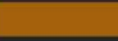


GreenNaval  
60



Green innovation for future generation

# GreeNaval Yachts

The concept behind the Greenaval series is maximizing the comfort and efficiency while keeping its eco-friendly abilities. Greenaval's differentiation on the electrical yacht market is given by its vast and modern furnished interiors available at a reasonable price.

Sustaining both functionality and innovation, GreeNaval's main advantage is based on the material used for building the yacht, aluminum. Properly constructed, aluminum is the world's premium yacht building material combining light weight, high strength, easy workability and acceptable cost in one package.

Another distinct feature of GreeNaval resides on 4 different options regarding the propulsion system, depending on the customer's needs and requirements.

1. Full green option
2. Electric motor
3. Hybrid system
4. Diesel engine

The electric propulsion systems offers a clean, green and quiet alternative to the classical motor-yachts.

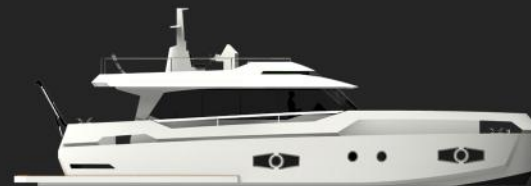
Sleek and assertively proportioned exterior, inviting and brightly lit interior, innovative system and modern features make GreeNaval the best hybrid motor-yacht on the market.



40'

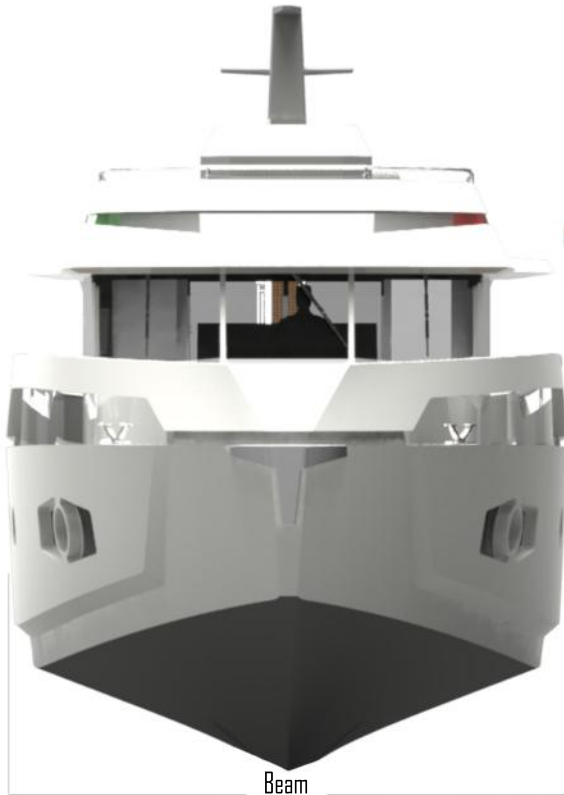


47'



60'





