



Innovations from Canada

Tidal Energy

By:

Glen Darou, President and CEO

Clean Current Power Systems Incorporated

May 24, 2007

New Energy Corp.

**Vertical axis “EnCurrent” turbine based
on Davis hydro turbine research**

Tested 3 kW and 5 kW prototypes

**Currently designing turbine for Canoe
Pass demonstration project**



Blue Energy Canada

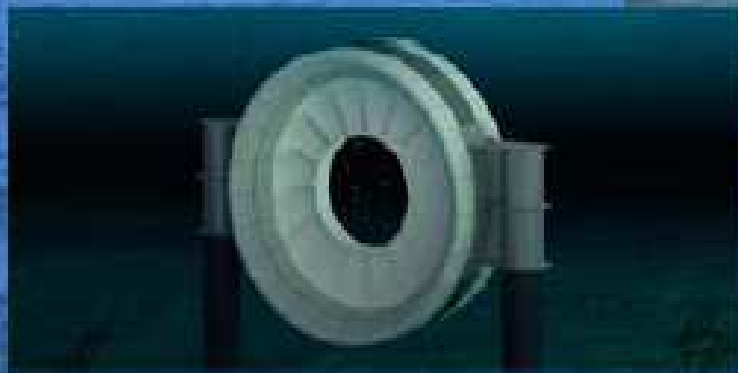
Took on commercialisation activities after early Davis hydro turbine testing

