

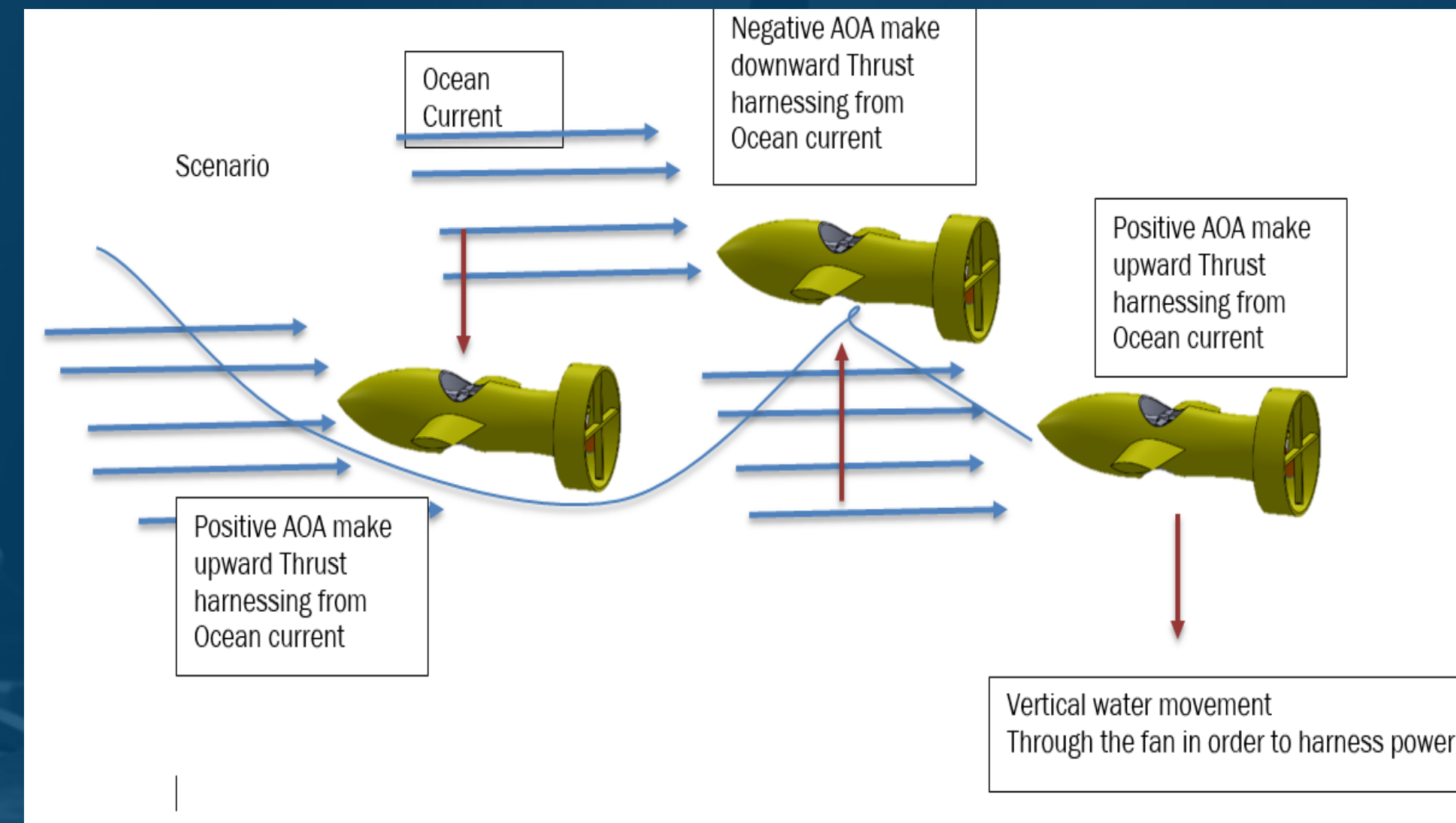
Ideas Brain

Description

AUV contains Power generating unit, which harnesses the Ocean current energy while it moves under the water. AUV wings are used to create upward and downward movement and capture the current energy in the process. When AUV wings has positive Angle of Attack (AOA) AUV move upward due to lift generated by ocean current. When the AUV is near water surface it will decent by creating negative AOA by changing the incident angle of hydro foil. When AUV travels up and down, while cruising in ocean, the water flowing around the Generator propeller will generate energy. Due to high density of ocean water generator harvests enough energy to recharge AUV while cruising. This system harnesses power from the positive Ocean current and AUV speed of 6Knot can be maintained .RTK GPS based localizing and Wireless charging used as recharging at Buoyancy

Team

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Dry Weight

120kg

Number of System
Bodies

1

Wave Energy
Conversion Method

Ocean Current

Max Length

1600.mm

Max Depth

50m

Total Energy
Storage Capacity

1207Wh

Average Recharge
Power

18W to 200W