

BALANCED WAVE ENERGY CONVERTER

BWEC® - Presentation of system principles
December, 2018

BWEC® particulars



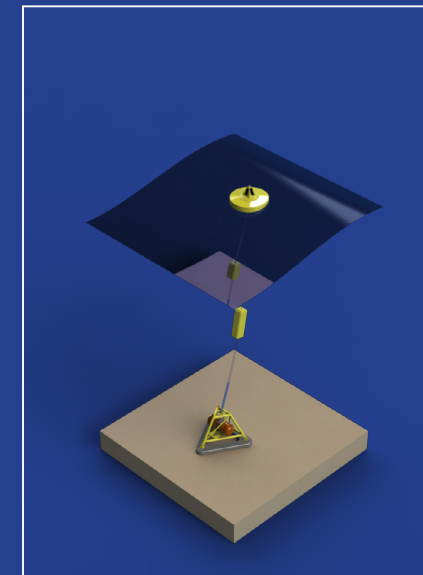
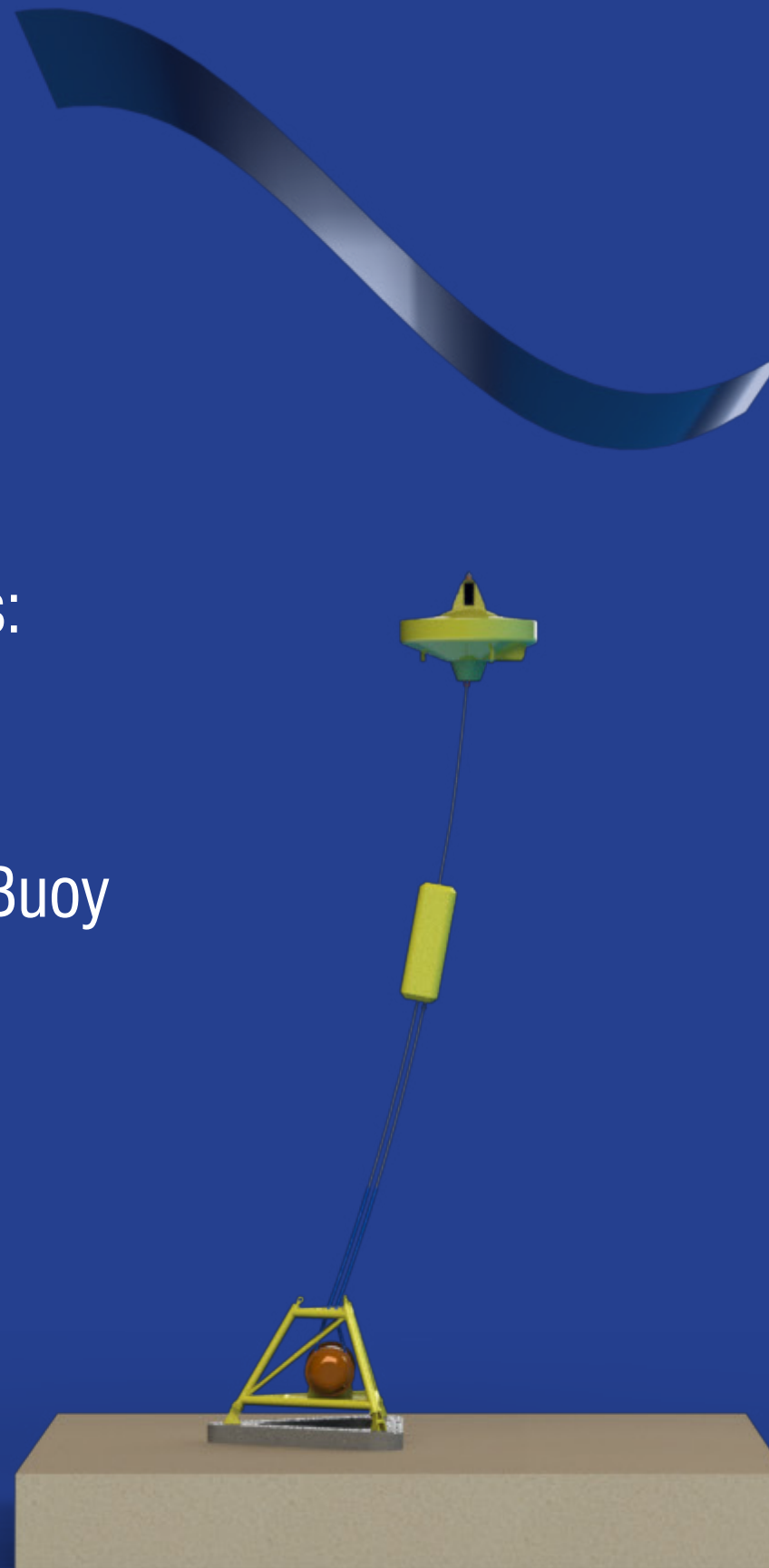
Sea depth
20m – 40m.