Final prototype testing in UBC tow tank as part of WD agreement

Completing details on demo project for later this year

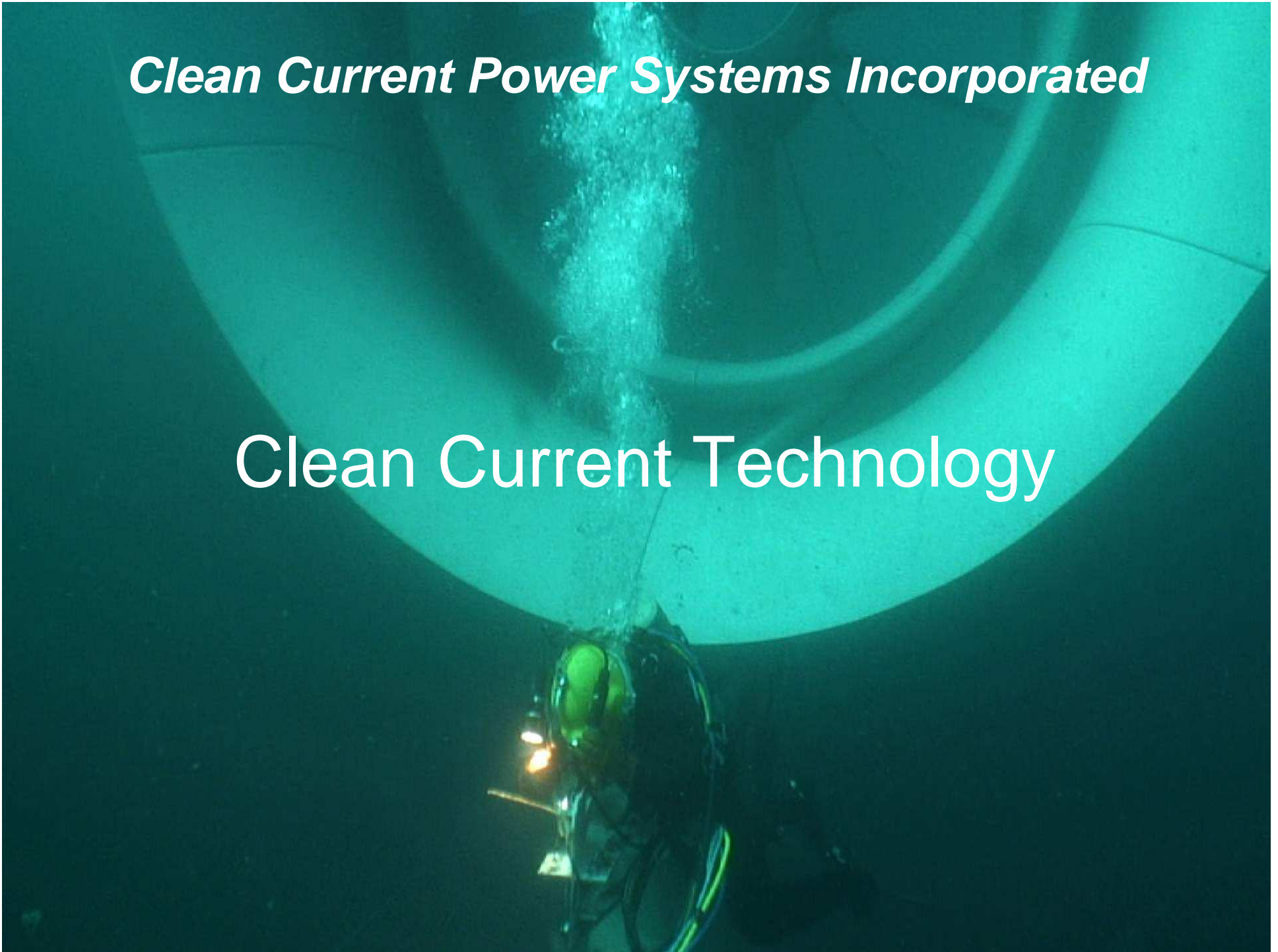


International tidal device developers

