AMPLUS Fast Facts

Established 2008
Highly experienced management team
Deep understanding of field development life cycle
Innovative new production solutions to access previously uneconomic or stranded reserves
New Versatile Production Unit (VPU) evolved from existing proven Floating Production Storage & Offloading vessel (FPSO) technology combined with dynamic positioning
Management Team

Ian Herd
Managing Director
ian.herd@amplus-energy.com

In 2008 I co-founded AMPLUS. Prior to this I was the Managing Director of Integrated Subsea Services Limited (ISS), which I co-founded in 2002. Between 1998 and 2002 I worked for DSND, first as Operations Director and then as Managing Director. Previously, I was with Subsea Offshore Limited for 17 years, where I worked my way up through the organisation in a variety of roles. Having spent 30 years in the international oil and gas industry, I can help give AMPLUS and our clients a unique strategic advantage due to my expertise and experience in the subsea services market.

Stewart Risk
Technical & Safety Director
stewart.risk@amplus-energy.com

I’ve been a director of AMPLUS since it was founded in 2008, and in my current role as Technical & Safety Director, it’s my responsibility to ensure that the assets being developed are fit for purpose. I’ve worked as a consultant and advisor with companies including Shell and with Helix Well Ops on vessel compliance assurance. I was also Vice President of Subsea 7 and President and Managing Director of Subsea Offshore and DSND Subsea Limited. With nearly 40 years experience in the industry, I’ve gained the knowledge, experience and expertise to ensure we provide safe, reliable and compliant operations.
Norman Wood
Financial Director
norman.wood@amplus-energy.com

A founding shareholder of AMPLUS, I was also responsible for Finance, Tax and IT for major upstream subsidiaries of TOTAL in the UK, Colombia and Norway for almost 30 years. I also served as Interim CFO of Ithaca Energy for a significant period of its development.

Nigel Cheshire
Health, Safety, Environment & Compliance Manager
nigel.cheshire@amplus-energy.com

I’ve worked in the oil and gas HSE sector as an advisor and manager since 2005. As a senior HSE Advisor, I’ve worked with service companies and operators worldwide, and advised UK authorities on safety case development. Previously, I worked in a diverse range of sectors including Telecoms, Construction and Financial.
Mission
To turn uneconomic oil and gas resources into positive reserves by providing innovative and cost-effective solutions.

Vision
To build a world-class fleet of VPUs to serve the needs of the oil and gas industry worldwide.
Safety
Safe, reliable and compliant operations that do not cause harm to people, the environment or assets.

Integrity
Trusted knowledge, experience and expertise, ensuring we deliver on our promises.

Versatility
The ability to adapt to situations and meet the changing needs of our clients.

Innovation
Creative, progressive solutions evolved from proven technology.

Reliability
Delivery of projects on schedule, within budget and without risk to people, the environment or assets.

“The safety of a vessel and her crew is the sole and inescapable responsibility of the owner, or owner’s representative, the captain.”

John Paul Jones (1775)
North Sea Economics

“The North Sea oil and gas market may be relatively mature, but it remains an exciting prospect.”

Ian Herd, Managing Director
Larger number of smaller operators developing fields with less available capital

Global players also have less capital available and are looking to maximise their return on investment

Versatile Production Unit that reduces front end and tail end capital requirements

De-risks both small and large projects by providing early production

Ability to leave a production tree and return

Minimises seabed infrastructure which is costly, challenging to install and expensive to remove

High-value production component assists in self-funding project development

Contracting strategy reduces major up-front financial commitments to production facilities on “risky” reserves that may not produce as predicted long-term

Provides financial community with due diligence tool to evaluate reserves prior to sanction of full field development capital

Early revenue stream for clients
AMPLUS Versatile Production Unit (VPU)

Dimensions
Length: 153 metres
Breadth: 29 metres
Depth: 18 metres

Cranage:
1 x 30t active heave compensated subsea rated crane
1 x 10t crane

Storage capacity: 112,000 barrels
Production capacity: 3,000 – 20,000 BPD

Accommodation & facilities for 65 personnel
Deep-water capability

Power & Propulsion:
5 x Diesel alternator
1 x turbo alternator
6 x 2.5 MW Azimuth thrusters

Transit speed: 10 – 15 knots

Positioning:
Class 3 DP

Deck & Equipment:
Derrick & handling system for rigid riser
Large moon pool for riser deployment
22 metre CAP 437 helideck (S92)
Versatile Production Unit is an evolution of proven FPSO, Rigid Riser Tower, Flexible Turret Buoy and DP technology. Suitable for harsh and deep water environments.

Newbuild technology ensures increased efficiency.

Process system can be readily adjusted to suit customer requirements.

Class 3 DP maximises station keeping and reliability.

Flexibility to produce and allow access for drilling development wells without mooring clashes.

Ability to export gas through turret buoy if required by client.

Subsea system designed for routine connect/disconnect.

Suitable for harsh and deep water environments.

Riser system can be configured for either flexible or rigid risers.

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AMPLUS VPU Concept

Our team took existing technology and set about adapting and evolving it, resulting in a vessel uniquely capable of developing marginal fields and recovering stranded oil reserves.

The double-skinned new-build VPU is designed to be as efficient as possible, while satisfying new maritime legislation. Class 3 DP technology ensures maximum station-keeping, safety, integrity and reliability. The vessel is suitable for both deep-water and harsh environments and can be mobilised worldwide.

The VPU has an independently-installed processing system designed to allow modifications in response to specific client needs. A specially-designed rigid or flexible riser system allows easy deployment at low cost.

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Maximum production time is achieved through a specially designed rigid riser system which uses a high angle disconnect unit. This allows self-deployment and easy well connection/disconnection.

The patent pending Versa-Hub™ subsea connection system provides a unique mechanism for rapid connection and disconnection, riser foundation and the receiving and distribution manifold system. This provides significant advances in design and functionality over existing systems, and the ability to easily incorporate additional service lines for power, signal and fluids.

Rigid Riser System

This system has major advantages over conventional turrets: in extreme conditions it is possible to undertake a planned or emergency disconnect, which can be achieved in under 30 seconds thereby protecting the subsea infrastructure. If major system modifications are required during the life of the field it is simple to disconnect from the subsea facilities and bring the vessel to harbour to conduct modification under controlled conditions with full onshore support. This provides significant savings in areas including: offshore personnel, as well as fees for a helicopter and supply vessel; all maintenance can be carried out without costly IRM programmes.

The turret is designed to accommodate 6x6 inch production risers and 3 control umbilicals. The VPU is designed to lift the flexible risers and control umbilicals from a pre-agreed laydown area on the seabed. The vessel retracts the flexible risers and umbilicals for connection through the turret buoy, eliminating costs for a Diving Support Vessel, whilst protecting the flexible risers and umbilicals from damage.

Disconnectable Transfer System (DTS)
Unlocking Positive Energy

Whether it’s early production, marginal field development or unlocking stranded reserves, the economics and opportunities are now unlimited. There’s nothing experimental about our VPU concept – all the component technologies are proven. It’s the combination and evolution of these technologies that make our VPU revolutionary.

- Challenges traditional thinking but is not experimental
- Utilises readily available components
- Reduces requirement for subsea infrastructure
- DP removes requirement for moorings
- Simple Hook-up
- Safe, reliable and compliant operations
- Innovation without the risk

The Amplus VPU is designed to reduce risk, achieve early production, and lower both CAPEX and OPEX.