Power production
50 kVA per buoy.

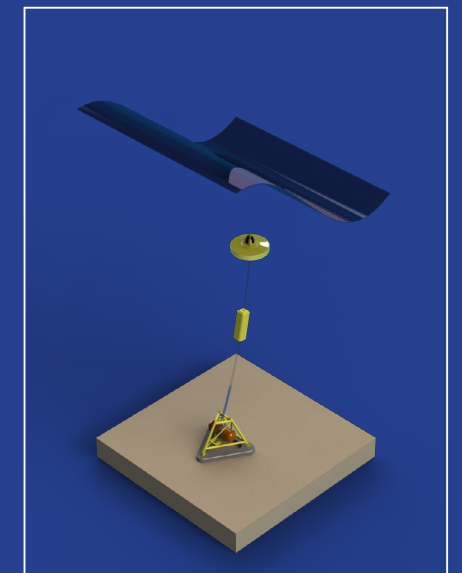
Designed to ensure reliable
operation.

Three main parts:

- Storm Buoy
- Submerged Buoy
- Seabed Unit

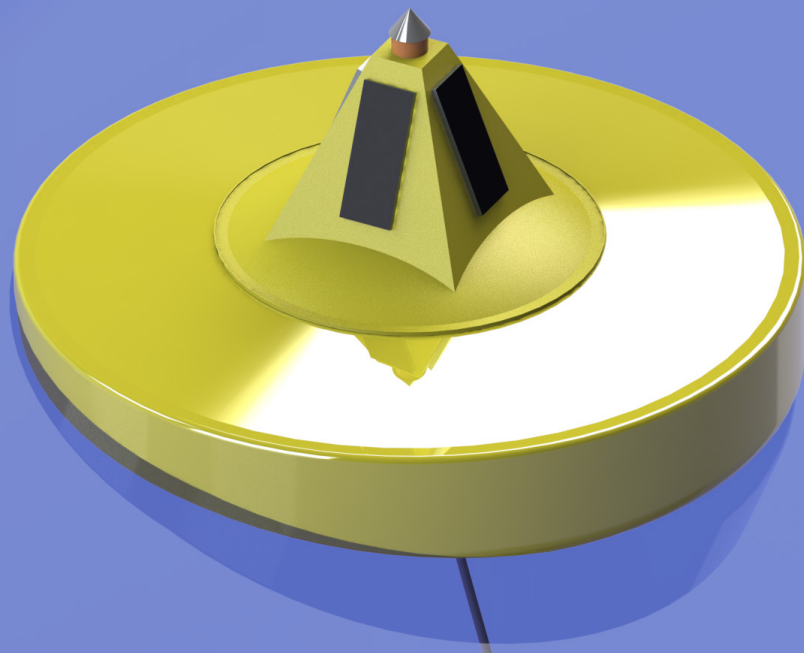


Standard weather.
Normal operation.
Storm Buoy deployed.



Extreme weather.
Emergency operation.
Storm Buoy retracted.

Storm Buoy



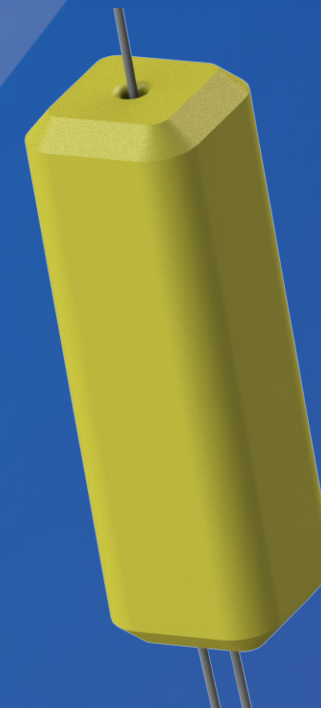
Main parts:

- Compartment of strong GRP
- Winch
- Water ballast system
- Storm Buoy Control system
- Power system for the control system and winch.

