

MULTIPURPOSE MARINE PLATFORM

Recyclable and Sustainable



MARCELO PENNA ENGINEERING
work vessels & offshore engineering

your naval partner for your challenging projects

THE IDEA

PHILOSOPHY

This Project has been developed looking for a common platform for the following activities:

- Fishing
- Diving center
- Aquaculture
- People transportation
- Hydrographic & port operations
- ROV's Support

ADAPTABLE WITH GREEN PROPULSION SOLUTIONS

Vessels available with hybrid or full electric propulsion / easy switch from a hybrid propulsion to a full electric propulsion in a second phase

PLATFORMS

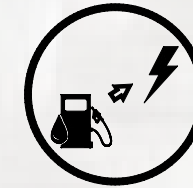
	MP 1700	MP 2400
Length (m)	17.10	24.34
Beam (m)	5.90	7.00
Draft (m)	2.15	2.46
Depth (m)	2.72	4.00
Power (kW)	210	400

CHARACTERISTICS



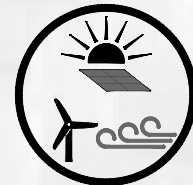
Best compromise between:

- Stability
- Resistance
- Seakeeping

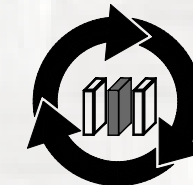


2 versions: (Both versions include azimuth propellers)

- Hybrid. diesel-electric
- 100% electric



Minimal impact due to solar panels and wind generators



Construction using recyclable and sustainable material (e.g. flax fibers) and environmental friendly construction technics



Almost zero maintenance and operating cost



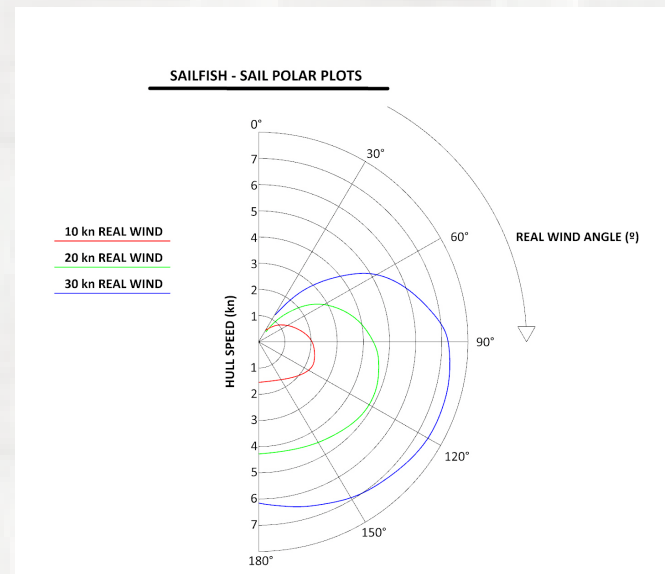
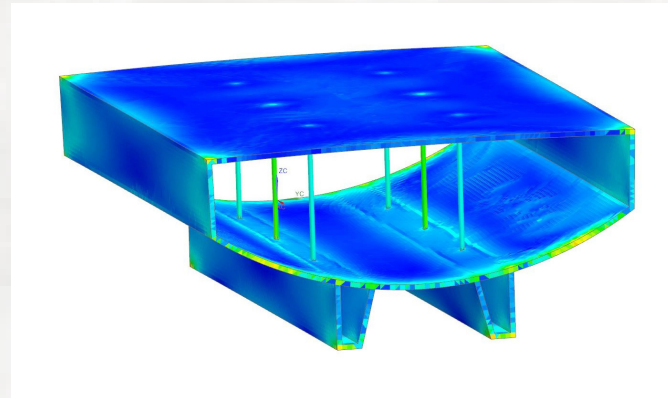
High Comfort and safety standards

PROFESSIONAL MODELS

FISHING



- Fish hold of 66 m3
- Trawling
- Seine fishing
- Fishing with a zero carbon footprint



WORKBOAT



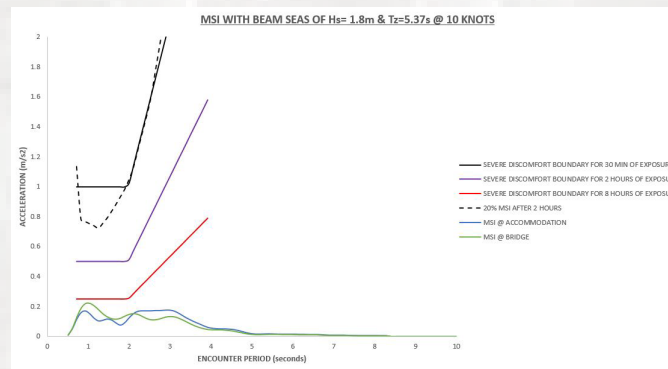
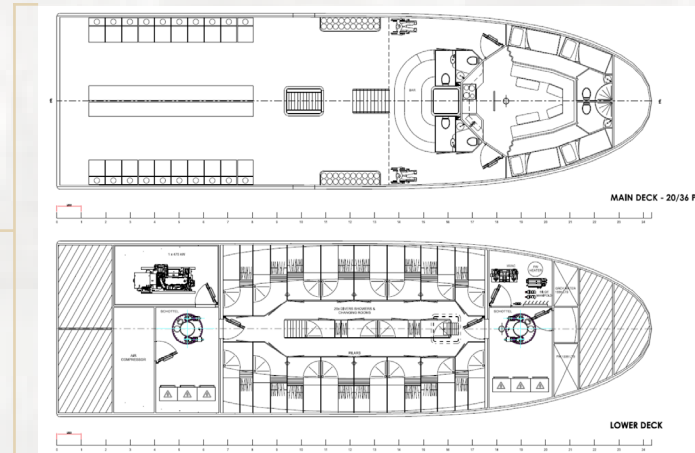
- Cargo till 10 tons
- High maneuverability due to its azimuthal propellers
- Cover a large range of operations thanks to its exceptional seakeeping capabilities and its large working area on deck

