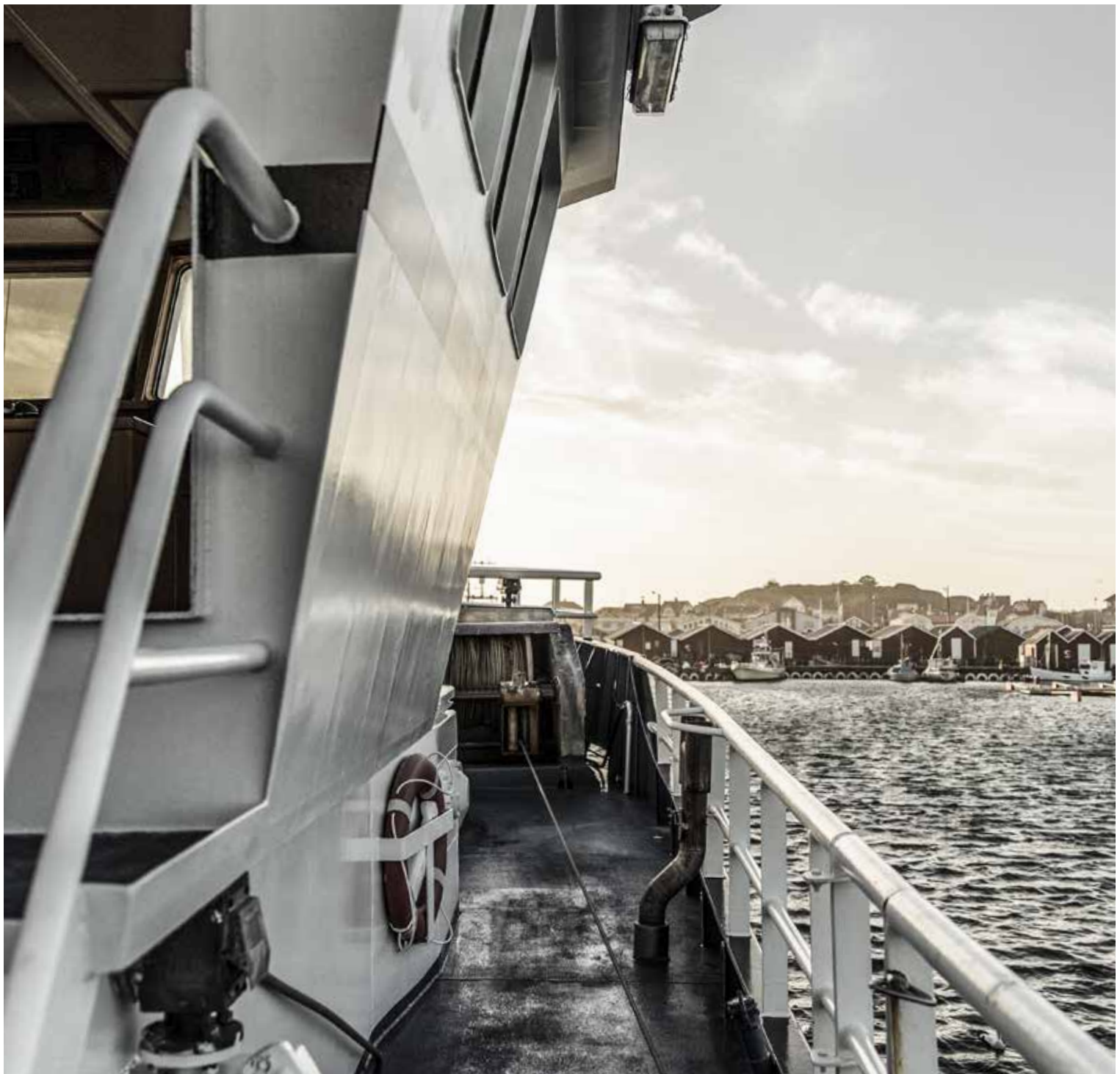


Made to move you

**VOLVO
PENTA**

HEAVY-DUTY APPLICATIONS

Diesel engines for heavy-duty propulsion, marine genset and auxiliary



A photograph of a Volvo truck on a ferry deck. The truck is white with a Volvo logo on the front. It is positioned on a wooden deck next to a yellow ferry structure. A large white cylindrical structure is on the left, and a yellow ferry cabin with the name 'LINDA' is in the background. A blue sign with white arrows and numbers '3 2 1' is visible on the right. A blue text box is overlaid on the right side of the image.

