

THE POWER OF **eRA**

UZMAR[®]

BATTERY ELECTRIC TUG

PROGRESSIVE ENGINEERING EXCELLENT EXECUTION

eRA 2100 • eRA 2500 • eRA 2800



ROBERT ALLAN

THE POWER OF **eRA**

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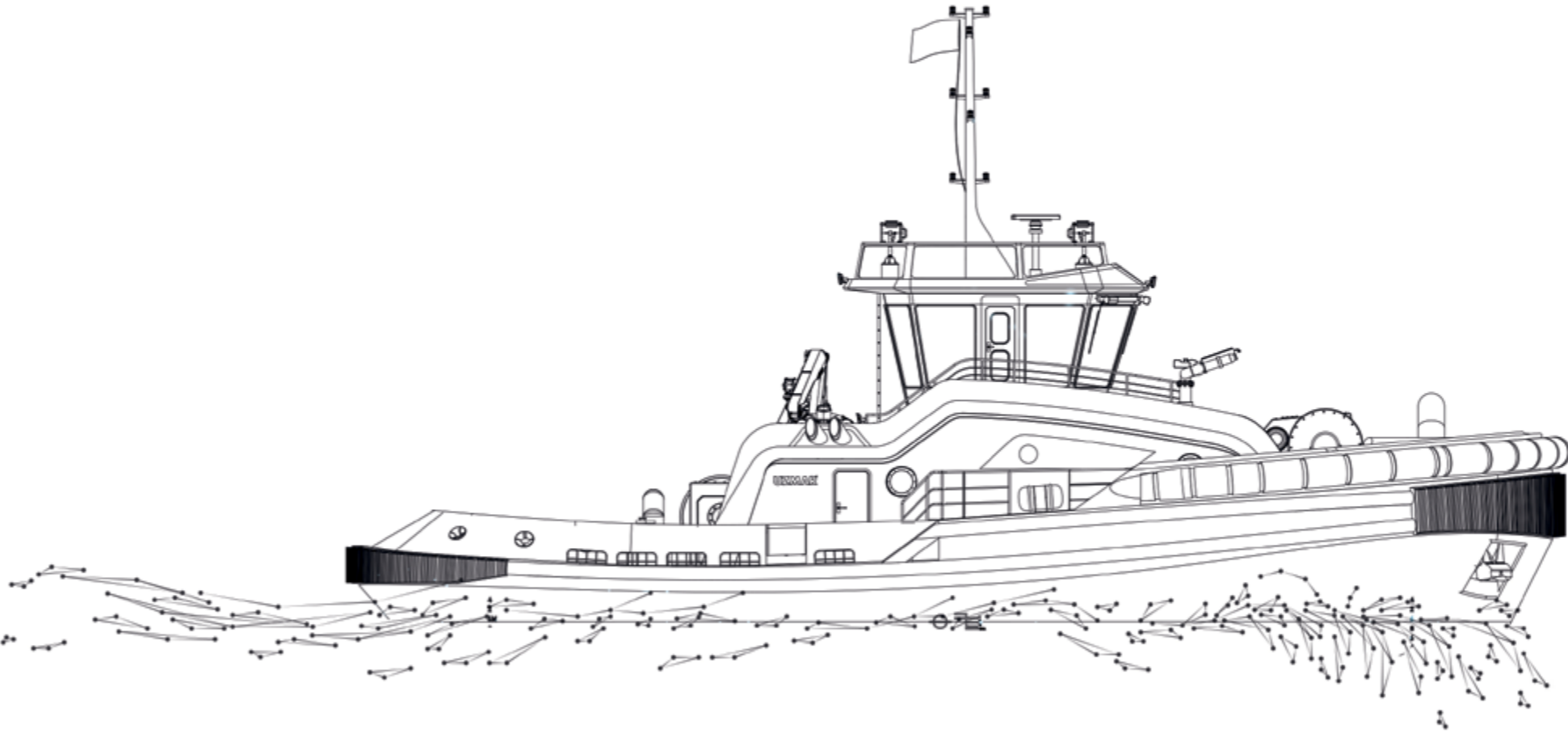
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A NEW **eRA** ARISES FROM THE LEGACY OF THE PAST

With a proud history spanning decades, UZMAR Shipyard stands as a beacon of unparalleled expertise in the maritime industry. Our foundation is built upon an extensive background in towage operations, granting us an intimate understanding of the dynamic challenges that shape the seas.

At UZMAR, engineering is not just a practice; it's a passion. Our unwavering dedication to pushing the boundaries of engineering and innovation fuels our drive to create vessels that transcend expectations.

Our commitment to pioneering design solutions and state-of-the-art technology ensures that each vessel emerging from our shipyard is a testament to the future of maritime excellence.

Discover a new era of maritime possibilities with UZMAR Shipyard, where decades of towage operations, a global legacy of vessel construction, and an unyielding pursuit of engineering innovation converge to chart a course towards unrivaled success on the open seas.

A cutting-edge collaboration between industry leaders UZMAR and Robert Allan, set to revolutionize the world of maritime towage. With an unwavering commitment to sustainability, this innovative series marks a pivotal step forward in eco-conscious maritime operations.

eRA ENGINEERING A SUSTAINABLE WAVE OF CHANGE

Seamlessly combining Robert Allan's unrivaled design expertise and Uzmar's renowned shipbuilding prowess, the eRA series ushers in a new era of emission-free towing power. Embracing electric propulsion, these meticulously crafted tugboats are not only a testament to engineering excellence but also a bold statement in environmental responsibility.

Prepare to navigate waters with a whisper, as the eRA Electric Tugboat Series paves the way for a greener, more efficient maritime industry while maintaining the uncompromising performance standards that Uzmar and Robert Allan are celebrated for. Join us in shaping a sustainable future, one emission-free tow at a time.

FUTURE
Zero Emission -
Noise Reduction -
Carbon Footprint -



RELIABLE
- Advanced Maneuverability
- Reduced Vibrations
- Redundancy and Safety Measures



EFFICIENT
- Fuel and Maintenance Savings
- Long-Term Operational Efficiency
- Operational Flexibility





Tailored Energy Solutions :

Every owner has unique operational needs. That's why we offer the flexibility to integrate the owner's preferred battery technology and brand, tailored precisely to their operational conditions and profile.

Whether it's maximizing efficiency, extending range, or meeting specific power requirements, our customizable approach ensures optimal performance and reliability.

THE POWER OF **eRA**

eRA Series

UZMAR is proud to present a new era in electric tug technology, vwhere **performance, endurance, and sustainability** converge seamlessly.

eRA 2100

LOA: 21 Meters
BP: 50 Tonnes
ESS Battery Banks: 2900 kWh



eRA 2500

LOA: 25 Meters
BP: 70 Tonnes
ESS Battery Banks: 4000 kWh



eRA 2800

LOA: 28 Meters
BP: 85 Tonnes
ESS Battery Banks: 5600 kWh



POWER OF ELECTRIC

Technological Advancements

Lithium-ion battery technology, in particular, has become more efficient, lightweight, and capable of longer-range operations

Cost Savings

Over time, the lower dependence on fossil fuels can shield shipowners from volatile fuel prices and potential future regulations on carbon pricing.