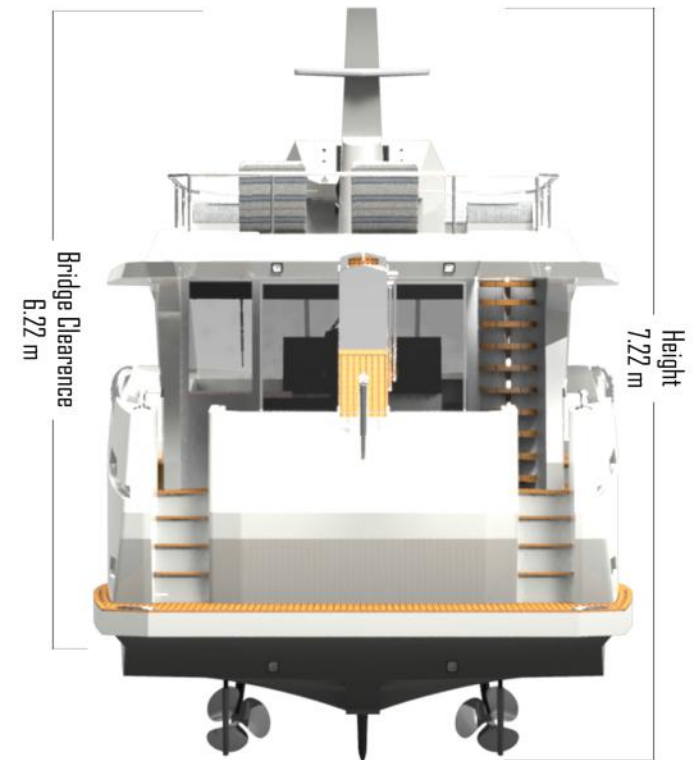
Beam  
5.35m



Length Waterline  
16.67 m

### Brief Specifications:

Loa.....	18.25m
Lwl.....	16.67m
Beam.....	5.35m
Draft.....	1.20m
Displacement.....	34.50 tons
Full Speed Diesel Model.....	13.00 knots
Cruising Speed.....	8 knots
Diesel Engines:.....	2x290 HP Cummins
Genset(Onan).....	17kVa x 2
Hull & Superstructure Material.....	Marine Aluminium
Electrical System.....	380/220 V AC & 24V DC



Bridge Clearance  
6.22 m

Height  
7.22 m





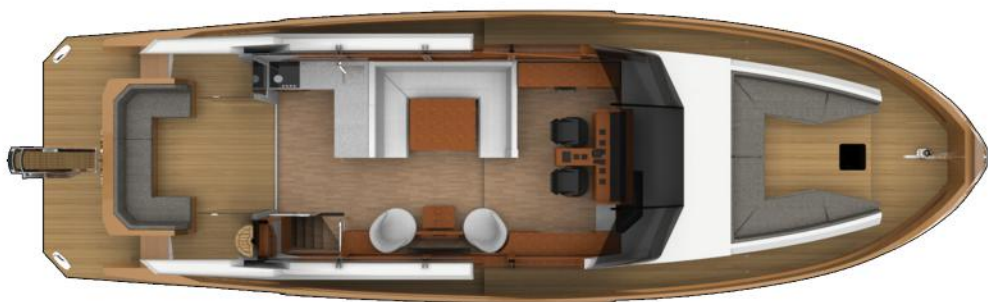












Main deck



Lower Deck

## LAYOUT

Greenaval 60 features a large saloon with an U type seetee located at the portside and a TV unit with lockers at the starboard. The saloon also includes a modern galley fitted out with Corian work surfaces and equipped with a fridge, an oven and a cooker, a dishwasher.. The salon and the galley have large window with an amazing panoramic view and are connected to the helm station.

The lower deck features three cabins and two heads. One full-beamed master cabin furnished with a 200 x160 cm sized bed, two nightstands and two reading lamps located at each side of the bed. The master state-room also features two big portholes at the sides and one glass hatch at the top of the bed. The master cabin reaches the amazing height of 2.10 m.

Guest cabin is located at the portside featuring two single beds sized 200 x 80 cm, . Both berths are equipped with nightstands and reading lights, along with 4 led spots on the ceiling and wire led lights under the beds. The guest cabin has restroom, located at the starboard, is equipped with electrical closets, a modern sink and custom fixture.

# TECHNICAL SPECIFICATION - GREENAVAL 60

## DIMENSIONS and MAIN PARTICULARS

- Length Overall (LOA): (18.00 m)
- Length Waterline (LWL): (16.67 m)
- Beam Overall (5.30 m)
- Draft (Full Fuel Load) (1.20 m)
- Displacement( Half Load) 38.0 metric Tons
- Fuel capacity (5.600 liters)
- Fresh Water capacity (1200 liters)
- Waste Water Capacity (1000 liters)
- Speed (Cruise) 8.0 knots
- Speed (Maximum) 14 knots
- Range at cruise speed 3000+ NM

