT IS ALLOWED HYDROCARBONS · 8 LINES

Flushing and circulation

Nitrogen services

Pressure testing

Bolt tensioning

Mechanical services

Drying and air

Pipeline services

Instrument rental

5 Cable laying

SEPARATE SECTOR, SEPARATE CLIENT LIST · 3 LINES

Cable carousel

Cable handling

Crew



07 • WHERE WE ARE GOING

Norway's oil and gas expertise, applied to Africa's next chapter

Norway is one of Europe's largest oil & gas producers and exporters, and Norwegian companies have built deep expertise across the full hydrocarbon chain — from the wellhead to the offtake vessel.

EXAMPLE OF GAS CHAIN FOR AFRICA

FIELD TO MARKET



As African energy mixes shift further toward gas, Saga is actively extending its network into this part of the chain.

FLNG lets a gas field reach market without building an onshore plant, which suits stranded and associated gas across the region. Formal partner relationships in floating gas infrastructure are in development.

Working with Saga Advisory

- 1 Our local partners identify opportunities with the need for product and services delivered by partners of Saga
- 2 Saga Advisory works closely with our local partners, the customer and the Norwegian technology and service companies to create the best solution
- 3 Norwegian technology and service companies deliver the complete solution. Our local partners assist with logistics and local content compliance

Innovative solution and Norwegian integrity

WHO YOU DEAL WITH

Bjørn Kahrs

PARTNER

Forty-nine years in the oil&gas sector onshore and offshore. MsC/MBA, 3 years as diver, 4 years as CEO at Bergen Academy, 3 years with Statoil (Equinor). 20 years with Subsea7 as project Director, 3 years as CEO Randaberg Industries, 4 years as Mayor at Randaberg Municipality (outside Stavanger), 4 years with DeepOcean as BD Mng, and 6 years as Director at Norwegian Energy Partners (NORWEP) responsible for Africa and UK

Trond Kostveit

PARTNER

35 years across Africa's energy and industrial sectors: twelve running cement plants in West and Central Africa, two periods with Aker Solutions — including Country Manager in Congo-Brazzaville delivering subsea equipment to TotalEnergies on the Moho field — and, most recently, Africa Director for the Norwegian Seafood Council.

Geir Tellefsen

PARTNER

Business development background, resident in Cape Town, 30 years of entrepreneurship with several technology ventures, acquisitions and divestments behind him in a number of industries, always leading with tech. Honorary Consul of Norway for the Western and Northern Cape, and previously Consul for Sweden.





Nordic expertise.
African execution.

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