Industry Collaboration

Research and development initiatives are driving innovation and the integration of electric propulsion systems into various vessel types

eRA RANGE

GENERAL PARTICULARS:

LENGTH OVERALL	21.20 m
BEAM, MOULDED	10.80 m
DEPTH, MOULDED	4.00 m
DRAFT, NAVIGATIONAL	3.92 m
INSTALLED POWER*	1 x 500 ekW or 2x 500 ekW

BOLLARD PULL	up to 50 TONNES
COMPLEMENT	4 PERSONS
GRT	< 350

**Alternative power configurations are available on demand.*

CAPATIES:

BATTERY BANKS, NOMINAL approx. 2900 kWh

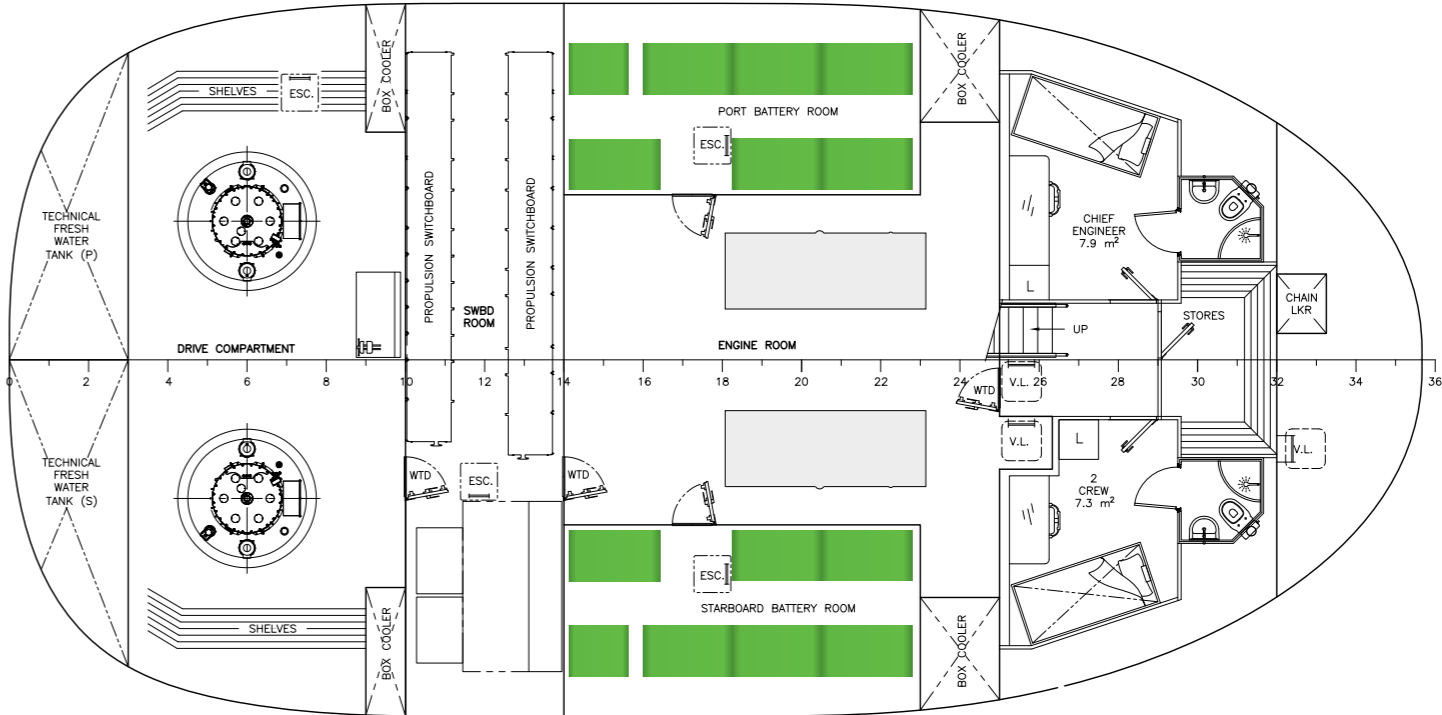
FUEL OIL	25 m ³
FRESH WATER	4 m ³

CLASSIFICATION

BV, TUG, STANDARDIZED BP: 50 TONNES,
BATTERY SYSTEM



eRA 2100

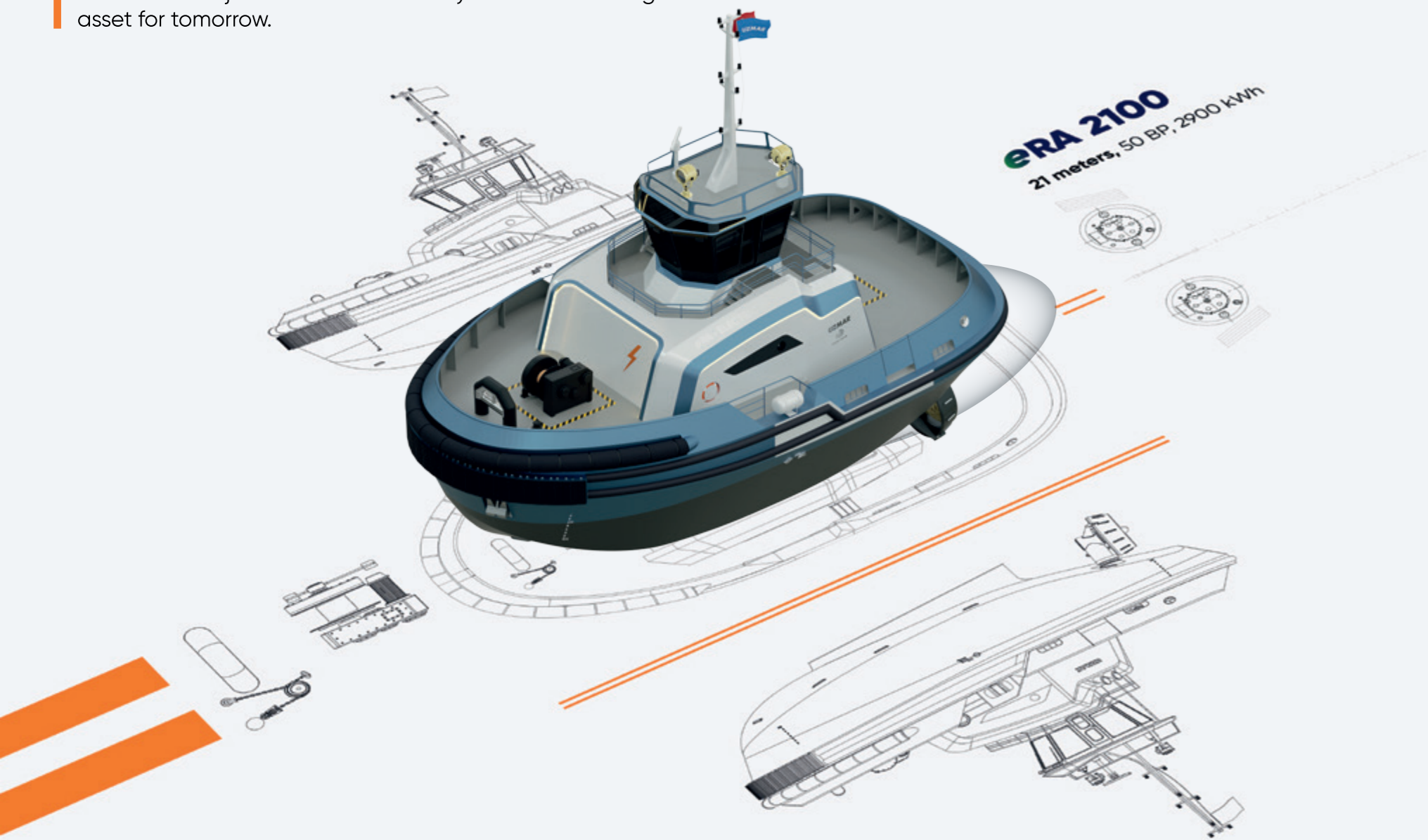


Discover the remarkable results of UZMAR's pioneering endeavors – introducing the captivating trio of eRA series electric tugs: the dynamic eRA 2100, robust eRA 2500, and powerful eRA 2800 models. Meticulously curated to meet the surging demand for extended operational capabilities, enhanced bollard pulls, and steadfast commitment to eco-conscious practices, these designs epitomize innovation at its finest.

UZMAR is proud to present a new era in electric tug technology, where **performance, endurance, and sustainability** converge seamlessly.

Future-Proof Your Operations