## HULL

- Hull and superstructure made of marine aluminium top grade H321 and H111 5083. Plate thicknesses: Hull bottom plates are 8mm, hull side plates and integrated tanks sides -6mm, hull sides-6mm, superstructure and fly bridge are 5mm thickness.
- Hull below the water line painted with three layers of antifouling paint “Teknomarin”
- “ALEXSEAL ” or “INTERNATIONAL” paint for Hull and Superstructure
- Yacht quality faring above the water line
- 3 bulkheads made of aluminium and acoustically and thermally insulated

## ENGINES

- Volvo Penta IPS 600 x 2 main engines, diesel.
- All control units and power equipment
- ERC propellers
- Two Centec Vernaton mufflers with mixers. Exhaust outlets on port and starboard sides of the sides
- Two RACOR filters for generators
- Two 1,5 ” sea water strainers for engine cooling system
- ½” fuel manifold
- Bow thruster, Vetus, 150 kgf

## STEERING SYSTEM

- Two rudder stock and plate type rudders 0,135 sq.m each
- Vetus Steering System MTC 125, with manual back up steering, pilot house and fly bridge stations. Emergency tiller in the lazarette. Two HTP 30 hydraulic steering pumps. (Rudder turning: 8.5 times)
- Zinc anodes on rudders

## MOORING SYSTEM

- One custom designed type anchor 60 KG each, Aluminium made located at fore side of the boat
- Chain locker with fresh water wash down taps
- Hull protection plates,Aluminium H321, well finish
- 10mm chain, 80m, zinc coated, tested for high workloads for each anchor
- One electric windlass, Quick brand (Italian) with foot switches, remote control, chain counter, two chain stoppers with the rollers
- Two heavy duty aluminium bollards for bow and two for the aft deck, two small cleats at amidship and two small cleats on platform for mooring tenders or toys
- Electric Capstan, 2 pieces

## OUTFITTING

### a. FLY BRIDGE

- Flexiteek fly bridge deck
- Scuppers with pipe line collector for water evacuation with overboard discharge
- Center console including:
  - 1- Storage ( 30cm x 70cm)
  - 2- Fire extinguisher 2kg
  - 3- Motors and thrusters controls
  - 4- Raymarine E95 Screen
  - 5- RV2 i70 driver repeater
  - 6- Holding bars
  - 7- Pilot seat with foot rest on the fly bridge
- Big U shape sitting group with:
  - 1- Storages under ( volume: apprx. 0,400 cb.m.)
  - 2- Cushion with sunbrella fabrics.
  - 3- Mini fridge at portside, fixed to sitting group
  - 4- Mini storage at the opposite side of fridge.
- Aluminium pipes with wires all around flybridge area (Height: 80 cm)
- Forward facing flood/search light
- Electric horn
- Aft, side and forward flood lights, LED
- Built-in mast
- Navigation lights, HELLA
- Anchor light, HELLA
- SS flag staff
- Bimini with aluminium frames
- Electric Grill, 220V

## **b. FORE DECK**

- Composite Teak deck
- U shape sitting and sunbathing area
- Integrated search light
- Mooring equipment (listed above)

## **SWIMMING PLATFORM**

- Composite Teak decking
- Two aluminium cleats
- Hydraulic pasarella with tender lifting capability, Opacmare
- Hydraulic Swim Platform
- Electric shore connection cable, 15 meters
- Deck shower hose ( integrated under boat name
- Boat and Harbour Name (Stainless Steel with back light)
- Removable railings, Alu pipes, 32mm Dia.

## **MAIN DECK**

- U shape dining area including;
  - 1- One fixed and painted table
  - 2- Cushions and sunbrella fabrics
  - 3- One hatch for crew entrance (50cm x 50cm)
- Composite Teak decking
- Two aluminium bollards
- Vents for all fuel tanks, oil tanks, and fresh, grey, and black water tanks
- Stairs up to flybridge, aluminium structure
- Steps to swim platform
- One deck washing hose
- Water filling gap on both sides, aluminium, Vetus brand
- Fuel filling gap on both sides, aluminium, Vetus brand
- One cabinet under flybridge stairs (for shoes and small staffs)
- Courtesy lights around superstructure ( 12 pieces)
- Ceiling lights, LED, (6 pieces)

