

L A T E R A L

NAVAL ARCHITECTS

03

MECHANICAL SYSTEM ENGINEERING

**Lateral delivers** comprehensive breadth and depth of

**capability** in the field of  
mechanical and systems  
engineering.



We undertake whole vessel engineering **from concept to detailed production design**





- # Simplicity

We believe that complex technology need not be arranged in a complex manner and we strive for **simplicity of design** where possible.

- # Integration

We integrate engineering across all disciplines assuring the most efficient use of space.  
We develop systems holistically to ensure spatial and energy efficiency.





- # Installation

We bring our extensive experience in production engineering to bear from inception, ensuring our designs are developed with a focus on **efficient** production and installation.

- # Operation

We bring practical knowledge of in-service operation to ensure that our designs are **easy to operate** and service throughout their life.

75M MOTOR YACHT  
Diesel electric system development





# Lateral has particular **expertise in the design**

of propulsion systems, where we keep apace with the rapidly expanding spectrum of new technologies and range of possible alternatives. **Our portfolio includes**

- Conventional Diesel Mechanical
- Diesel Electric
- Hybrid - Combined Diesel and/or Electric (CODAE/CODOE)
- Combined Gas and/or Diesel (COGAD/COGOD)
- Combined Diesel and Diesel (CODAD)
- Combined Gas and Gas (COGAG)
- Water jet and Prop/Jet Hybrid
- FPP and CPP Systems
- Podded Drive Systems
- Proprietary Novel Drive Systems