With its adaptability, versatility and enduring value, eRA offers not just a solution for today but also a strategic asset for tomorrow.



NEW LOOK

The elegant curves and clean lines of the tugboat's exterior exude a sense of modernity and sophistication.



The exterior color palette of the tugboat reflects our commitment **to environmental sustainability.**

eRA 2500



POWER OF ELECTRIC

Ergonomic design

Designed for operator comfort and safety during prolonged use.

Regulatory Pressure

Authorities are imposing emission caps and emission control areas (ECAs), requiring ship operators to adopt cleaner technologies.

Environmental Benefits

Electric propulsion helps combat climate change by reducing greenhouse gas emissions, supporting global sustainability goal.



eRA RANGE

GENERAL PARTICULARS:

LENGTH OVERALL	25.00 m
LENGTH AT WATERLINE	<25.00 m
BEAM, MOULDED	12.00 m
DEPTH, MOULDED	4.80 m
DRAFT, NAVIGATIONAL	5.20 m
INSTALLED POWER*	1 x 950 ekW (optional) 1 x 950 ekW

BOLLARD PULL	70 TONNES
COMPLEMENT	6 PERSONS
GRT	approx. 354

**Alternative power configurations are available on demand.*

CAPATIES:

BATTERY BANKS, NOMINAL	approx. 4000 kWh
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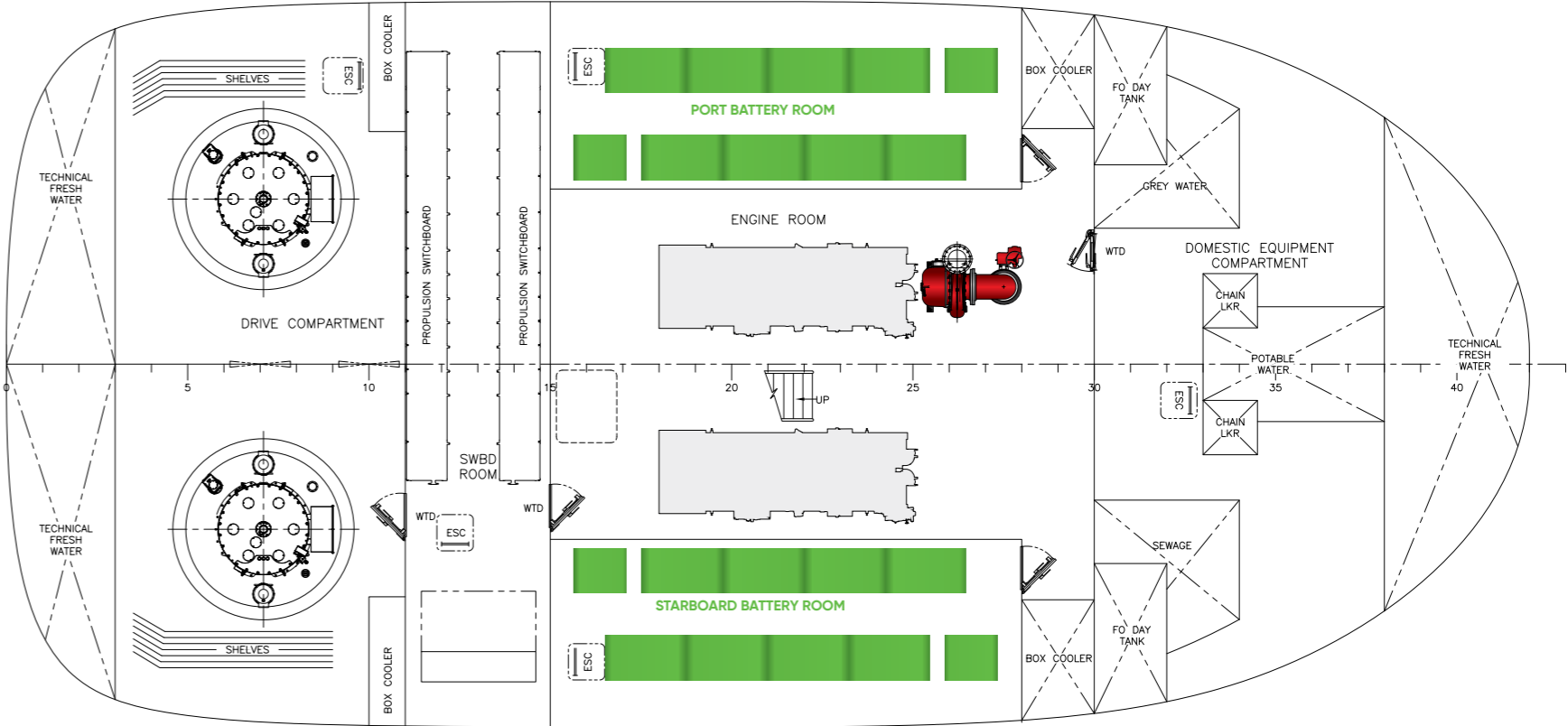
FUEL OIL	50 m ³
FRESH WATER	10 m ³