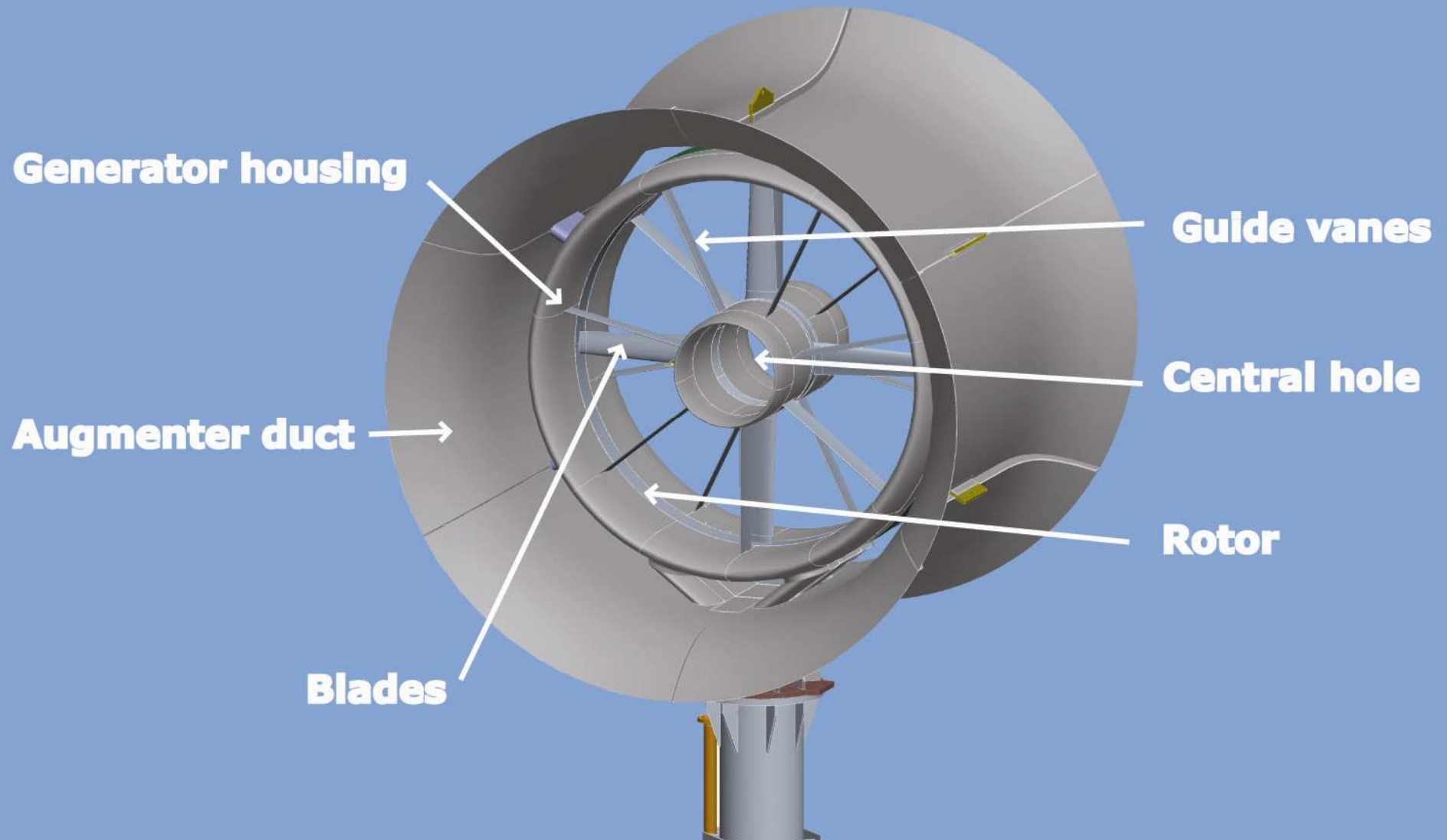


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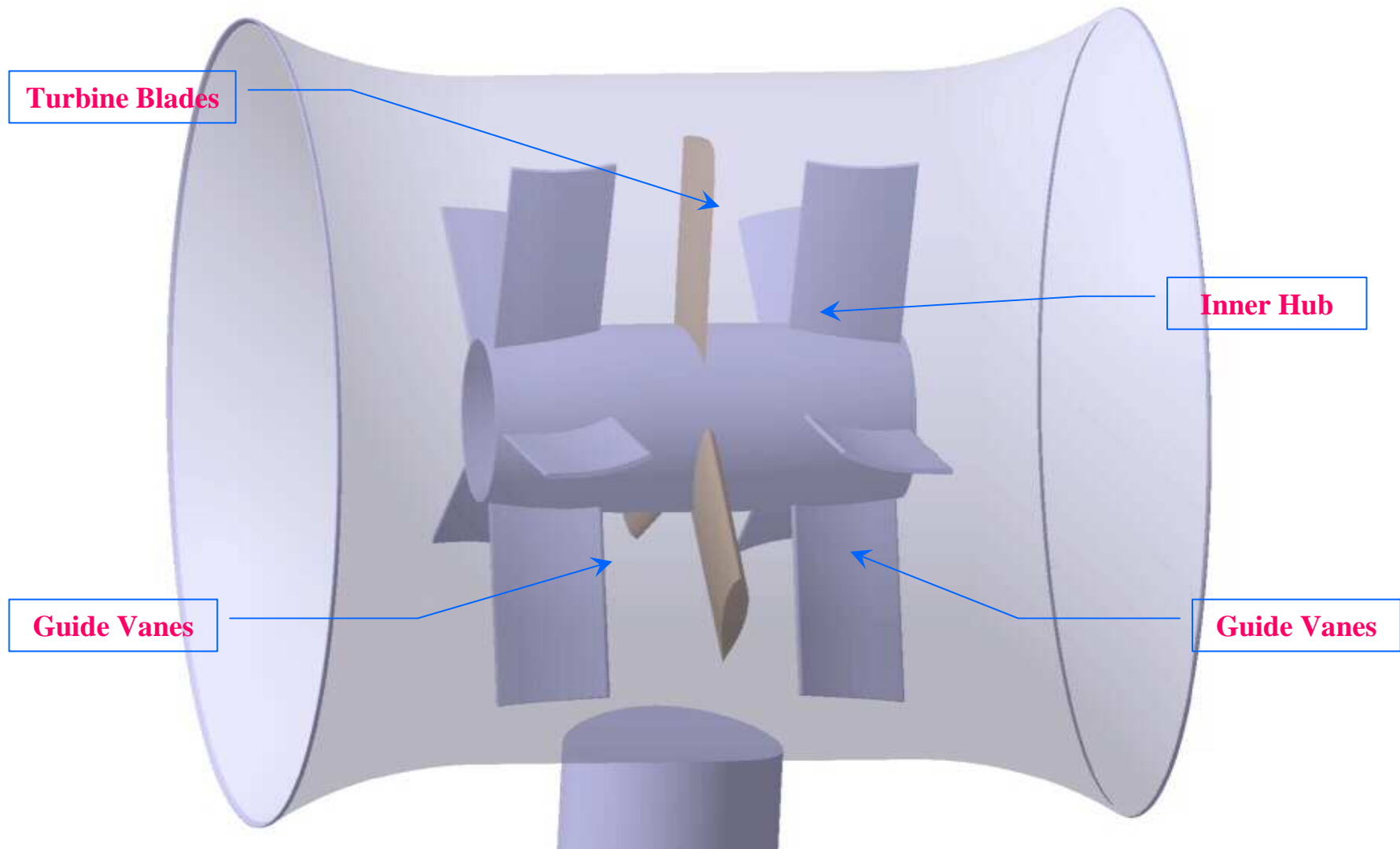
Clean Current Technology