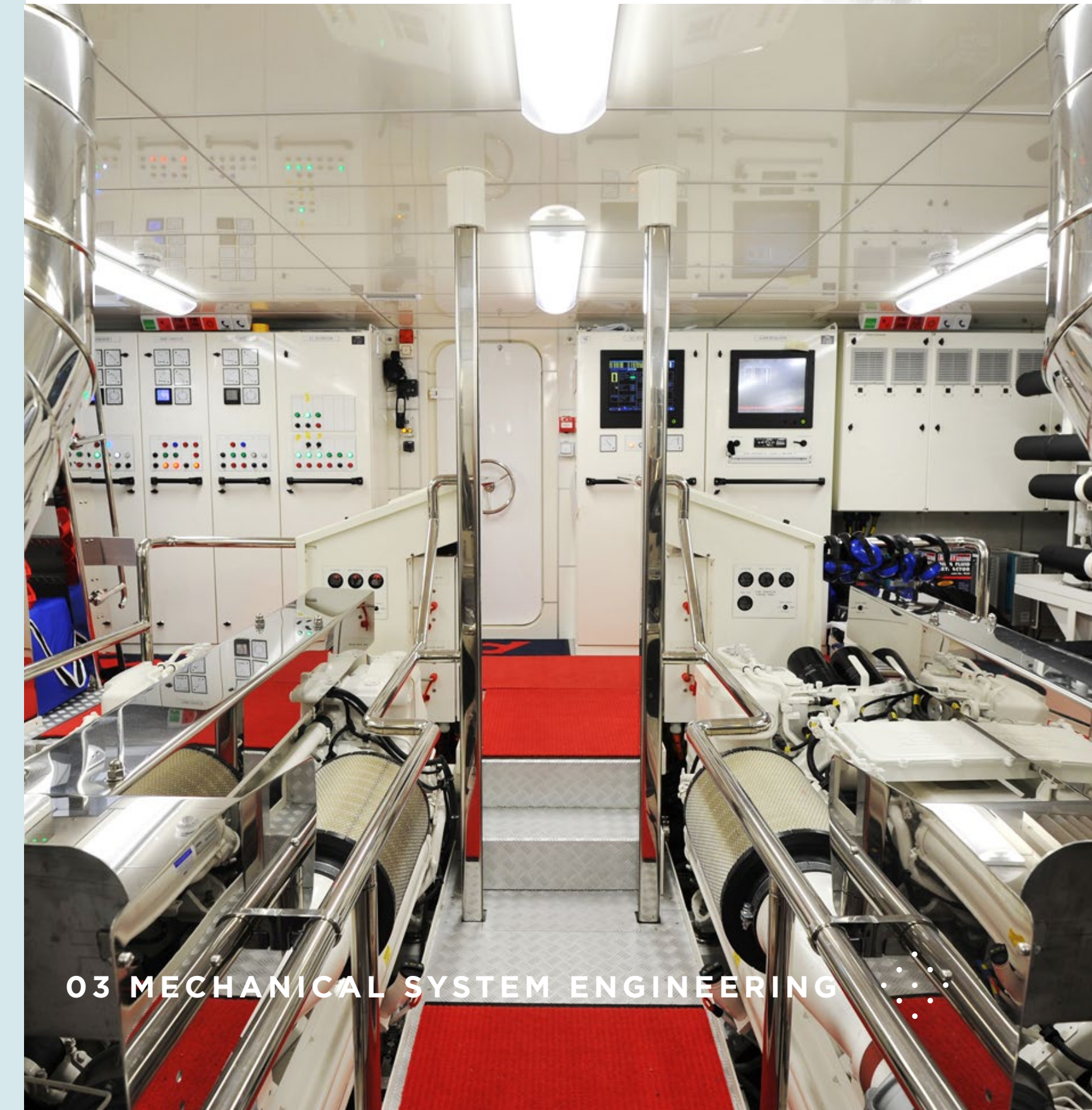
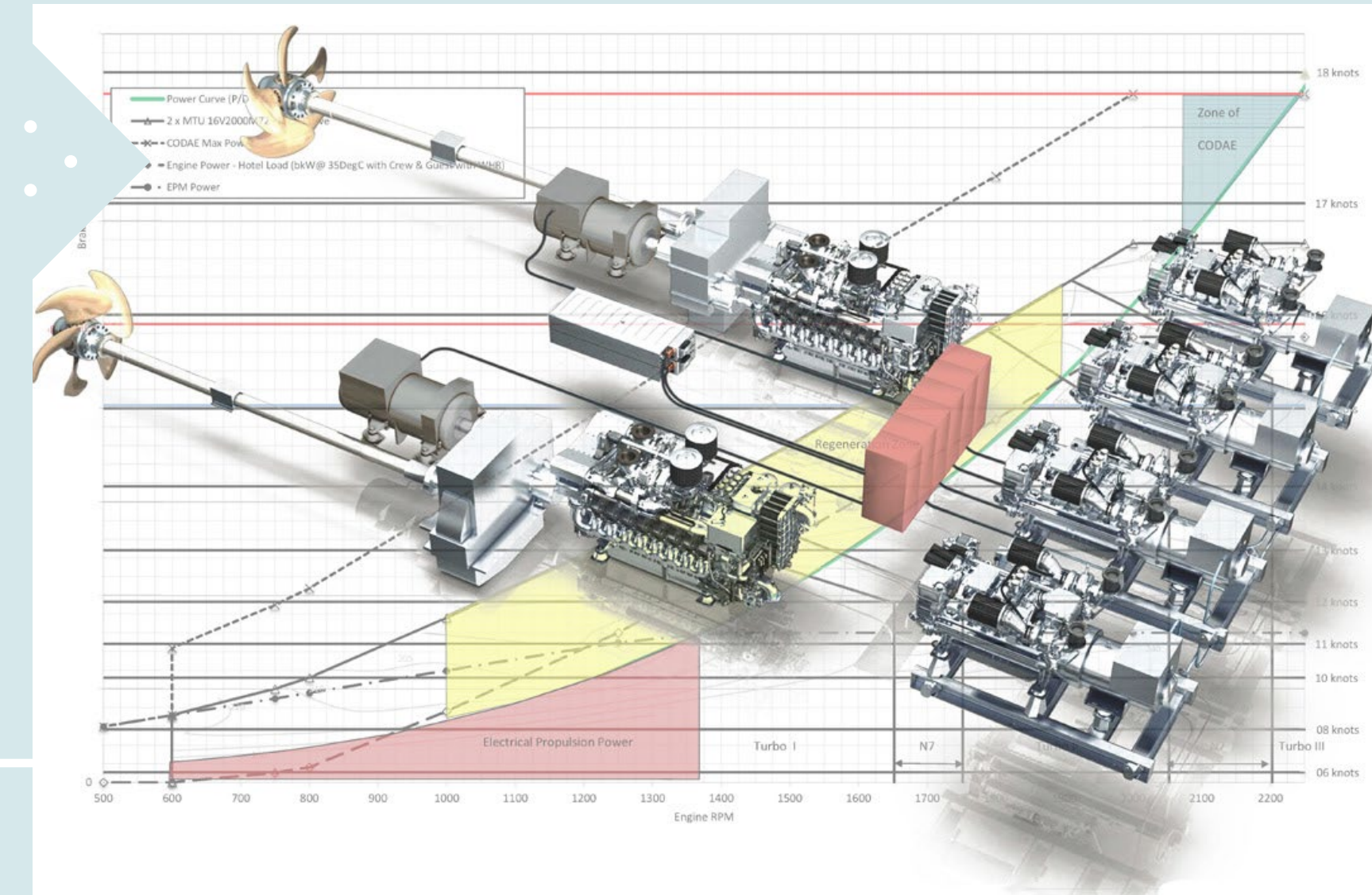