As part of the Volvo Group, we proudly uphold the Volvo heritage and benefit from the group's tremendous expertise and technology resources. Our leading-edge automotive technology, adapted for marine environments, has given us a strong position in the market.

**A VOLVO GROUP
COMPANY**

An inclusive offer to marine professionals

As a global company with a strong local presence, we offer power solutions for heavy-duty marine applications all over the world – propulsion systems, auxiliary equipment and complete marine gensets. A choice of Volvo Penta is a choice of support through the entire product lifecycle, ensuring reliable operations, maximum uptime and superior cost of ownership.

Through long-lasting cooperation with operators, designers, manufacturers and classification societies, we know your business from within. But we also know your desire to get the best out of leading-edge technology, drive an efficient operation and meet environmental demands.

Long-term partnership

Our core products are the Volvo Penta engines, but our offer to you goes far beyond that. Innovative drive systems and accessories, outstanding fuel efficiency and reliability, and a global service dealer network bring about a partnership for performance and productivity in the long term.

Sustainable development

Economic growth and environmentally sustainable development are the major challenges of our time. Each year, Volvo Penta devotes numerous resources to developing products that meet our customers' demands for reliable high performance, as well as minimal environmental impact. Being environmentally aware – and acting accordingly – is not only a matter of conscience. Today, it's a competitive edge and, more often, also a legal demand. We will continue to work in close cooperation with our partners and customers and remain at the forefront of technological and environmental development – today and tomorrow.

POWER SOLUTIONS FOR PRODUCTIVITY

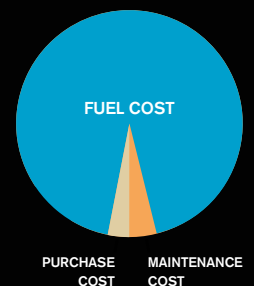
The Volvo Penta heavy-duty range has been developed for extreme reliability. These marine diesels are designed to keep running, year in and year out. Engineered for the toughest conditions, they combine high uptime and high fuel efficiency with low total cost of ownership and ease of installation, operation, and maintenance.





KEEPING UPTIME HIGH – AND TOTAL COST OF OWNERSHIP LOW

ENGINE LIFETIME
COST OF OWNERSHIP



Designed for reliability

Proven technologies means reliability. Volvo Penta heavy-duty marine commercial equipment is tried and tested in demanding conditions all over the world – for more than a hundred years. And with a commitment to meet future emission standards.

When it comes to propulsion in marine commercial applications, the key to a profitable operation is minimizing cost and maximizing engine uptime. Our robust Volvo Penta engines are renowned for their high performance and reliability. This makes them perfect for demanding marine propulsion applications – and provides the best conditions for maximal uptime.

Predictability

Predictability increases uptime. Volvo Penta service agreements can be tailored to your operating needs and budget to include

anything from regular inspections to a comprehensive service and maintenance program that includes preventive repairs. The service agreement is between you and your Volvo Penta dealer, and helps you maximize uptime, lower total cost of ownership and improve cost control.

Fuel efficiency

Fuel consumption accounts for the largest portion of your total operational cost. That is one reason why marine operators all over the world have selected the extremely fuel-efficient Volvo Penta power systems.

Ensuring your business is running at full capacity

Maximum uptime always starts with premium product quality. Well-designed, robust, high-performance engines and drive systems. The materials, the excellence in engineering and the innovativeness. With Volvo Penta genuine service and parts, you ensure performance, longevity and optimal fuel efficiency for your installation.

Volvo Penta global service and support

- Global marine commercial dealer network
- World class parts distribution network
- Volvo Penta Action Service
- Exchange Components
- Repair & Overhaul kits
- Service Agreements
- Volvo Penta Oil Analysis
- Extended Coverage
- Quickline repowering service

Whenever, wherever – we are there to support

Global dealer network, local expertise

The Volvo Penta marine commercial dealer network covers 130 countries, with 700 authorized dealers worldwide. They comply with our marine commercial dealer operating standard, which is designed to ensure consistently high-quality service and support. This includes 24/7 accessibility, parts availability, advanced diagnostics, and technical competence to secure the local expertise necessary to keep your business going.

Find your nearest Volvo Penta dealer at volvopenta.com or download our dealer locator app.