CLASSIFICATION

BV, TUG, STANDARDIZED BP 70 TONNES, BATTERY SYSTEM, FI-FI-1 WATER SPRAYING



eRA 2500

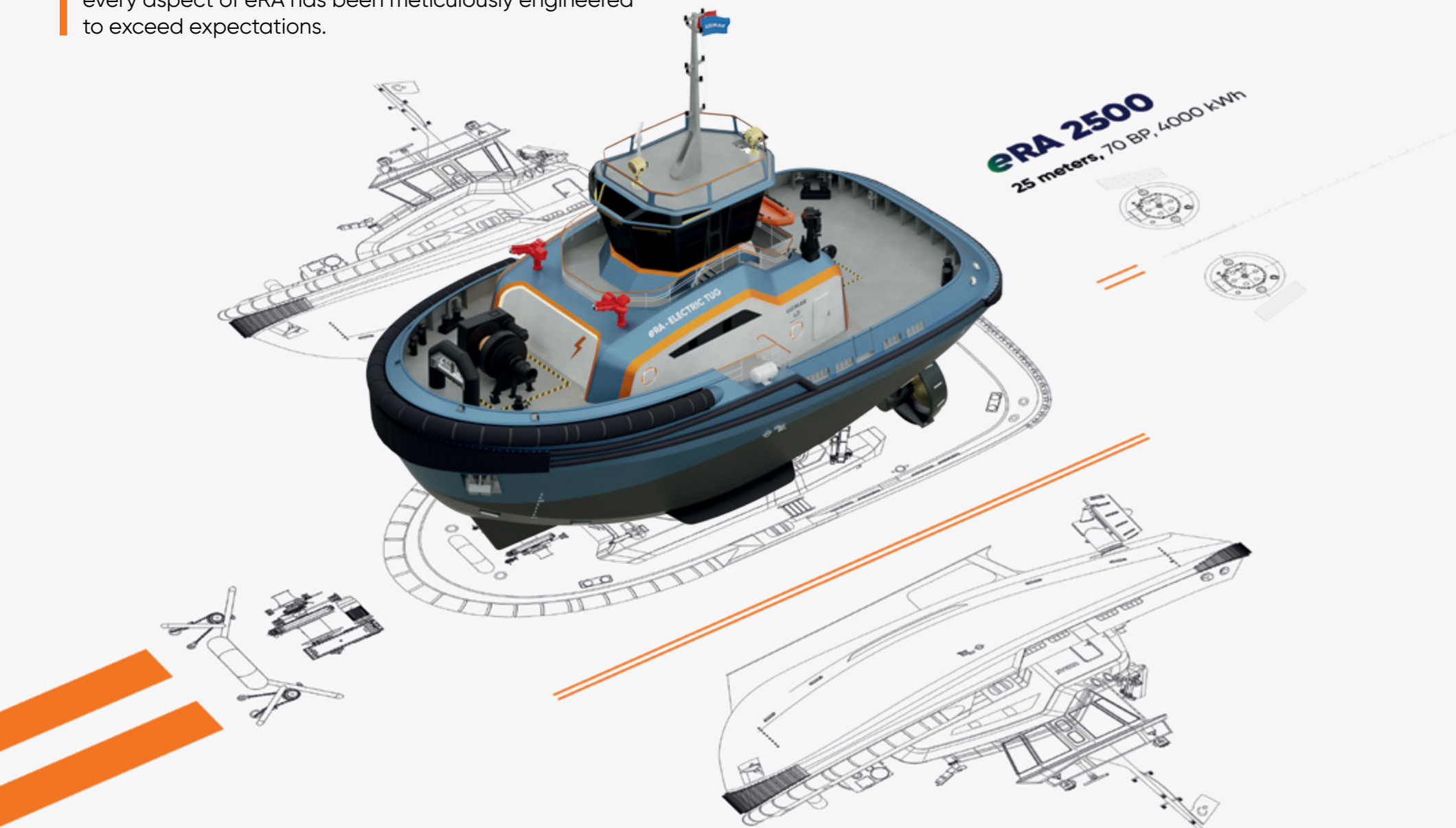


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UZMAR is proud to present a new era in electric tug technology, where **performance, endurance, and sustainability** converge seamlessly.

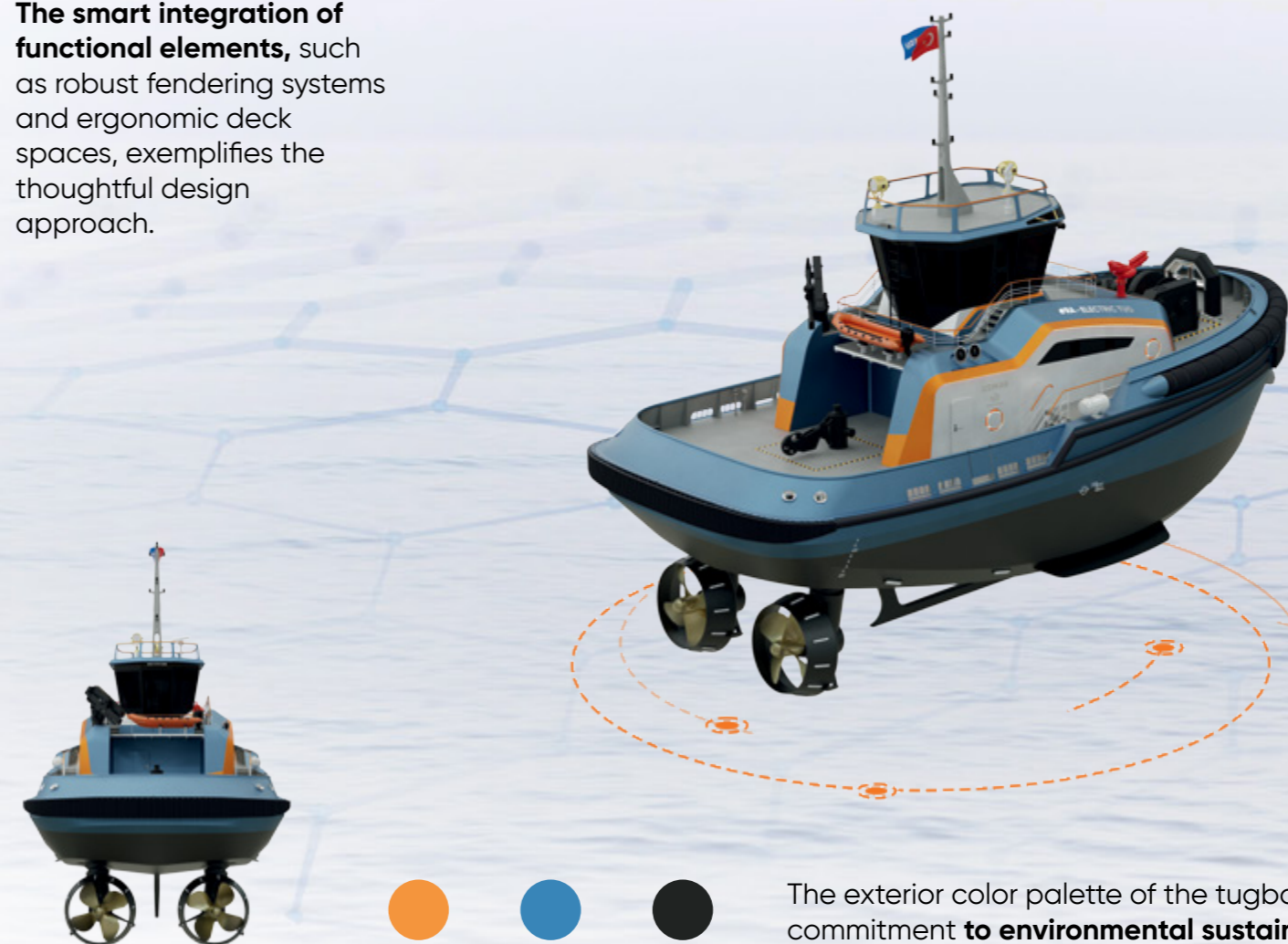
Harness the Power of Innovation

From its robust construction to its intuitive user interface, every aspect of eRA has been meticulously engineered to exceed expectations.