# We can **guide the selection** and configuration

of the optimum propulsion system to achieve any range of required system performance criteria, be it efficiency, flexibility, noise and vibration or any combination of parameters.

Having worked with the industry's leading and most innovative suppliers we develop our designs with input from multiple stakeholders to deliver the most effective, best value and lowest risk design possible.







- **In addition** to the development of main propulsion systems

and associated machinery space arrangements, **we plan and layout all auxiliary machinery spaces:** from providing support and guidance to designers and stylists in early stage space planning to preparation of final spatial arrangements for production.





# **Lateral's capability** •

## covers development of the full suite

of auxiliary system schematics utilising either accepted standard system arrangement philosophy, or challenging the status quo through novel arrangements tailored for energy conservation, zero discharge, integration of new technology or to increase operational effectiveness, ease of maintenance and redundancy.





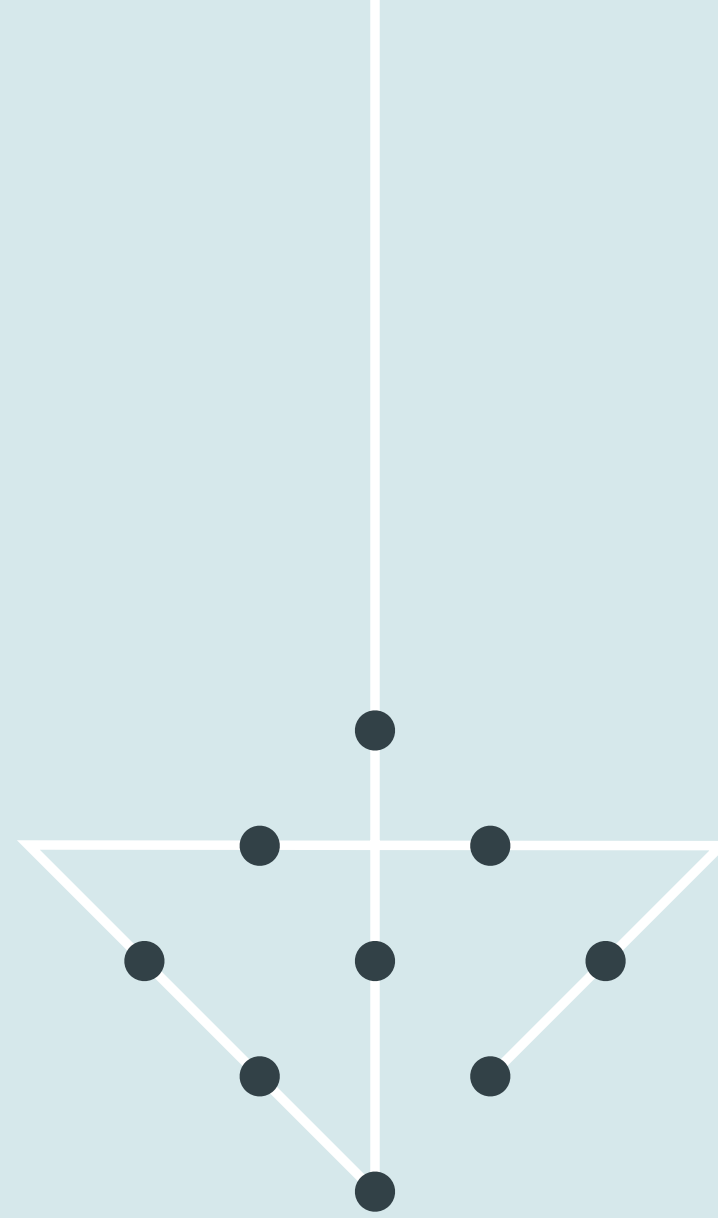


# The breadth and depth of **experience within our team**

extends beyond desk- based design and engineering to providing build support during installation, commissioning assistance and in service consultancy.







**Ask new questions**

**WWW.LATERAL.ENGINEERING**