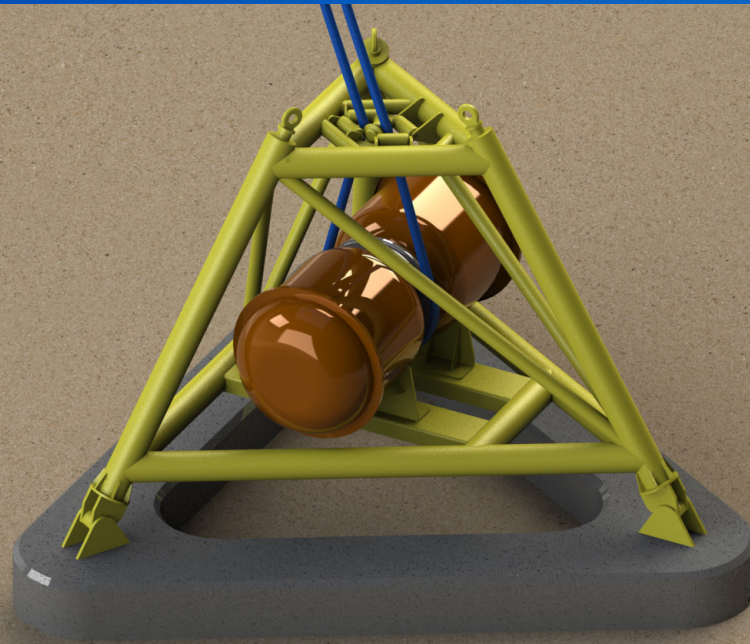
Submerged Buoy

Main parts:

- Standard buoy approx. 3m^3
- Modified to the concept



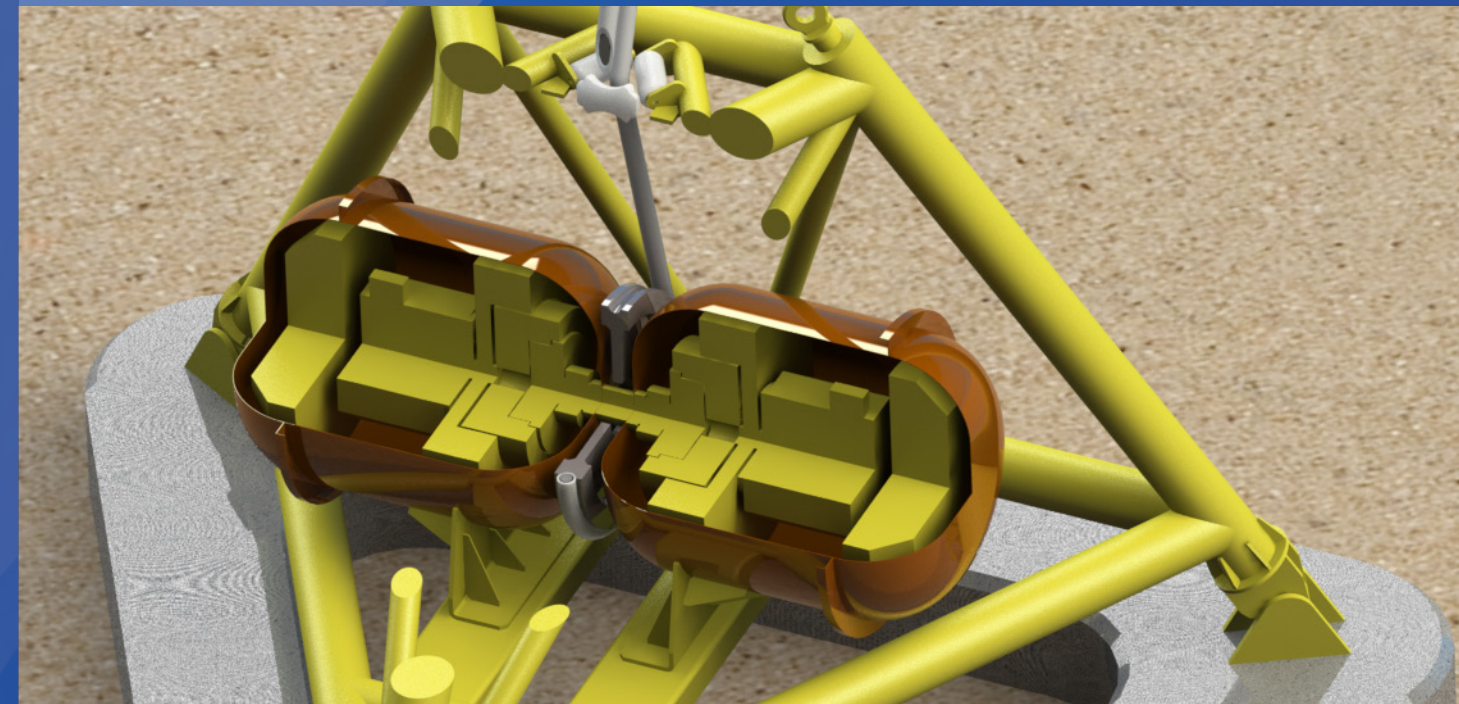
Seabed Unit

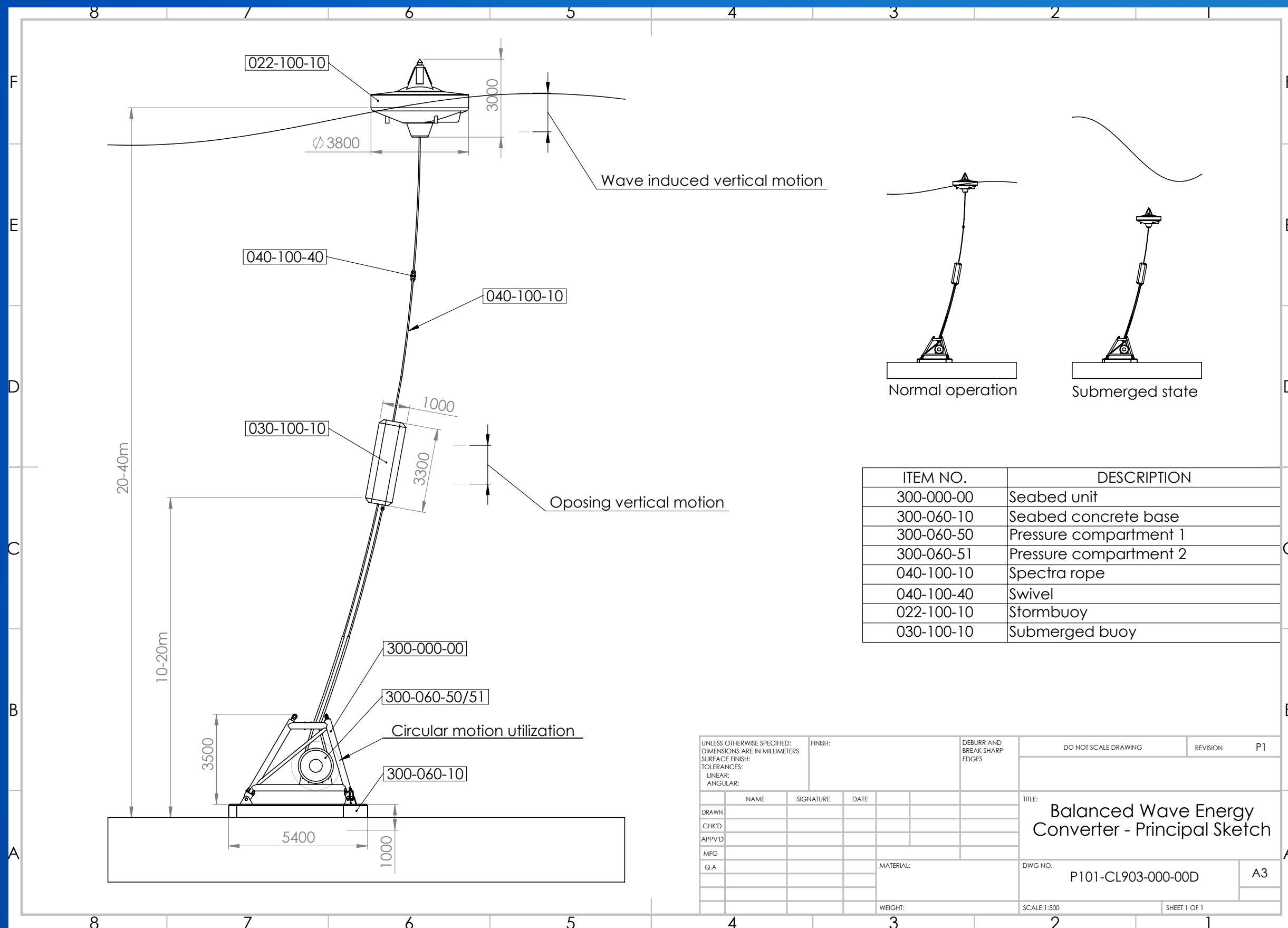


Main parts:

- Strong steel structure with quick release maintenance system.
