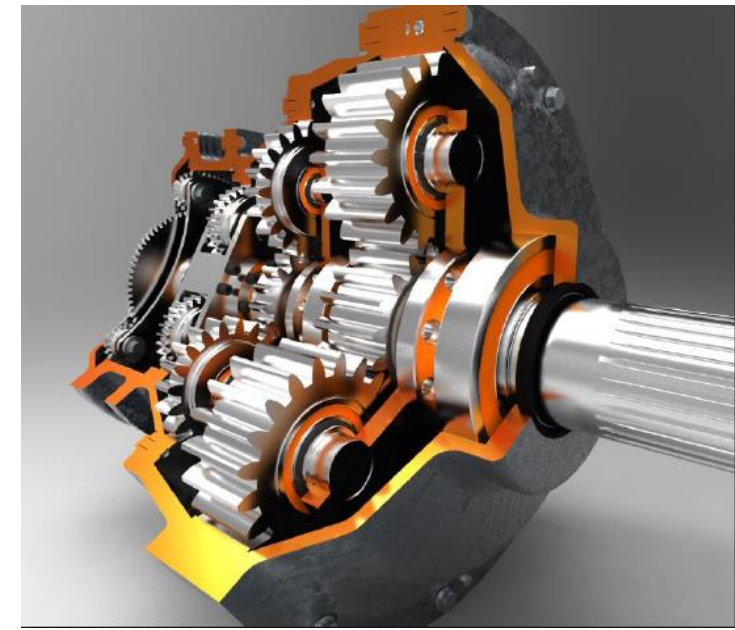


# Surface Powered Energy



**Team:** Thomas Elliott, Adam Zeman, and potentially..... YOU!!

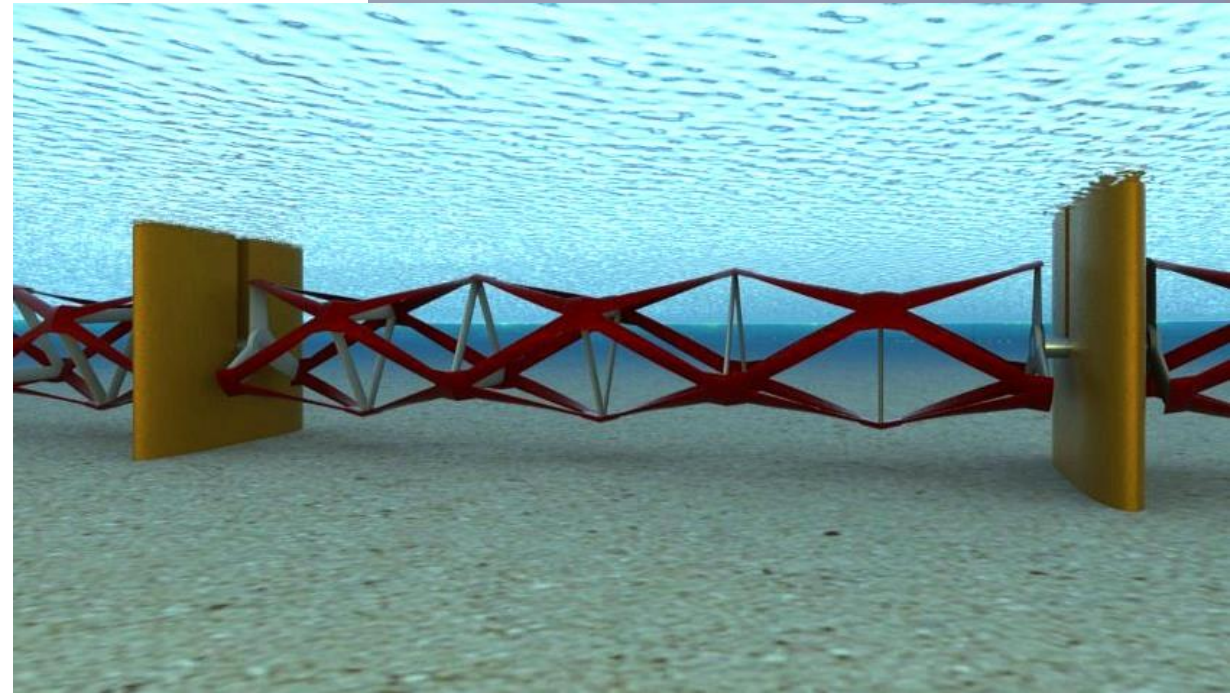
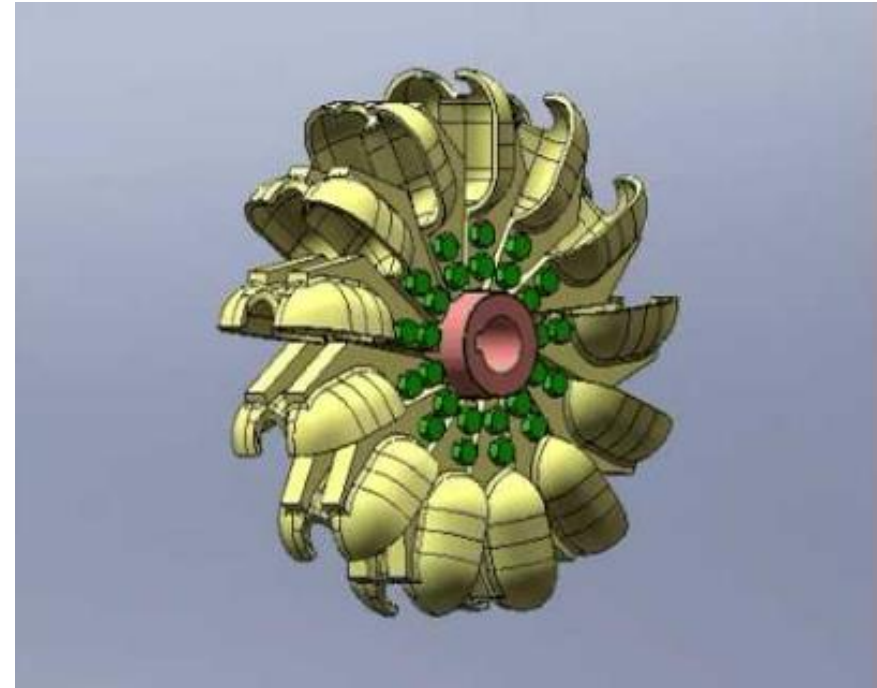


# Our Mission:

To connect with cleantechsd to test alternative energy designs that can replace invasive dams.

## Our Goals:

- Energy/Torque Analysis comparisons of new designs.
- 3D Print Prototype
- Develop optimal fluid dynamic flow conditions and test efficiency



# History

- Water Wheel
  - Pelton Wheel
- Transverse Horizontal Axis Water Turbine (THAWT)
  - 3125 m<sup>3</sup>/s generating 5.3 MW
- High gear ratio from epicyclic gearing allows low flow & high output

