

An aerial photograph of a massive tidal wave in the Bay of Fundy, showing the water's surface with intricate, swirling patterns of blue and white. The wave is moving from the top right towards the bottom left of the frame. The sky is overcast and grey.

energy everywhere

**Bay of Fundy – Minas Passage  
In Stream Tidal Demonstration Project**



# In Stream Tidal Demonstration Project

- A Feasibility & Research Undertaking to Determine if the Production of In Stream Tidal Energy can be Successful Employing OpenHydro Technology.



# Key Objectives

- Observe and appraise the impact, if any, the OpenHydro In Stream Technology has on the local subsea environment and aquatic species.
- Evaluate the performance of the Tidal Unit's mechanical and electrical systems and structural components.
- Characterize the tidal resource, i.e. MWh's and capacity factor.
- Evaluate the survivability of the unit and gravity base in the Bay of Fundy.



# In Stream Tidal Unit and Sub Sea Gravity Base



# Specifications

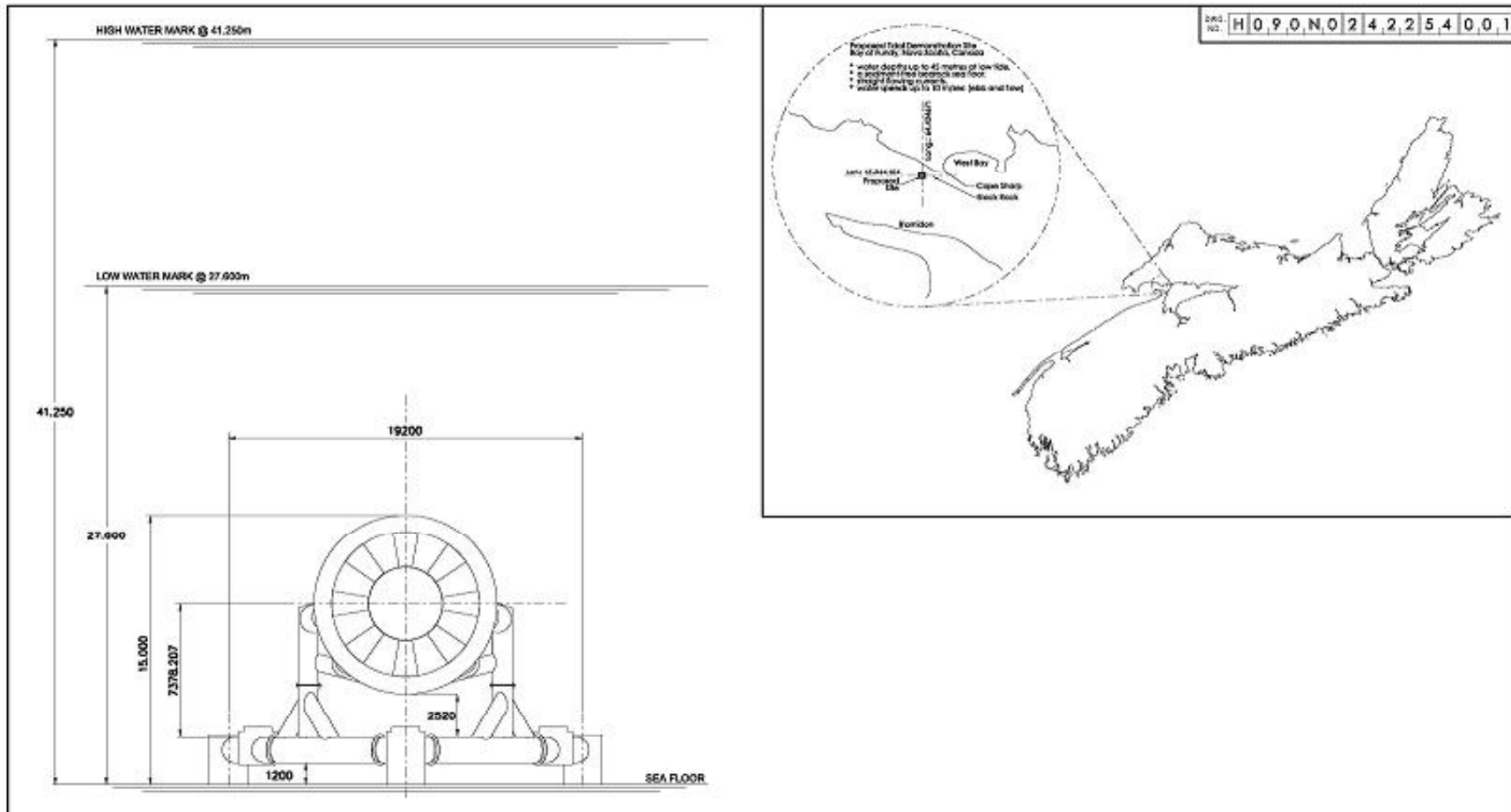
- Permanent Magnet Electrical Generator
- Incorporates a 4 meter diameter circular open centre
- 1 MW of Capacity
- Turbine is 10 Meters in Diameter
- Subsea Gravity Base ~ 20 Meters in length across the back of the triangular shape
- Overall height of structure is ~ 15 meters
- Unit rotates in both directions (flood and ebb tide) from 0 to a max of ~ 15 to 20 RPM