LEISURE MODELS

DIVING



- 20 single changing room with their own shower
- Perfect combination of a school and a diving vessel on the same platform
- Access to marine protected areas offering the passengers an unique and exclusive diving experience

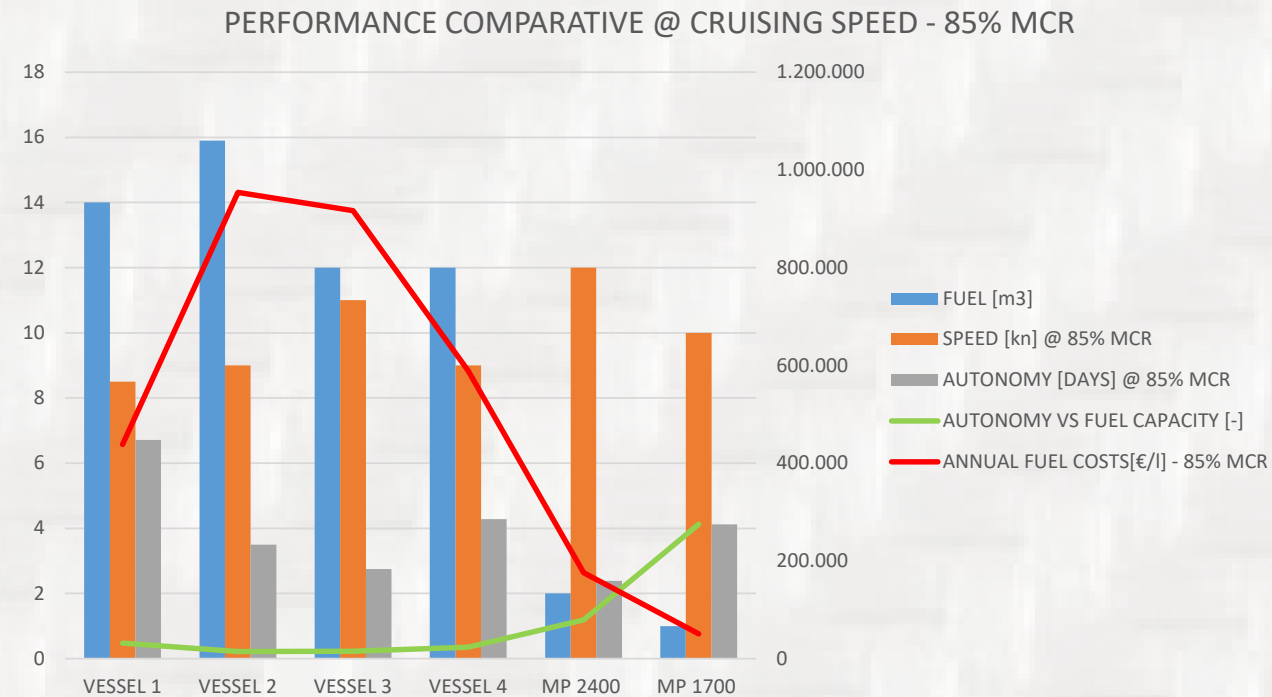


FERRY



- Submarine vision
- 300 passengers
- Bar
- Accessibility for people with reduced mobility

WHY MARCELO PENNA'S VESSELS ARE BETTER THAN THE COMPETITION?



	VESSEL 1	VESSEL 2	VESSEL 3	VESSEL 4	MP 2400	MP 1700
LOA [m]	19.2	30.2	25	23	24.3	17.1
B [m]	7.5	8.6	6.3	6.3	7	5.9
D [m]	4.7	4.87	2.5	2.8	4	2.7
T [m]	3.6	3.75	2.1	2.95	2.8	2.2
GT	165	335	68	61.6	85	34
FUEL [m3]	14	15.9	12	12	2	1
FISH HOLD [m3]	88	335	90	32	145.7	CARGO ON DECK
MAX SPEED [kn] - 100% MCR	9.3	10.5	14	13	14	12
CRUISE SPEED [kn] - 85% MCR	8.5	9.0	11.0	9.0	12	10
POWER [kW]	360	400	596	672	400	210
GENERATOR [kW]	100	500	150	19	475	250
MATERIAL	STEEL	STEEL	GRP	GRP	SANDWICH (LINEN & RED CEDAR WOOD)	SANDWICH (LINEN & RED CEDAR WOOD)