## **INTERIOR**

### **a. AFT MASTER CABIN**

- Two openable portholes and two big windows shown on renders
- One double bed ( 200cm x 160cm)
- One settee at portside with coffee table
- One wardrobe with one shelf at top, one place for dresses, two drawers under
- LED lights at ceiling ( 6 pieces)
- Rope lights at floor
- Sockets and switches both in entrance and bedhead
- Headroom including;
  - 1- Shower area with a teak seat, separated by acrylic glass
  - 2- One sink and closets under the sink ( apprx.0,1 cb.m)
  - 3- White coloured walls and ceiling
  - 4- Light grey colour painted and non-skid pattern floor
  - 5- One electric toilet, TMC brand, 24V
  - 6- One movable round mirror
- LED TV, Samsung brand, 24" with MP3 and DVD

### **b. FORWARD MASTER CABIN**

- Two openable portholes and two big windows shown on renders
- One double bed ( 200cm x 150cm)
- One wardrobe with one shelf at top, one place for dresses, two drawers under
- LED lights at ceiling ( 6 pieces)
- Rope lights at floor
- Sockets and switches both in entrance and bedhead
- Shared Headroom including;
  - 1- Shower area with a teak seat, separated by acrylic glass
  - 2- One sink and closets under the sink ( apprx.0,1 cb.m)
  - 3- White coloured walls and ceiling
  - 4- Light grey colour painted and non-skid pattern floor
  - 5- One electric toilet, TMC brand, 24V
  - 6- One movable round mirror
- LED TV, Samsung brand, 24" with MP3 and DVD



#### d. CREW CABIN

- **Two windows shown on renders**

- Two single bed ( 200cm x 90cm)
- One wardrobe with one shelf at top, one place for dresses, two drawers under
- LED lights at ceiling ( 6 pieces)
- Sockets and switches near each beds
- One washing machine + dryer, located between two beds, BOSCH WVH2844D
- Small headroom including:
  - 1- One electric toilet, TMC brand, 24V
  - 2- One sink

#### e. SALOON

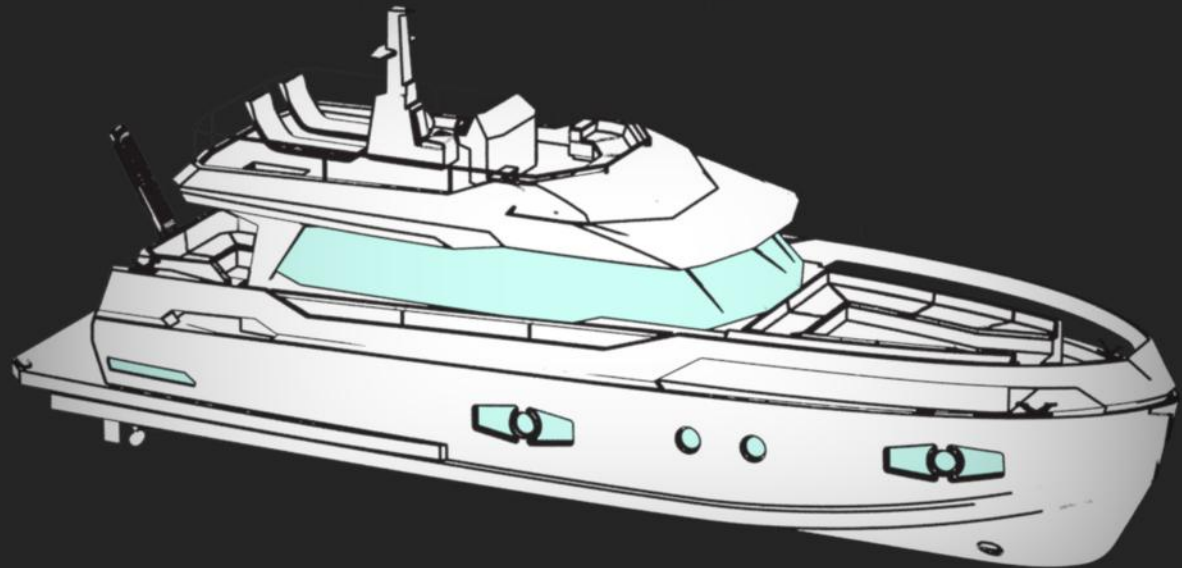
- L type galley area including:
  - 1- One electric hob, BOSCH PKE611D17E
  - 2- One electric microwave oven, BOSCH HMT75G654
  - 3- One dish washer, BOSCH SMU63L05TR
  - 4- Corian top
  - 5- INOX sink with INOX armature
  - 6- Drawers and closets under the top
- U shape sitting area
- 40" LED TV, SONY or SAMSUNG
- Closets at starboard side
- Artificial parquet floors
- Modern stylish interior design
- Wipers, VETUS brand, 3 pieces
- Saloon entrance door: Aluminium aft hinged doors, with tempered glass
- Cockpit area including:
  - 1- Cocpit seat, Vetus brand, Skipper model
  - 2- Modern Dashboard
  - 3- Maretron tank level monitoring
  - 4- RADAR HD 4KW 48NM
  - 5- Raymarine GS12 x 2 Screens
  - 6- VHF Raymarine 260E
  - 7- RV2 i70 driver