SMART INTEGRATIONS

The smart integration of functional elements, such as robust fendering systems and ergonomic deck spaces, exemplifies the thoughtful design approach.



The exterior color palette of the tugboat reflects our commitment to **environmental sustainability**.

eRA 2800



POWER OF ELECTRIC

Smart control systems

With interfaces for user-friendly operation.

Modular components

For easy maintenance and quick repairs, reducing downtime.

Battery management

System for efficient charging and optimal battery health.



eRA RANGE

GENERAL PARTICULARS:

LENGTH OVERALL	28.40 m
BEAM, MOULDED	13.00 m
DEPTH, MOULDED	5.44 m
DRAFT, NAVIGATIONAL	5.55 m
INSTALLED POWER*	2 x 940 ekW or 2 x 2280 ekW

BOLLARD PULL	up to 85 TONNES
COMPLEMENT	8 PERSONS
GRT	< 500

**Alternative power configurations are available on demand.*

CAPATIES:

BATTERY BANKS, NOMINAL approx. 5600 kWh

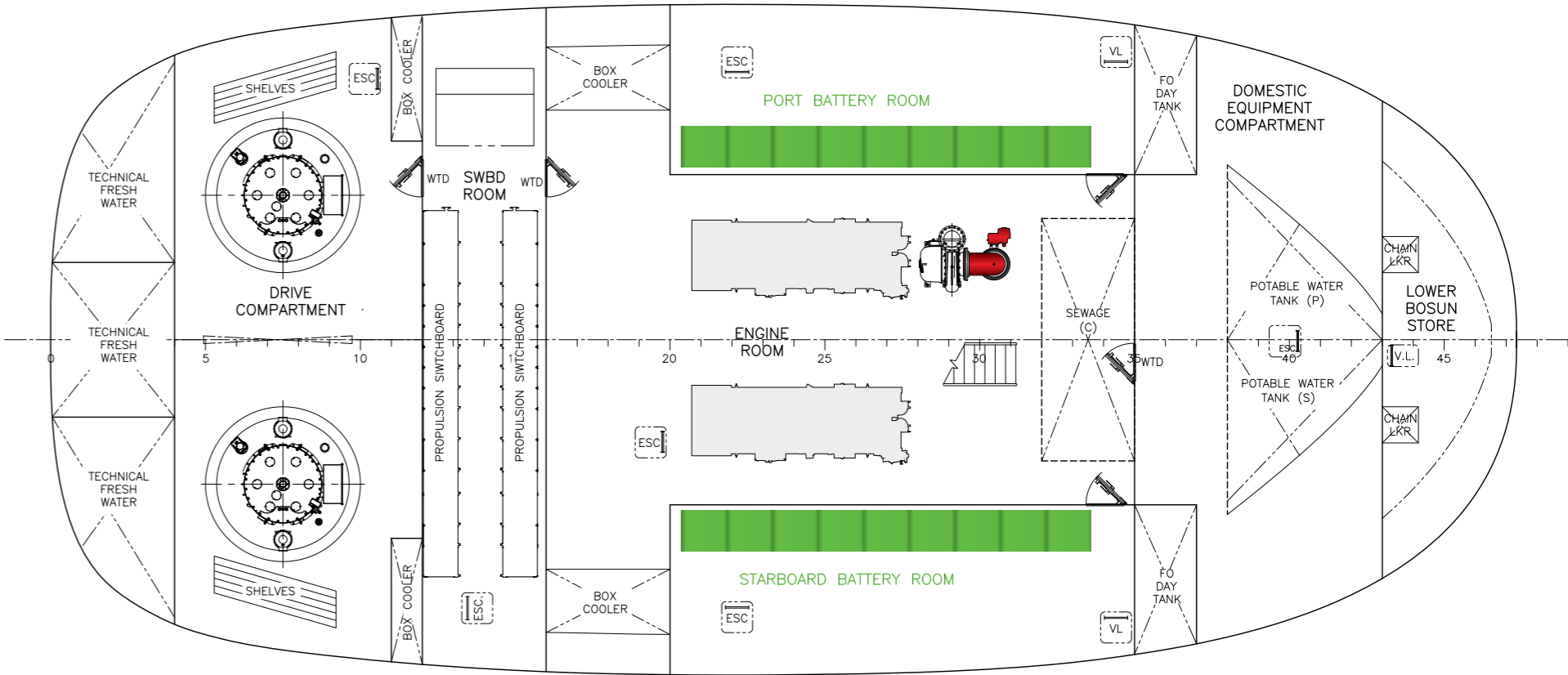
FUEL OIL	80 m ³
FRESH WATER	10 m ³

CLASSIFICATION

BV, TUG, STANDARDIZED BP: 85 TONNES,
