



Student Activity

2 SEPTEMBER 2024

Discussion Points

- ▶ What are the resources of marine energy?
- ▶ What is a tidal bulge? *high tide on the side siding towards the moon
b/c of moon g - $g_{\text{moon}} > g_{\text{sun}}$ effect*
- ▶ What are the differences between tidal current and ocean/marine current?
close to shore mostly sun $g \rightarrow$ rise *constant & flow in 1 direct.*
- ▶ How do we calculate the power potential of wave energy? *$P = 0.98 h^2 T$*
- ▶ What are the systems of OTEC power plants? *open \rightarrow steam removed after condensed
close
hybrid*
- ▶ What is RED in salinity gradient conversion method?

*temp, current, tide
wave, geolint*