World-class parts distribution network

As part of the Volvo Group, we benefit from one of the world's most efficient parts distribution networks in the industry – the

Volvo Group Logistics Services. Working from 17 key locations around the world, 24/7, to ensure you get the right parts at the right place at the right time.

On call 24/7/365 in 28 languages

Our global dealer network – your first line of contact – is backed up by Volvo Penta Action Service, a phone-based breakdown and support service providing assistance 24 hours a day, every day of the year.

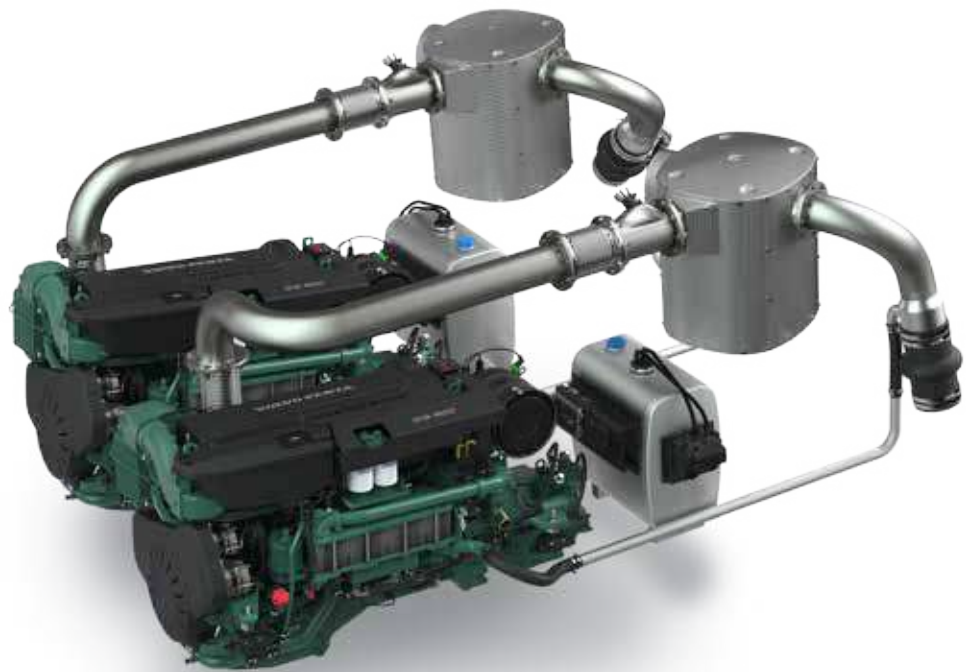
- Global support 24/7
- Support in 28 languages
- A dedicated operator stays with your case until the problem is resolved



Check out the Volvo Penta global service and support film:



D13 IMOIII INBOARD



Propulsion engines – engineered for the big challenges

State-of-the-art, reliable and extremely fuel efficient – the responsive Volvo Penta inboard diesel engines excel in drivability. Their unique marine torque and rapid acceleration, combined with class-leading power-to-weight ratio make Volvo Penta diesel inboards a superior choice for a wide variety of demanding applications.

Proven engine technology

Based on Volvo Penta's more than century-long marine engine experience, our engines have been developed, manufactured and thoroughly tested to meet the needs of demanding operators worldwide.

Unique marine torque

The unique marine torque of the Volvo Penta diesel inboards stands out among the competition by offering increased load-carrying capability, rapid acceleration and the ability to maintain a high cruising speed, regardless of load or sea state.

Class-leading fuel efficiency

One of the main benefits you experience since Volvo Penta engines are based on the Volvo Group's engine platform is their fuel efficiency. This is vitally important for your daily fuel expenses as well as for your long-time cost of ownership.

Added emission control

All Volvo Penta engines are designed to withstand high exhaust back pressure, which makes them perfect for applications that require additional exhaust aftertreatment systems.



Volvo Penta engines' main benefits

- High durability
- Fuel efficiency
- Unique marine torque
- High performance
- One company simplicity

A large red-hulled ship is being maneuvered by a tugboat in a harbor at sunset. The tugboat is pulling the larger ship, and the scene is set against a dramatic sky with clouds. In the background, there are cranes and other harbor infrastructure.

Your vessel at your fingertips

Combine your engine with a state-of-the-art control system and choose from Volvo Penta's range of smart features and equipment. The type-approved Volvo Penta Electronic Vessel Control (EVC) provides full monitoring, protection and diagnostics for both engine and transmission, whereas the Marine Commercial Control (MCC) is an open, easily integrated system for monitoring and control of the propulsion system, marine genset, and auxiliary installations – all functions in compliance with all international standards.

