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# **20 Years Of Subsea Boosting Technology Development**

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# Read Book 20 Years Of Subsea Boosting

## **20 Years Of Subsea Boosting**

Multiphase subsea boosting technology has been around for some 20+ years and has proven itself on a number of projects, including in deepwater. It offers the capability to help increase production, reduce topsides facilities and enable late-life production and low pressure or deepwater

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field production.

**It's all about the  
boost - Offshore  
Engineer Magazine**

Figure Europe Subsea  
Boosting Systems  
Market Forecast and  
CAGR 2020-2025  
(Million USD) Figure  
Europe Subsea  
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## **Global Subsea Boosting Systems Market Research Report 2020 ...**

Generating subsea  
boosting improves cost  
efficiency In theory, an  
unlimited number of  
stages can be stacked,  
and hence the pump  
power can be tailored

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to the specific need of  
the field, including  
ultra-high boost.

## **Subsea Boosting | Baker Hughes, a GE Company**

The number of existing  
and proposed subsea  
boosting and  
processing projects has  
increased over the last  
few years. The majority  
of these units were  
awarded prior to the  
recent decline in  
offshore activity

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caused by the global economic downturn, pressures on the supply chain, and oil price volatility.

### **Subsea boosting and processing developments | Offshore**

(Photo: André Osmundsen) The subsea field Vigdis has been producing oil through the Snorre field for more than 20 years. Field production



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will now be boosted by almost 11 million barrels. Equinor and its partners have decided to invest some NOK 1.4 billion in Vigdis boosting station, expected come online in the first quarter of 2021.

### **Boosting Vigdis - equinor.com**

- Subsea boosting have been in use for 20 years
- Played an important role in

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development of subsea  
processing projects •

Are playing an  
increasingly important  
role in the

improvement of  
recovery rates and  
profitability. • But in

most cases the system  
is Big, Heavy and  
Costly To reduce

subsea development  
cost The opportunity  
for Subsea Boosting to

become a standard in  
the industry is right

now

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## **Rethinking Subsea Boosting for Optimized Subsea Field ...**

Global Subsea Boosting Systems Market was valued at US\$1.34 billion in 2014 and is projected to reach US\$3.07 billion by 2023 at a CAGR of 9.7% from 2015 to 2023

## **Subsea Boosting Systems Market -**

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**Global Industry  
Analysis ...**

win-screw multiphase pumps have now been in service for over 20 years, primarily in offshore topside and onshore applications, with installations all over the world. The primary objectives, such as reducing facility costs, boosting low pressure wells, reducing flaring and venting, and acting as a flow assurance tool,

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have all been met.

## **Improving subsea pumping - LEISTRITZ**

The first subsea  
boosting pumps were  
400 kW and installed at  
modest water depths.  
Since then, the  
boosting capabilities  
have increased  
regarding power,  
design pressure,  
differential pressure  
and throughput. Their  
unique design is highly  
sand tolerant and

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handles a wide range of GVF.

## Development

### **Changing The Subsea Boosting Application Landscape | Hart ...**

The powerful pumps convey production through two 20-km (12.5-mile) tie-backs and the risers to the topside processing system on the FPU. Booster systems installed and commissioned. The

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subsea boosting systems were installed and tested in 2014, and Jack/St. Malo's first oil was produced in December of that year.

### **Subsea Boosting Systems Continue to Jack/St. Malo's ...**

Home; The Subsea System. Two related technologies make the subsea portion of the Perdido project viable: the subsea boosting system, and a surface

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Boosting  
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Development  
blowout preventer for  
drilling and completing  
the ...

## **The Subsea System | Oil & Gas Journal**

Subsea boosting increases the flowrate of the oil or gas to the surface by reducing the back pressure on the well, and therefore increases the recovery factor of the reservoir. For oil, pumping can be used, while natural gases are boosted by



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Boosting  
compression.

Technology  
Development  
**Subsea Processing  
Boosting And Gas  
Compression**

Transparency Market Research (TMR), in one of its reports, predicts that the global subsea boosting systems market would grow at a stellar starry CAGR of 9.7% over the period between 2015 and 2023. Furthermore, the global subsea boosting systems market is

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expected to touch a value of US\$3.07 bn by 2023.

## **Subsea Boosting Systems Market to Grow as Mining ...**

This illustration shows the Machar Field layout. [20,857 bytes]  
A contract has been signed for the delivery of two multiphase subsea booster pump units (SMUBS) for BP's Eastern Trough Area Project (ETAP) in the

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UK sector of the North Sea. The Framo Engineering pumps will boost the unprocessed production from the Machar Field through a 35.2-km pipeline to the Marnock Central Processing Facility ...

**Subsea booster pumps experience, confidence developing ...**

The subsea boosting solution developed by the companies

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Boosting Technology Development combines pumps with subsea systems and permanent magnet motor (PMM) technologies. The first result of this collaboration is a helico-axial pump that is powered by a 3.2-megawatt PMM, capable of withstanding pressures up to 5,000 psi (345 bar).

**Boosting in Subsea  
Fields | Upstream**

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### Boosting

#### **Pumping**

Subsea boosting is rapidly advancing technique where a robust approach fulfills a certain arrangement and execution. Such approaches demonstrate the adaptability of regulatory bodies & offer alternatives for recoveries even in extreme difficulties to reach reserves. Subsea boosting notably gives points of interest over

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Boosting  
Technology  
Development  
customized innovative  
models.

## **Subsea Boosting System Market Size | Industry Report, 2019 ...**

This paper aims to give an overview of the systems developed and applied in Petrobras prospects during the last twenty years, such as the Vertical Annular Separation and Pumping System (VASPS), Boosting

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Systems with Electrical  
Submersible Pumps  
(Mudline ESP and  
MOBO), Subsea  
Development  
Multiphase Pumps,  
Subsea Raw Water  
Injection and Subsea  
Oil-Water Separation  
(SSAO).

**Subsea Processing  
and Boosting in  
Brazil: Status and ...**

Subsea processing  
could increase field  
reserves from 20  
percent to 30 percent.

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In the next 20 years, market growth will average 14 percent annually with four main applications for subsea processing: Boosting - increasing oil recovery through full well stream boosting

### **Subsea Technologies at the Heart of Tomorrow's Oil & Gas ...**

Share: Technavio has been monitoring the subsea production



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systems market and it is poised to grow by USD 1 bn during 2020-2024, progressing at a CAGR of almost 3% during the forecast period. The...

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