BATTERY SYSTEM, FI-FI-1 WATER SPRAYING



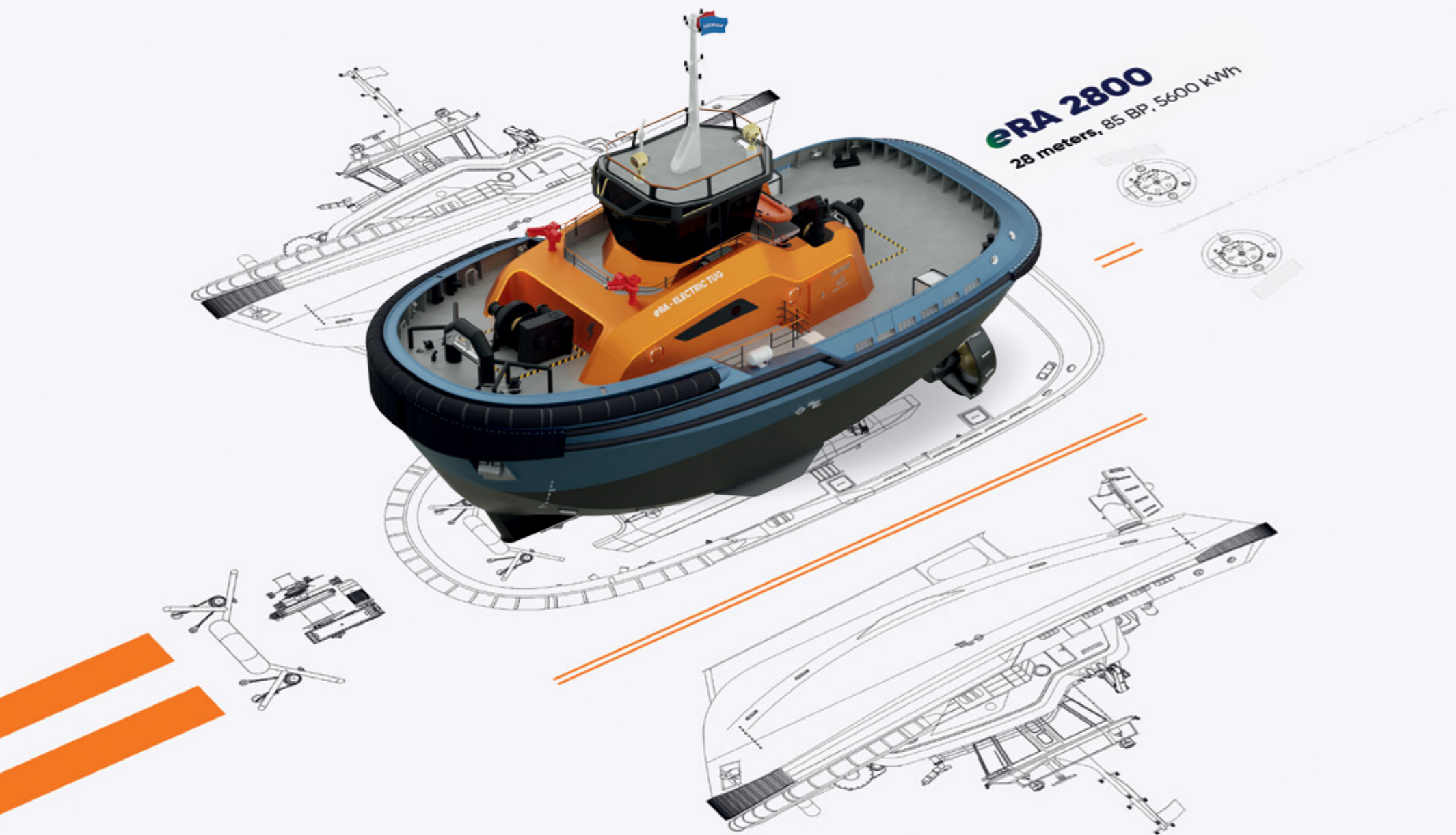
eRA 2800



Discover the remarkable results of UZMAR's pioneering endeavors – introducing the captivating trio of eRA series electric tugs: the dynamic eRA 2100, robust eRA 2500, and powerful eRA 2800 models. Meticulously curated to meet the surging demand for extended operational capabilities, enhanced bollard pulls, and steadfast commitment to eco-conscious practices, these designs epitomize innovation at its finest.

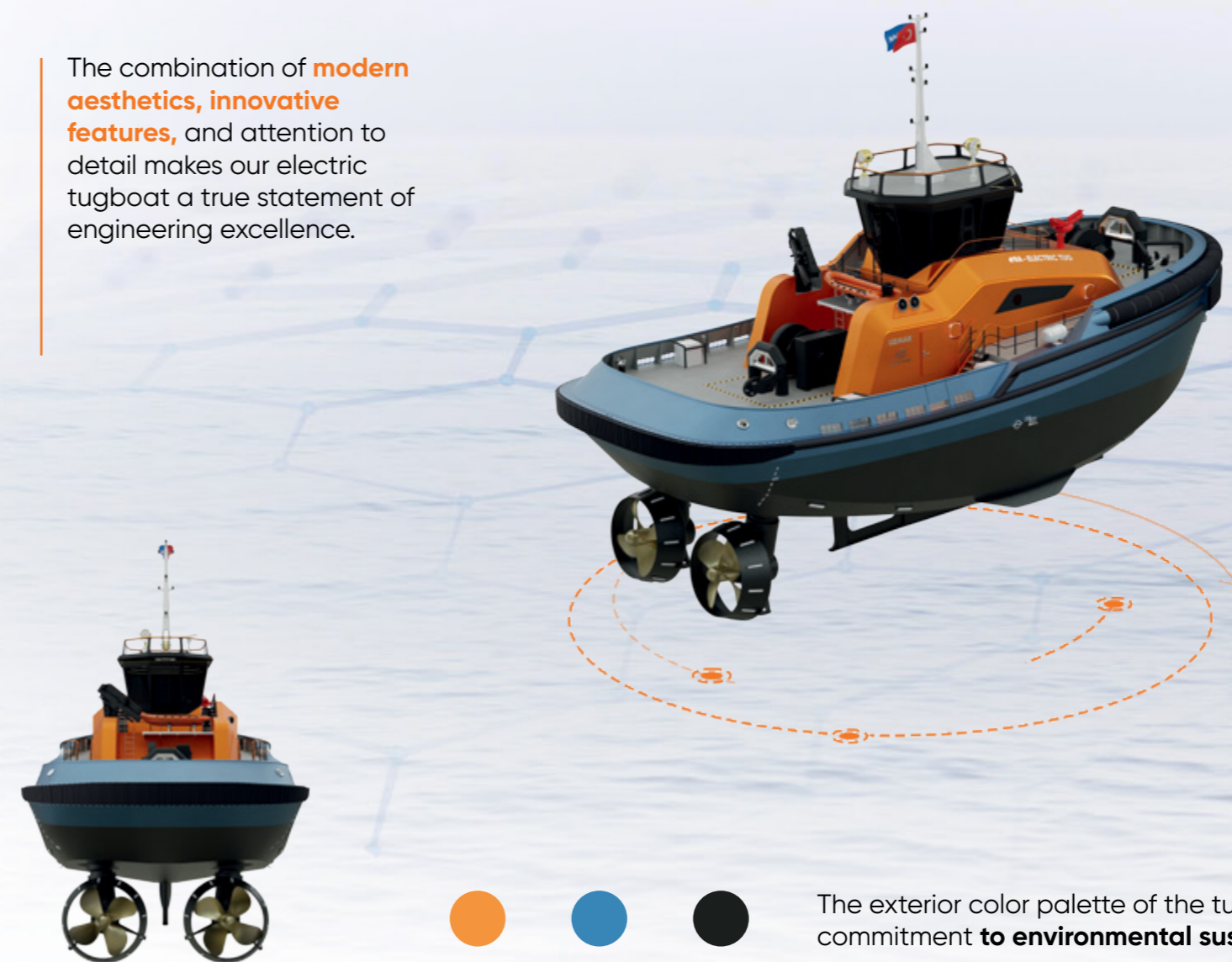
UZMAR is proud to present a new era in electric tug technology, where **performance, endurance, and sustainability** converge seamlessly.

Seamless Integration, Minimal Disruption
eRA is a testament to our expertise in integrating sophisticated vessels into diverse operations



MODERN AESTHETICS

The combination of **modern aesthetics, innovative features**, and attention to detail makes our electric tugboat a true statement of engineering excellence.