# In Stream Tidal Unit

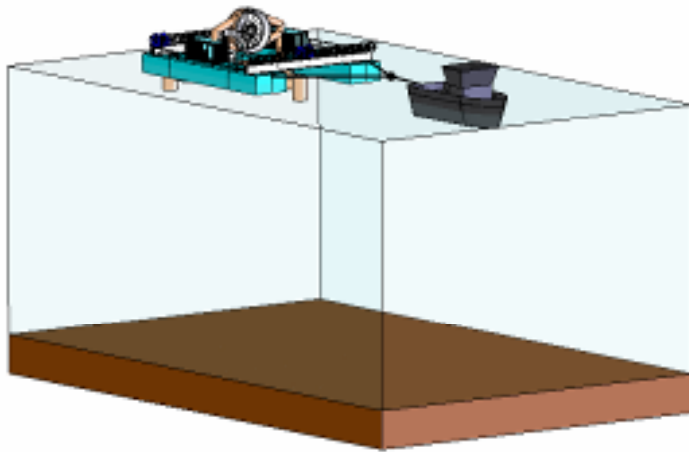


# Deployment ~0.5 km West of Black Rock

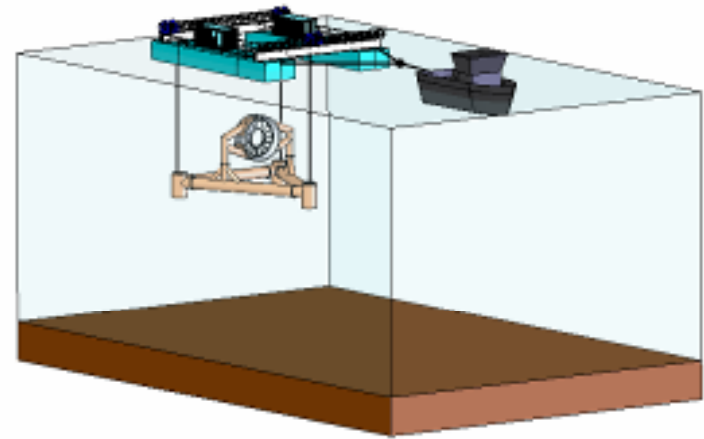


# Turbine Assembly Deployment

Barge & Turbine Assembly  
Towed to Deployment Site

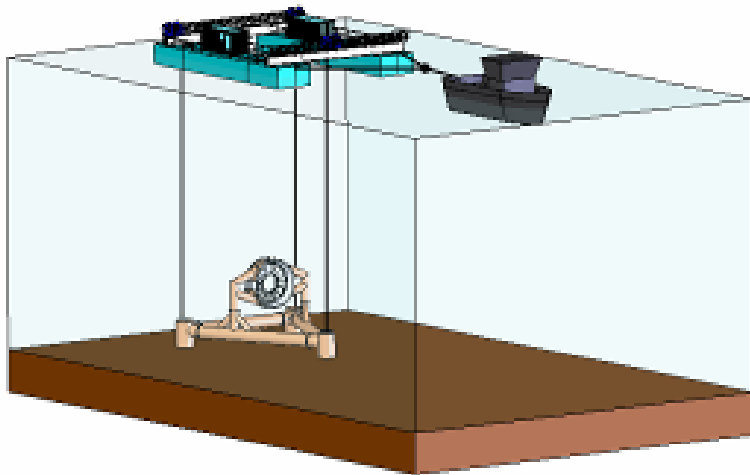


Turbine Assembly Lowered by  
Cables to Sea Floor

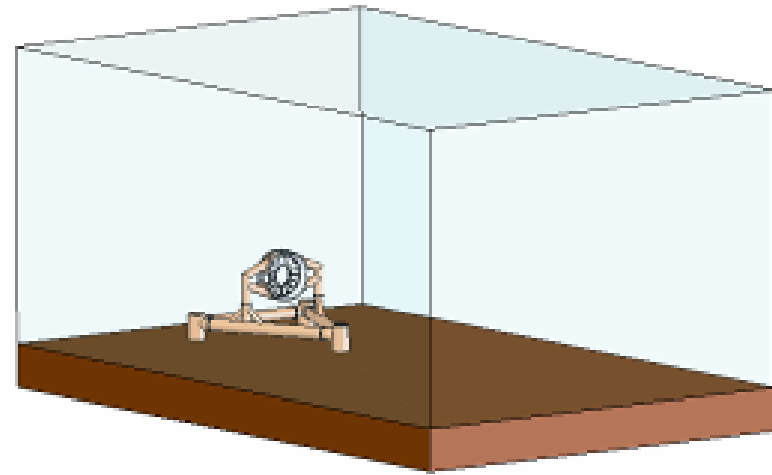


# Turbine Assembly Deployment

Subsea Gravity Base Rests on  
Sea Floor



Tug & Barge Return to Port



Deployment is completed during  
1 Flood Tidal Cycle



Thank you