Gensets and Emergency sets – reliable power supply at all times

Selecting Volvo Penta marine diesel engines for your onboard electrical power generation means that you prioritize high reliability and fuel efficiency. But these engines not only meet all the performance needs from demanding operators and OEMs, they also come with a wide range of services to optimize your investment, thanks to Volvo Penta's global service dealer network.

Easy installation

Volvo Penta engines are designed for easy installation – a quality you will benefit from whether you represent a shipyard or an OEM.

Easy to service and support

Reliable operation is absolutely vital for both gensets and emergency sets. All stops – scheduled and unexpected – must be reduced to an absolute minimum. To facilitate service, Volvo Penta engines

provides easily accessible service points to reduce maintenance time and cost.

Common engine platform

The platform commonality between Volvo Penta engines – with e.g. shared service and maintenance parts – simplifies parts availability and results in shorter lead times. Thanks to the service competence of the Volvo Penta dealer network, your Volvo Penta gensets' serviceability is further enhanced.

The main benefits

- In-house production
- High reliability
- Increased uptime
- Fully classified
- Easy installation





Unique technical features

High load acceptance

Thanks to their ability to accept and instantly deliver the sufficient load acceptance, Volvo Penta engines provide higher redundancy – particularly valuable for emergency sets. Performance you can rely on.

MCC

The MCC electronic platform is the powerful interface for managing e.g. multiple installations and efficient load sharing.

Added emission control

The Volvo Penta engines are designed to withstand high exhaust back pressure, which makes them perfect for applications that require additional emission control equipment.

D16 MARINE GENSET & AUXILIARY

Auxiliary engines

When working at sea, the reliability and durability of your auxiliary engines are vitally important for work and life on board.

Thanks to a long-lasting collaboration with leading manufacturers and our own expertise in marine power engineering, we can offer you highly cost-efficient on-board power solutions.

Volvo Penta engines are renowned for their technical qualities as well as their superior reliability. No matter what your requirements are or what the application is, you will find the perfect auxiliary engine in our broad range of marine diesel engines.

Built-in qualities

As an OEM providing equipment for the marine industry, you want to optimize your products. Apart from being highly reliable, a Volvo Penta diesel engine will add obvious user benefits such as high serviceability, extreme fuel efficiency and exceptionally low emission levels to your equipment. From a design and manufacturing perspective, they also offer excellent power-to-weight ratio, platform commonality and easy installation.

Volvo Penta – the perfect match for:

- Gensets
- Pumps
- Cranes
- Hydraulic power packs
- Air compressors
- High-pressure water systems
- Fire-fighting equipment
- Nitrogen pumps
- Dry bulk handling

... and more

DIESEL-ELECTRIC PROPULSION

With a strong installation track record, the Volvo Penta genset is a proven concept. Our generating sets are well-suited for diesel electric installations due to their fuel-efficiency, very low exhaust emissions and excellent compatibility with power-management systems.

Multiple installations and diesel-electric propulsion

Using high-speed engines as prime movers is the most cost-efficient answer to a broad range of marine power needs. Compared with an installation based on fewer and larger engines, an installation of multiple Volvo Penta engines gives several benefits such as improved fuel efficiency, increased load-sharing capacity, and better redundancy.

Economical operations

Multi-engine synchronizing and load sharing enable each engine to operate at peak efficiency, which optimizes fuel economy and reduces maintenance costs. The high-speed engine alternative is also advantageous from a capital-cost point of view.