The exterior color palette of the tugboat reflects our commitment **to environmental sustainability.**

INTERIOR

Introducing the Futuristic Interior of **eRA**

The combination of **modern aesthetics, innovative features,** and attention to detail makes our electric tugboat a true statement of engineering excellence.





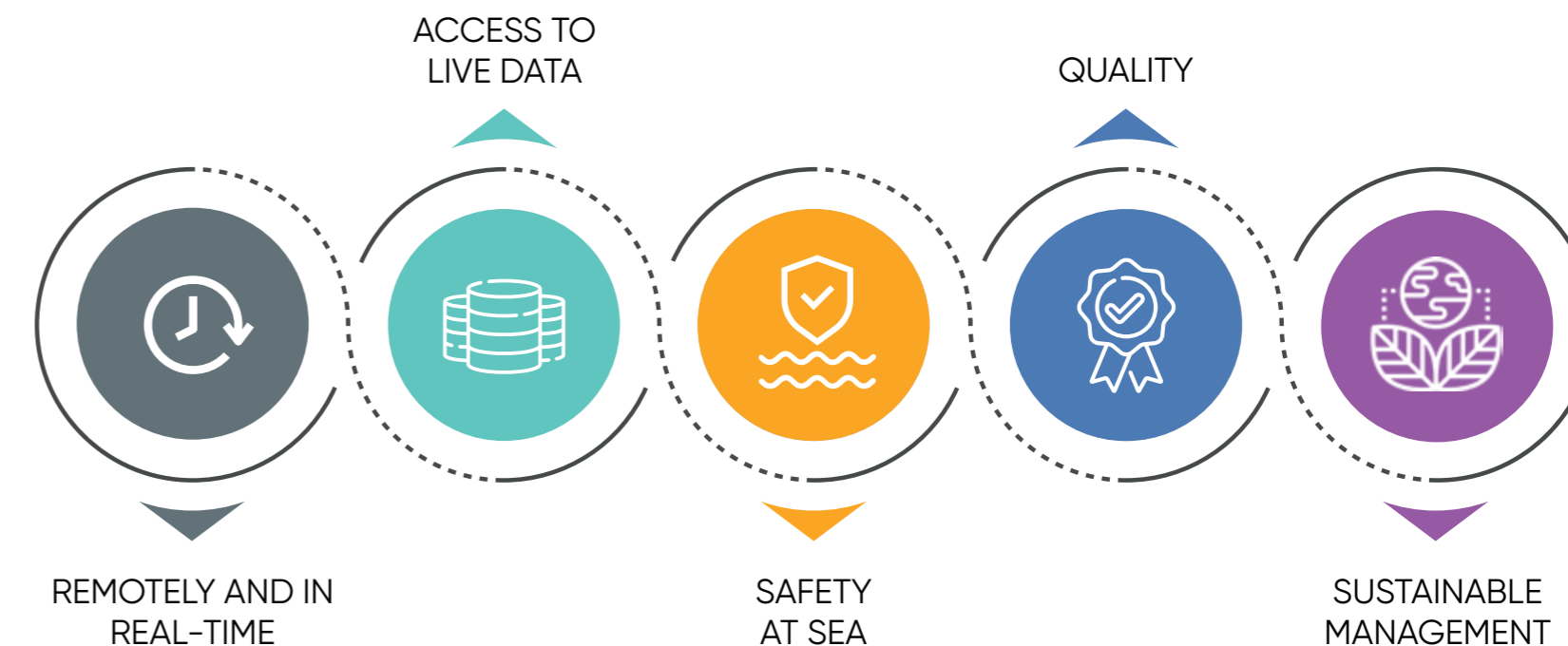
UZMAR DIGITUG TO MAKE YOUR TUGBOATS

 **SAFER**
 **SMARTER**
 **GREENER**

UZMAR[®]

UZMAR TECHNOLOGIES are digitalizing tugboats, generating exceptional impact and value for tugboat operators.

UZMAR DIGITUG's unique capability to bring tugboats into the digital world makes UZMAR a prime candidate for supporting your ambitious sustainability goals.



DIGITUG IOT

UZMAR DIGITUG IOT CABINET is a simple and flexible hardware and software infrastructure that enables direct access to real-time data from your tugboat.



UZMAR DIGITUG CLOUD

UZMAR DIGITUG CLOUD services give you access to important and valuable tugboat data and enables to view your tugboat data wherever you are.

- Cloud-based SaaS platform
- Working on AWS services
- Integration with other softwares
- Flexible and adaptive
- Time series data collection
- Automation rule engine on cloud

