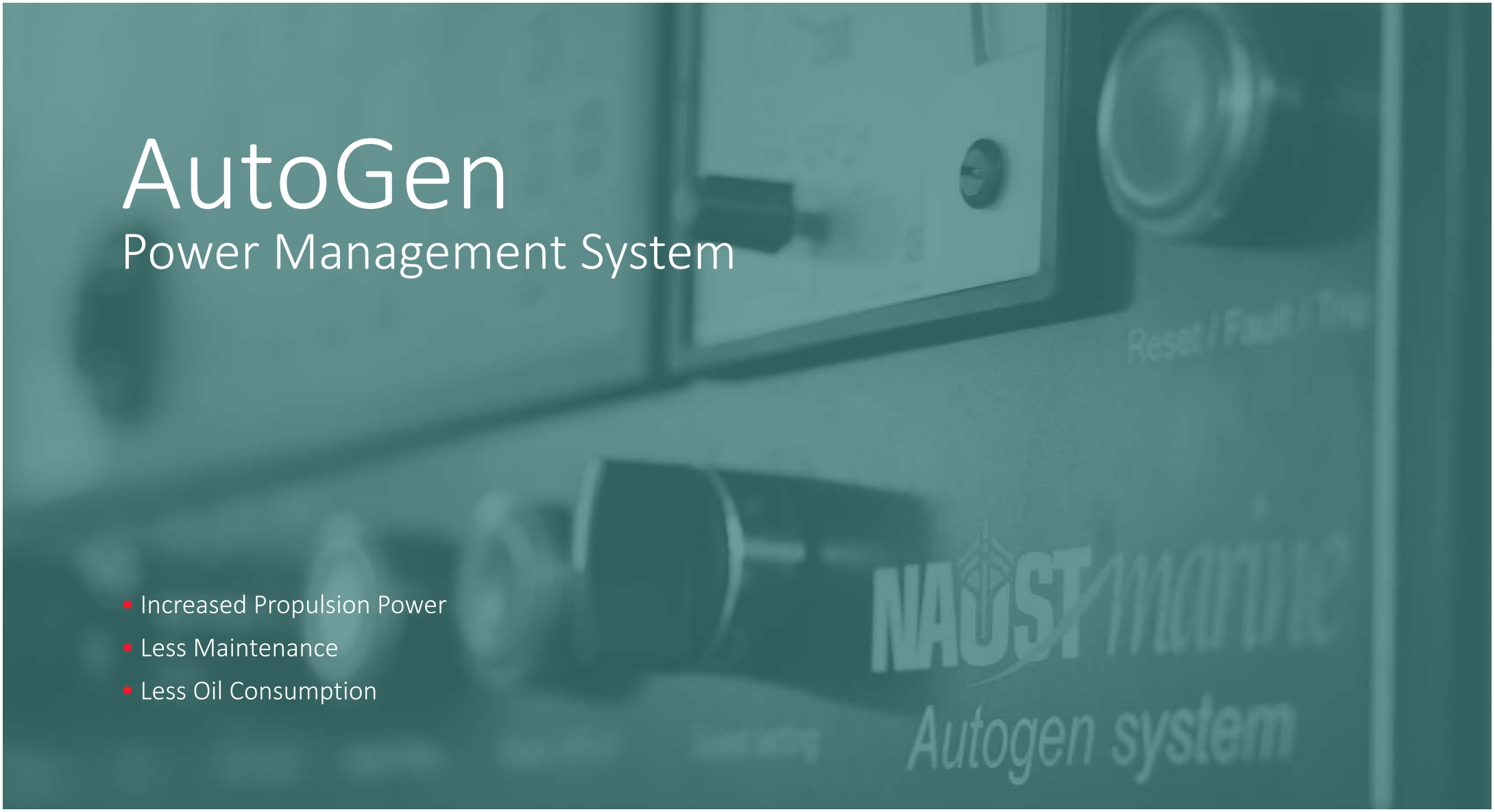
NAUST marine

AutoGen

Power Management System



- Increased Propulsion Power
- Less Maintenance
- Less Oil Consumption

AutoGen

Power Management System

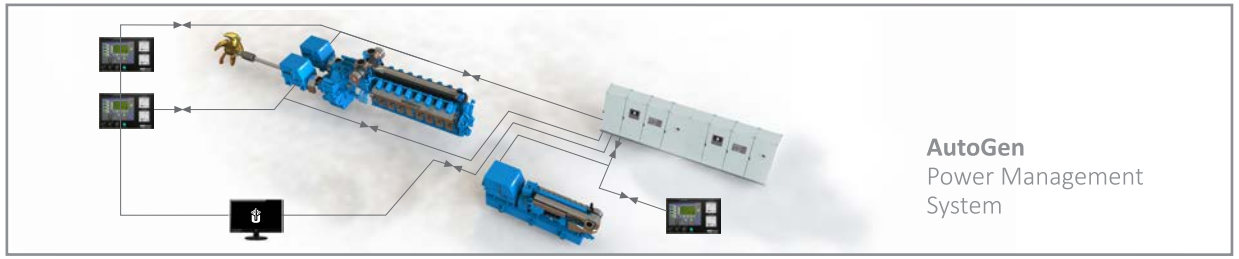
The AutoGen Power Management System from Naust Marine, is an automatic electrical load sharing system. It is designed to increase propulsion power, reduce oil consumption, and lower maintenance costs. The AutoGen System prevents extreme load on individual engines, by providing automatic load sharing and starts and stops the generators per the supply and demand of electrical power.