- Concrete base foundation aprox. 30 tons.

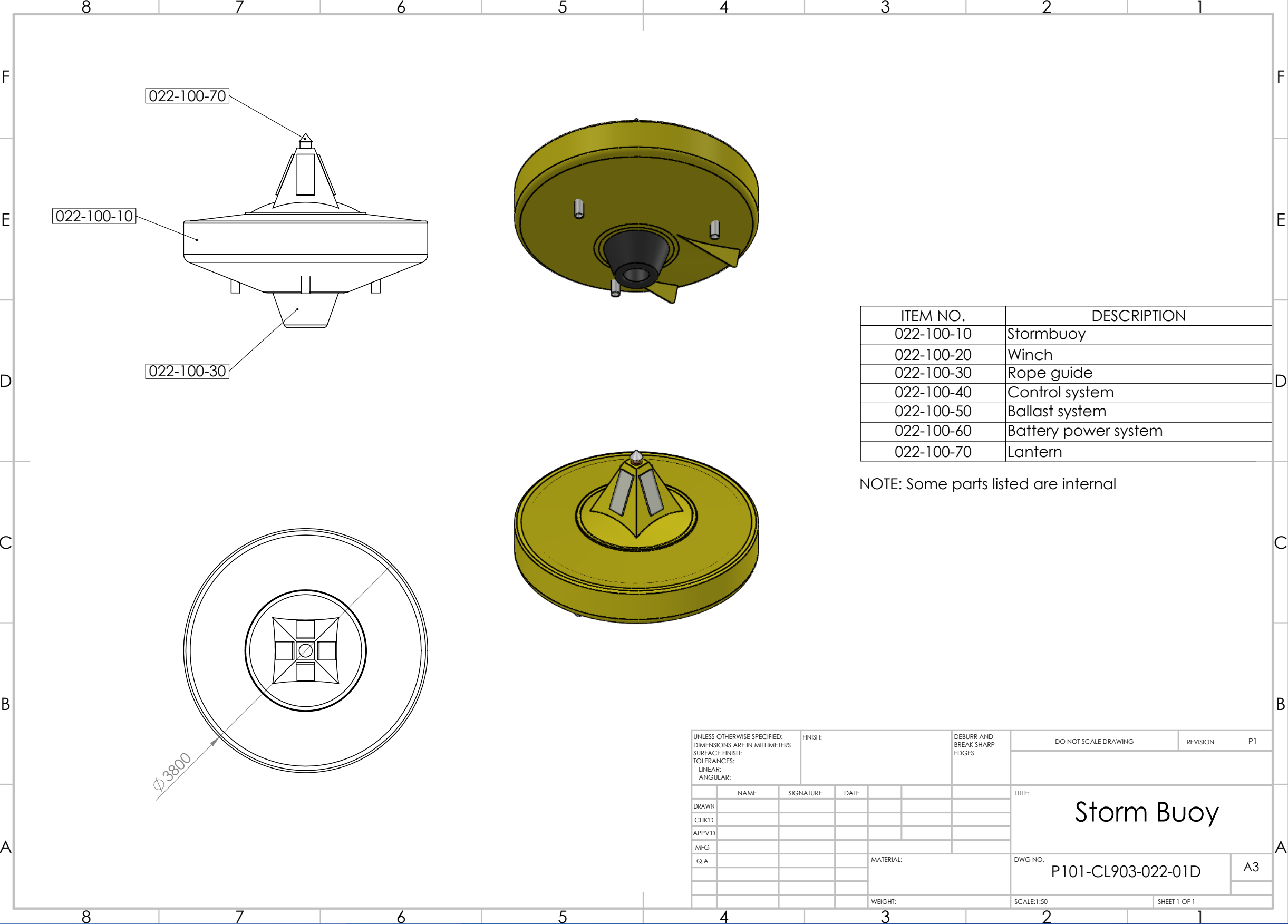
- Two pressure compartments, each with a 25 kVA generator connected to a sheave by a shaft.