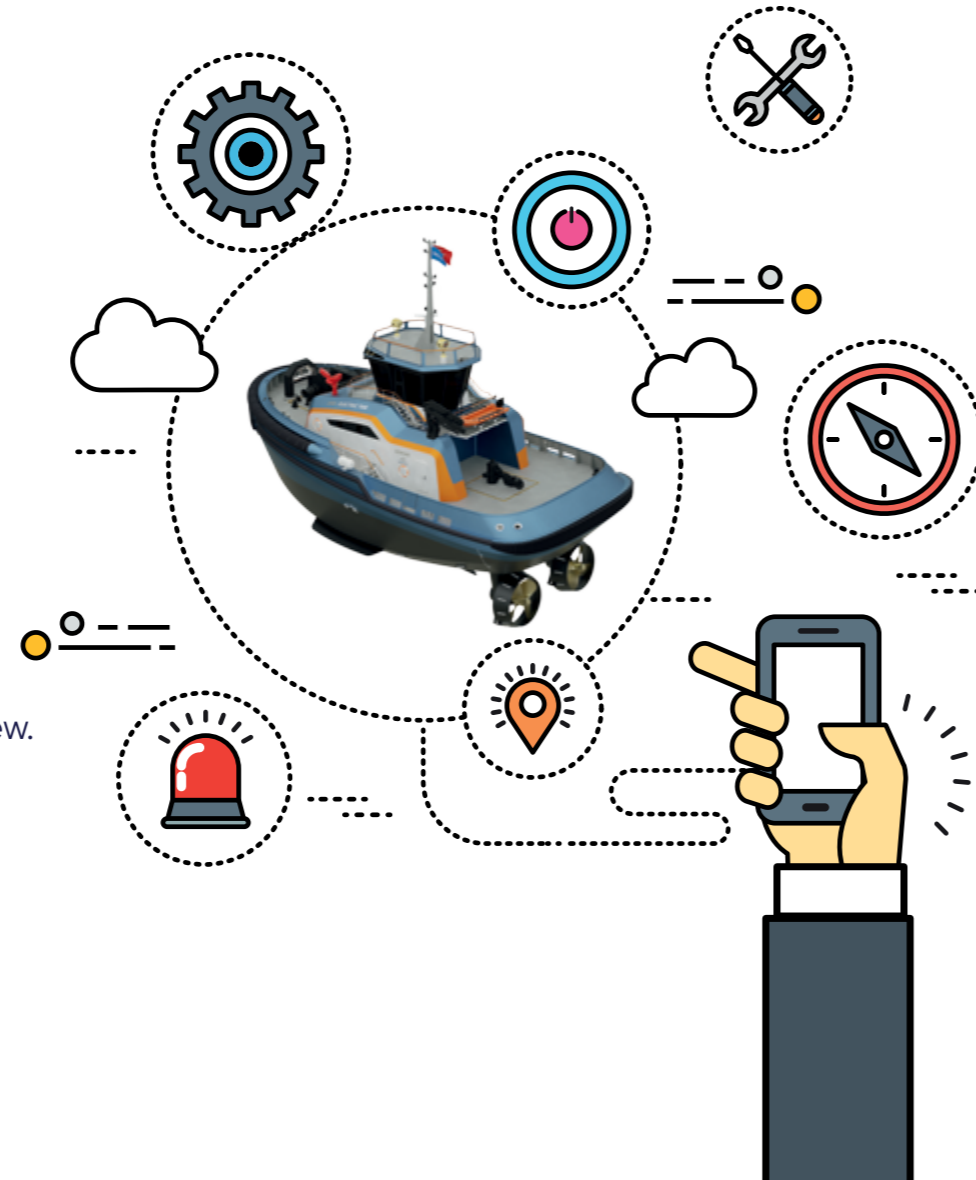
UZMAR DIGITUG INSIGHTS

Standart vessel key metrics include;

- Speed profile
- Fuel consumption
- Engine state & load
- Generator state & load
- All pumps state & running hour
- Supported notifications with rules engine

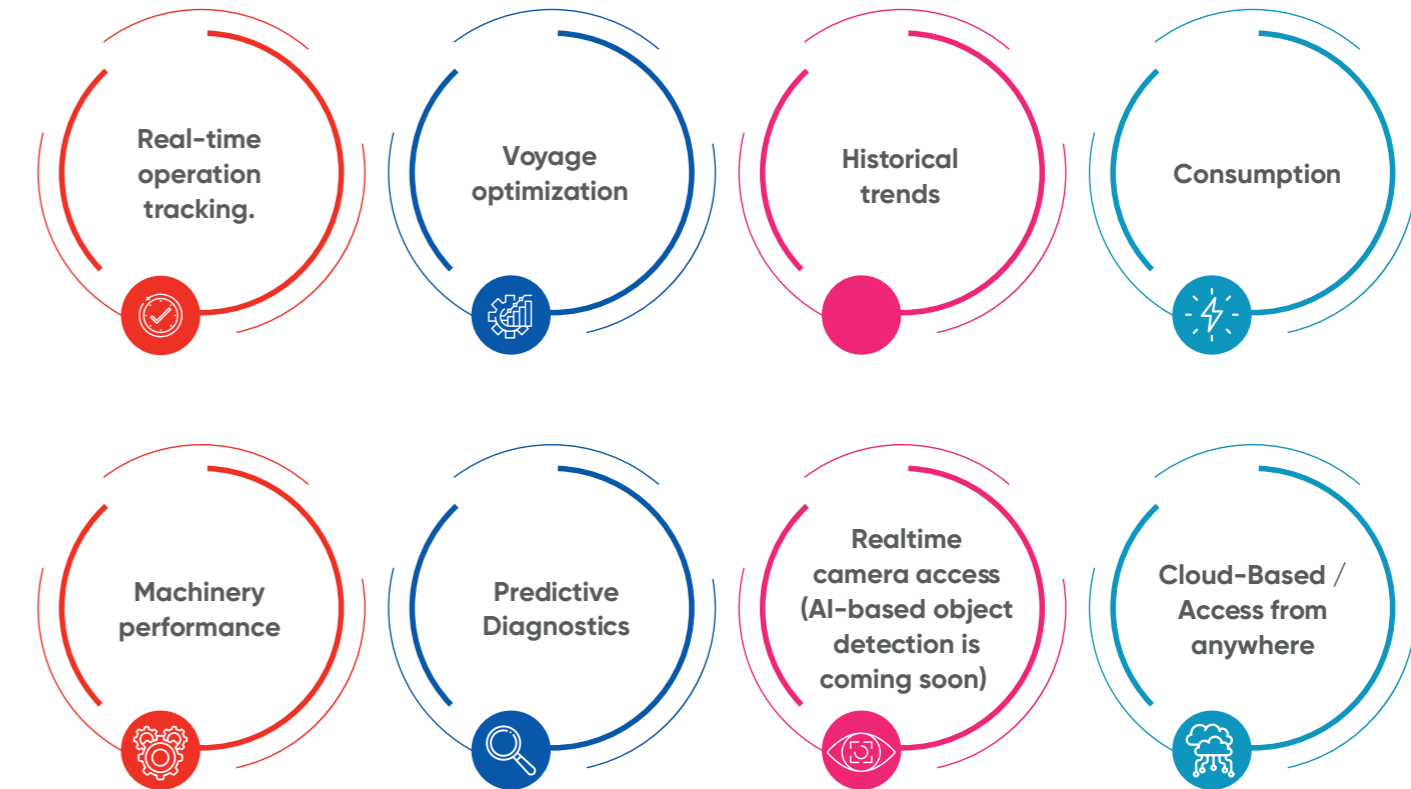
UZMAR DIGITUG PMSS (PLANNED MAINTENANCE & SUPPORT SYSTEM)

- Improves your fleet reliability.
- Reduces your risks.
- Prolongs the machinery lifetime by ensuring that periodic maintenance is performed properly and on time.
- Reduces your maintenance cost in the long term.
- Provides detailed equipment running reports.
- Provides equipment maintenance reports.
- Equipment maintenance templates.
- Equipment maintenance period can be monthly, yearly, hourly or all of them.
- Maintenance can be created automatically scheduled or predictive maintenance.
- All maintenance work is in sync with the calendar.
- Cloud-Based / Access from anywhere.
- Easy documentation control and access saves the time of the crew.
- Long-term data recording provides for the future analysis.
- Spare parts management support minimizes the vessel's out of service time.
- Provides central management of your fleet's equipment and maintenance jobs.



UZMAR DIGITUG FMS (FLEET MANAGEMENT SYSTEM)

UZMAR®



EMISSION REDUCTION TARGETS

Global greenhouse gas emissions must reach their peak before 2025 at the latest and then fall **by 43% by 2030** if we are to keep global warming to 1.5°C.

The 2016 Paris Agreement calls for 196 countries to work toward "limiting the temperature increase to 1.5°C above pre-industrial levels" and limiting global warming to 2°C above pre-industrial levels.

Note that international leaders have emphasized the necessity of keeping global warming to 1.5°C by the end of this century in recent years

This is because, according to the UN's Intergovernmental Panel on Climate Change, going over the 1.5°C threshold runs the danger of causing even more severe climate change effects, **such as more frequent and intense heatwaves and downpour.**

VESSELS FOR NOW AND FOR THE FUTURE



EMPOWER YOUR MARITIME MISSION

Smarter Towage with Customized Electric Tugboats!

Experience towing operations like never before with eRA, tailored precisely to your needs.

Crafted with customizable features and advanced technology, **eRA** offers a new level of versatility in towage operations.



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