The AutoGen system is equipped with state-of-the-art technology:

- The main component, the SYMAP unit, controls each generator and links it to the other SYMAP units for smooth synchronous control of the main system, protecting the generators and engines.
- The Power Management System from Naust Marine, controls the ship's main power system.
- The control monitor Human-Machine Interface (HMI) allows its user to have an overview of the entire system and communicate with the generators in one location. It also allows for easier remote support and maintenance by Naust Marine.
- The AutoGen specific control panel is used to select settings for the shaft generator and load distribution on the generators (this is convenient for systems with many generators).

AutoGen

Power Management System



AutoGen
Power Management
System

From the AutoGen control panel, three different modes of operation can be selected for the shaft generator:

- **Mode A:**
  Symmetric Load Sharing.
  Both/all generators run at the same percentage of their rated power.

- **Mode B:**
  Asymmetric Load Sharing.
  Each generator runs at a preset percentage of its rated power.

- **Mode C:**
  Asymmetric Diesel-Electric Load Sharing.
  Each generator runs at a preset percentage of its rated power.

  A certain percentage of the shaft generator's power is defined as available for powering propulsion. The shaft generator can therefore run as a motor, increasing the propulsion power of the vessel.

Complete Deck Machinery Solutions

Electric Winches and
Automatic Control system

Innovative Design
Dependable Controls
Reliable Winches

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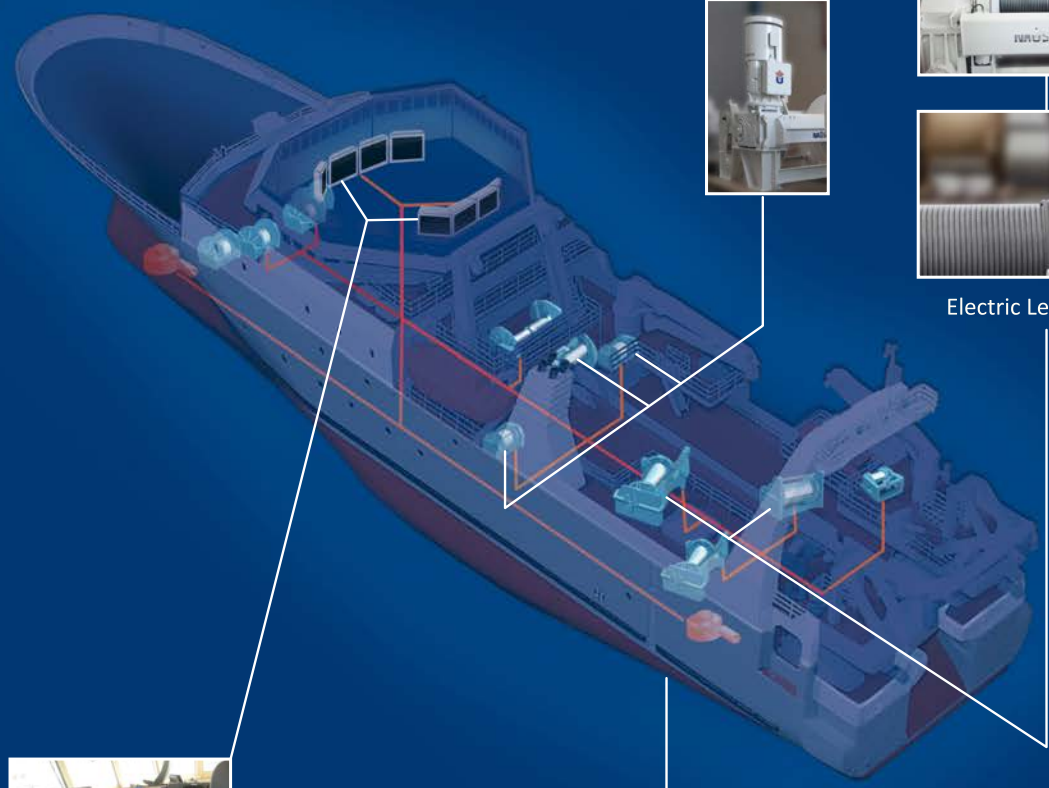

Auxiliary Winches

Trawl Winches

Electric Level Wind

ATW Control System
Bridge controls
for winches

AutoGen Power Management