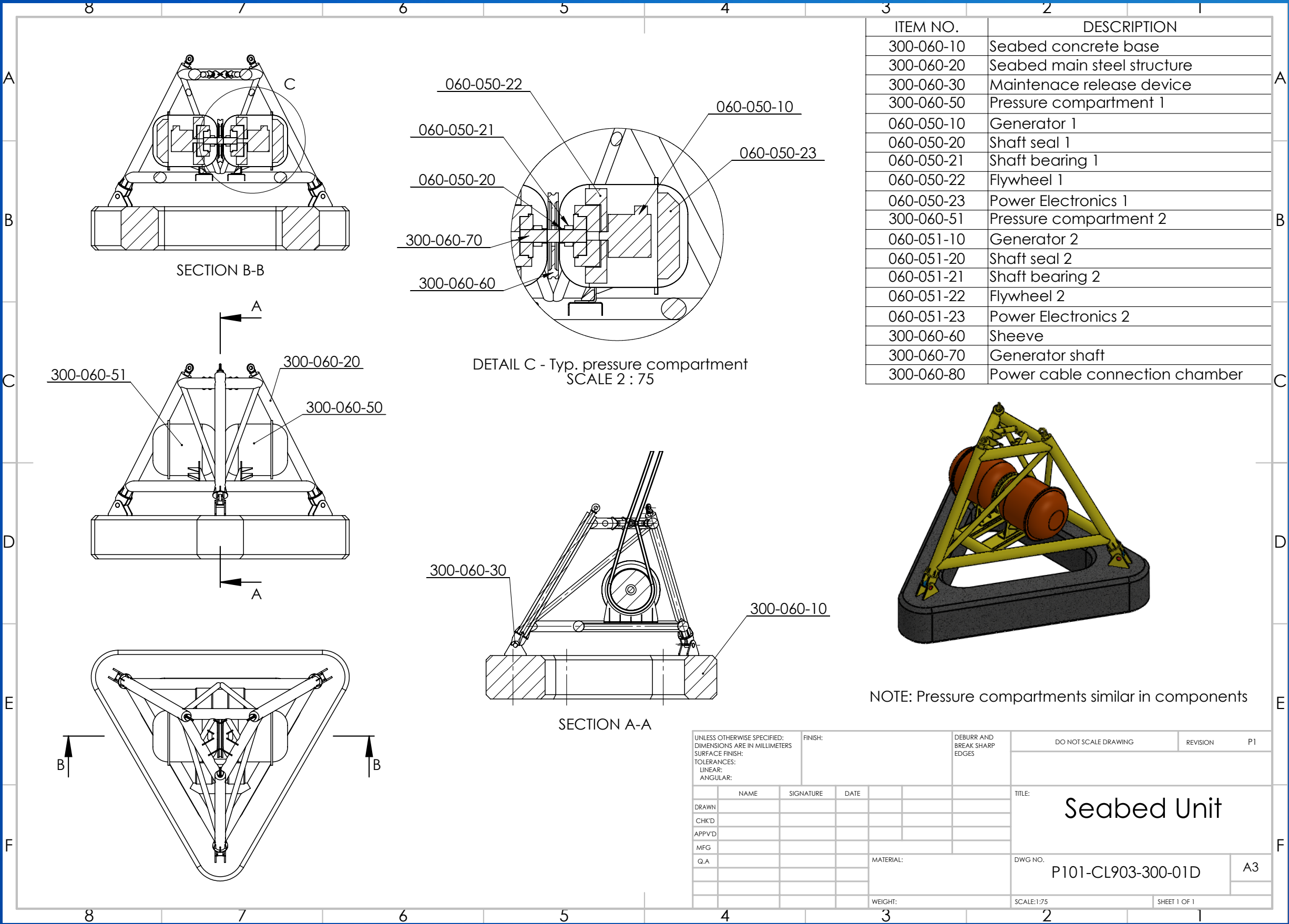


BWEC® system
principal sketch

Storm Buoy outlines
and systems



Seabed Unit
system components





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