Maintenance on schedule

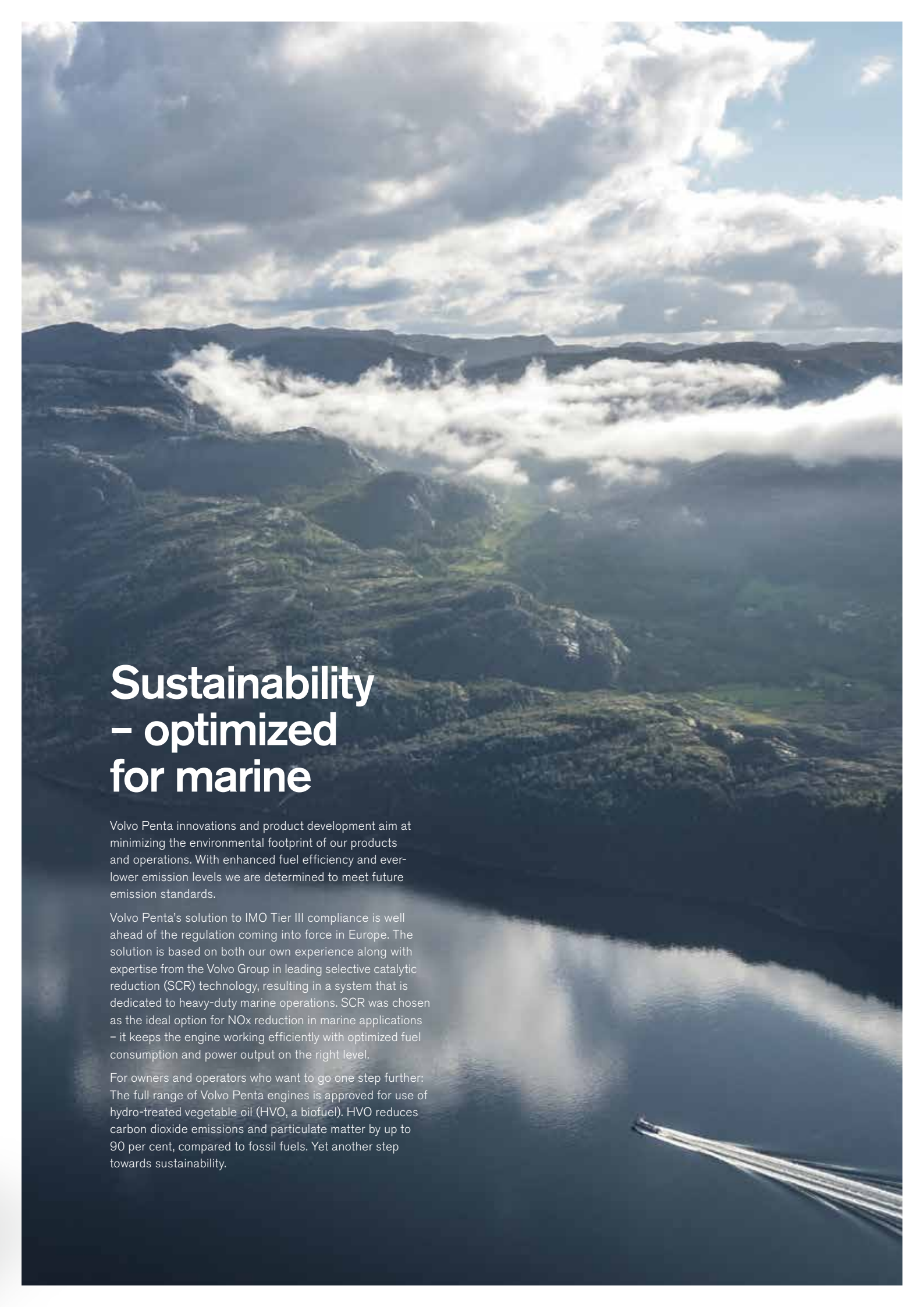
A multi-set installation makes it possible to perform even advanced service operations without compromising the regular power supply.

Environmental performance

Facing increasing environmental demands, a growing number of harbors require visiting ships to use low-sulphur fuel. The Volvo Penta auxiliary engine range is optimized for running on low-sulphur fuel, a fuel that also contributes to longer service intervals and increased engine uptime.

D13 IMOIII
MARINE GENSET





Sustainability – optimized for marine

Volvo Penta innovations and product development aim at minimizing the environmental footprint of our products and operations. With enhanced fuel efficiency and ever-lower emission levels we are determined to meet future emission standards.

Volvo Penta's solution to IMO Tier III compliance is well ahead of the regulation coming into force in Europe. The solution is based on both our own experience along with expertise from the Volvo Group in leading selective catalytic reduction (SCR) technology, resulting in a system that is dedicated to heavy-duty marine operations. SCR was chosen as the ideal option for NO_x reduction in marine applications – it keeps the engine working efficiently with optimized fuel consumption and power output on the right level.

For owners and operators who want to go one step further: The full range of Volvo Penta engines is approved for use of hydro-treated vegetable oil (HVO, a biofuel). HVO reduces carbon dioxide emissions and particulate matter by up to 90 per cent, compared to fossil fuels. Yet another step towards sustainability.



**VOLVO
PENTA**

www.volvopenta.com