#### I ENGINE ROOM

- Fixed fire extinguisher system
- Two escape route, one up to saloon, one back to crew cabin
- Cummins 300 HP x 2 Diesel Engines
- Generators: Cummins Onan, 13,5 kW, 1 pieces
- Batteries: Victron AGM type
- Converter, 2kVA, 24-220V
- Electric panels, AC-DC
- Aluminium paneling on floors, walls and ceiling
- Bilge pumps (in each compartment)
- Fire pump ( serves to hydrant on main deck, under back U seat)
- All cabins have split air conditioning system, capacity decided acc to calculations

#### CAMERA SYSTEM

- Rearview Camera at aft deck
- Engine Room Camera
- Portside Camera



# PROPULSION SYSTEM OPTIONS - GREENAVAL 60

## a) Full Green Option

Main engine: 150kW x 2 electric motors

Solar panel: 3kW/day

Wind: 480w/day

Max speed: 11,5 knots

Cruise speed: 6 knots

Fuel consumption: 0 L/h

## b) Electric Engine

Main engine: 150kW x 2 electric motors

Generator: 150kVA x 2

Maximum speed: 11,5 knots

Cruise Speed: 7 knots

Fuel consumption (max. speed): 0-12 lt/h

## c) Hybrid System

Main Engine: Volvo Penta D3-300 x 2

Electric Motor/Generator: 150kW PM x 2

Generator: 30kVA x 2

Maximum speed: 13 knots (on diesel)

Cruise speed: 7 knots

Fuel consumption with electric motor: 0-12 L/h

Fuel consumption with diesel motor: 80 L/h

## d) Diesel Propulsion

Main engine: Volvo Penta IPS600 x 2

Generator: 30kVA x 2

Max speed: 16 knots

Cruise speed: 9 knots

Fuel consumption (max.speed): 160 L/h

**As Naval Yachts**, it is our priority to provide high quality services in boat building. With a dynamic and professional team of Naval Yachts, we work to meet customer needs at the highest level. For best results, our naval engineers actively take part in both the project design process and the project management process. Every detail is completed in line with the engineering team.



**Antalya Free Zone**, where modern and advanced manufacturing processes are supported, is an important area standing out with its strong infrastructure. It is a highly reliable region which is located just beside ASB, cultural, touristic and entertainment places. It offers transportation convenience and opportunity to enjoy the city's advantage with its close proximity to the city center and airport.

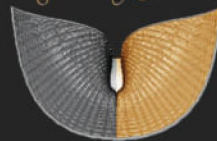
**Naval Yachts**, setting reliability and availability as its priority, ensures customer satisfaction by offering sophisticated design with the latest technology. In each project it carries out the design by focusing on the needs and requirements of the customers and reveals the dream boat of its customers in the leadership of their very own vision.





**NAVAL YACHTS**

*Providing Luxury Yacht Solutions*



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