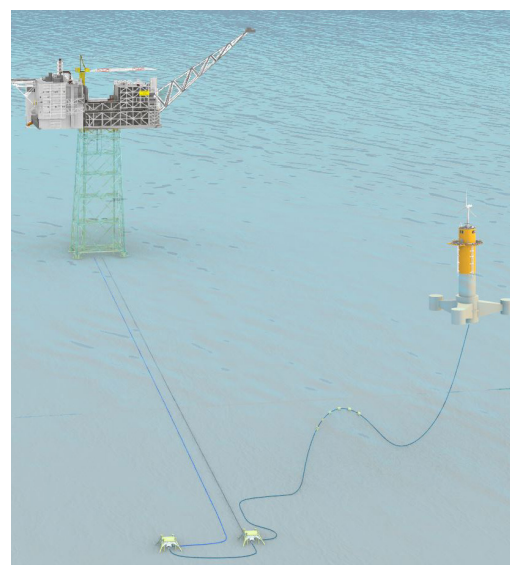


Buoy and Buoy Control Systems

Proserv is an independent controls technology company providing innovative controls solutions to the energy industry. We have over 25 years' experience in supplying telemetry controls for buoy offloading systems globally, using our established, market leading technology.

SBT Energy's control and services buoy designs allow a wide range of well, reservoir and ocean monitoring activities to be performed in a high stability automated platform, ideal for harsh weather environments such as the North Sea. Proserv and SBT Energy collaborate to bring innovative buoy and subsea tanks to address the challenges of cost-effective offshore real estate for a wide range of applications.

By combining SBT Energy's simple catenary mooring and unique stabilisation buoy design with Proserv's control systems, we can provide new, viable and efficient solutions for future developments, whilst still remaining independent.



SBT BUOY SYSTEMS	PROSERV CONTROLS
TOUGH TECHNOLOGY	
Ultra low motions, able to work in the most extreme environments (i.e. North Atlantic)	All systems suitable for hazardous area operation SIL rated 2 and 3 options
BEST IN CLASS DESIGN	
Customised for functionality, weather and storage requirements Standard catenary mooring and anchors (no concrete base)	Designed in-house and customised to customers' requirements for the safe operation of offloading product Development and full support of HMI/SCADA packages and PLC solutions
RELIABLE COMMUNICATIONS	
Clean protected internals and high mast height for communications	All industry standard communications protocols supported
A WIDE RANGE OF OPTIONS	
Maximising power generation from renewables Range of onboard energy storage options Easy installation and removal for re-use	Integration of other specialist systems such as hawser fatigue, berthing and solar power systems Global service support team available for all installation and commissioning works with 24/7 worldwide service and after-sales support

The complete buoy system and buoy controls package



Integrated control and monitoring systems for offshore loading buoys

Proserv's expertise and experience has given us a portfolio of products such as subsea production control modules, WHCPs, HPU's, and telemetry control and monitoring systems for the oil and gas market. This allows us to offer fully integrated buoy control systems using various communication methods: fibre optics, radio, satellite, Wi-Fi and any wired communication.

- Hawser load monitoring
- Process monitoring and control
- Navigation aids
- Weather monitoring
- Solar power systems
- SCADA systems
- Hydraulic controls for PLEM valves
- Portable units (tanker)
- Berthing aid
- CCTV security
- Fire and gas systems
- Project management and product lifetime support



Host your vital equipment where it is needed in a stable, climate controlled environment

Unlike previous control buoys which needed a large concrete base, SBT Energy's buoys use simple catenary moorings and unique stabilisation systems. Redeployable, rugged and scalable, we size the buoy for the task and environment, minimising CAPEX.

The functionality can be expanded to provide more onboard services such as pumping, well injection, hydrogen production or fluids conditioning. By enclosing equipment in a protected environment, our systems also enable the use of automation and robotics in an unmanned, zero emissions, minimal OPEX facility.

- Well control and monitoring
- Net zero emissions
- Fluid conditioning
- Pumping
- Injection
- Ocean monitoring
- Floating LIDAR