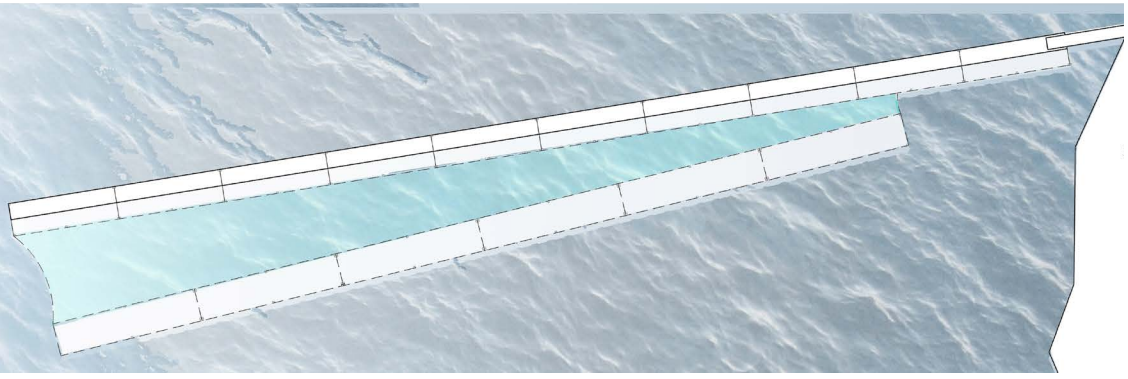
ENERGY BEACH

SPEED INCREASING MECHANISM
high tork and slow rotation are converted to low tork and fast rotation to run the generator

COMPUTER CONTROLLED RIGGING SYSTEM
to keep the water level even the cable rigging speed is synchronised maintaining the stability and level of the pontoon

The computer controlled height synchronizing system aligns the pontoons, allowing the vegetation and water level to remain at a constant level. The electrical generator has a speed increasing mechanism to transfer the force of lifting to rotation.



CALCULATION of POWER GENERATED

Volume above the water level
3.0m x 70.1m x 18.6m x 103 x 33 pontoons= 1.29 x 108 kg

Buoyancy (the floating power)
9.8 x 1.29 x 108 kg = 1.26 x 109 N

Potential energy between low tide and high tide
2.5 m x buoyancy =3.15 x 109 J

Electric energy (90 % efficiency) generated twice a day
3.15 x 109 J x 0.9 x 2 times = 5.7 x 109 J / day