Clean Current Tidal Turbine Generator

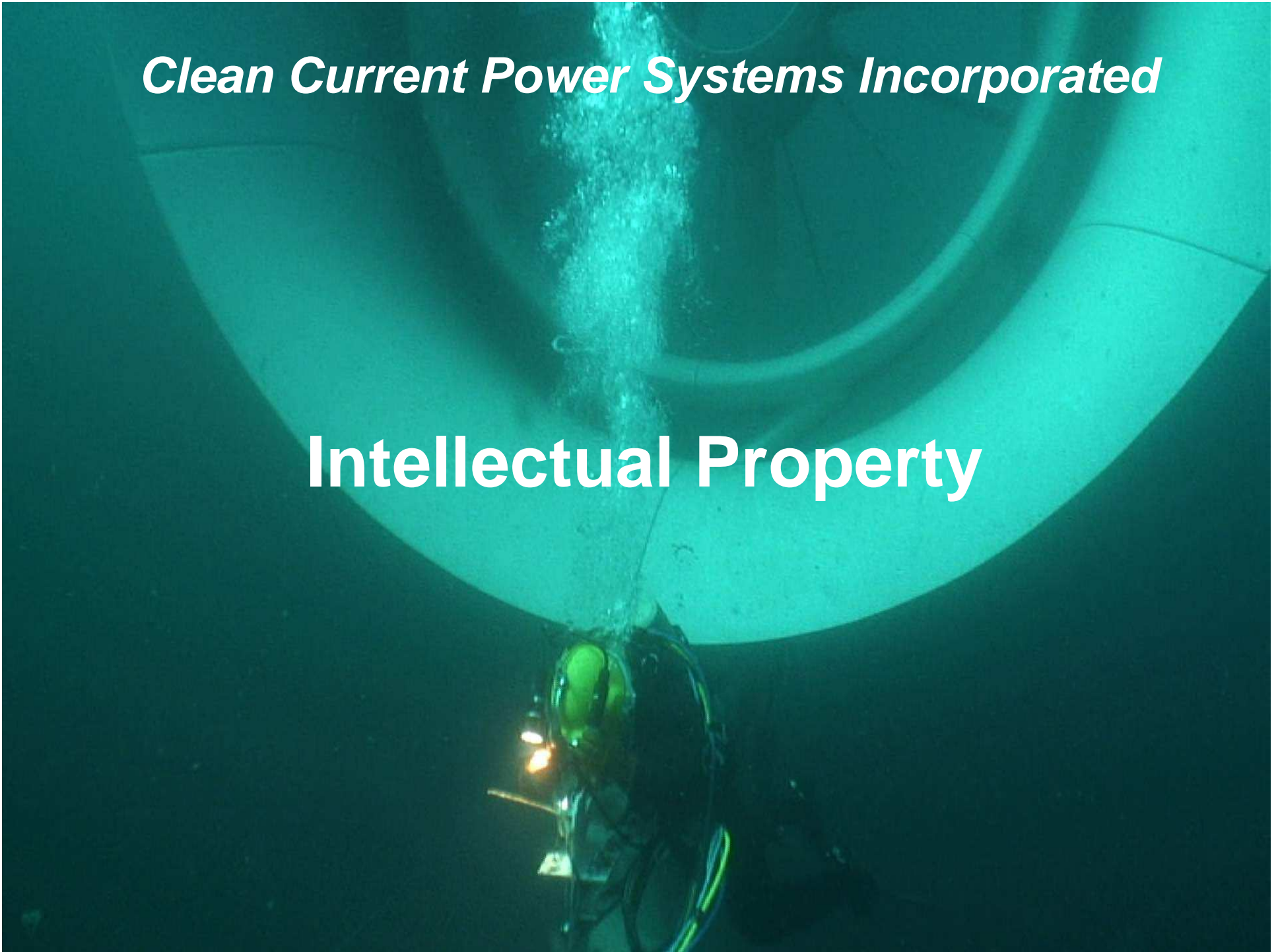


Tidal Turbine Generator Side View - Transparent

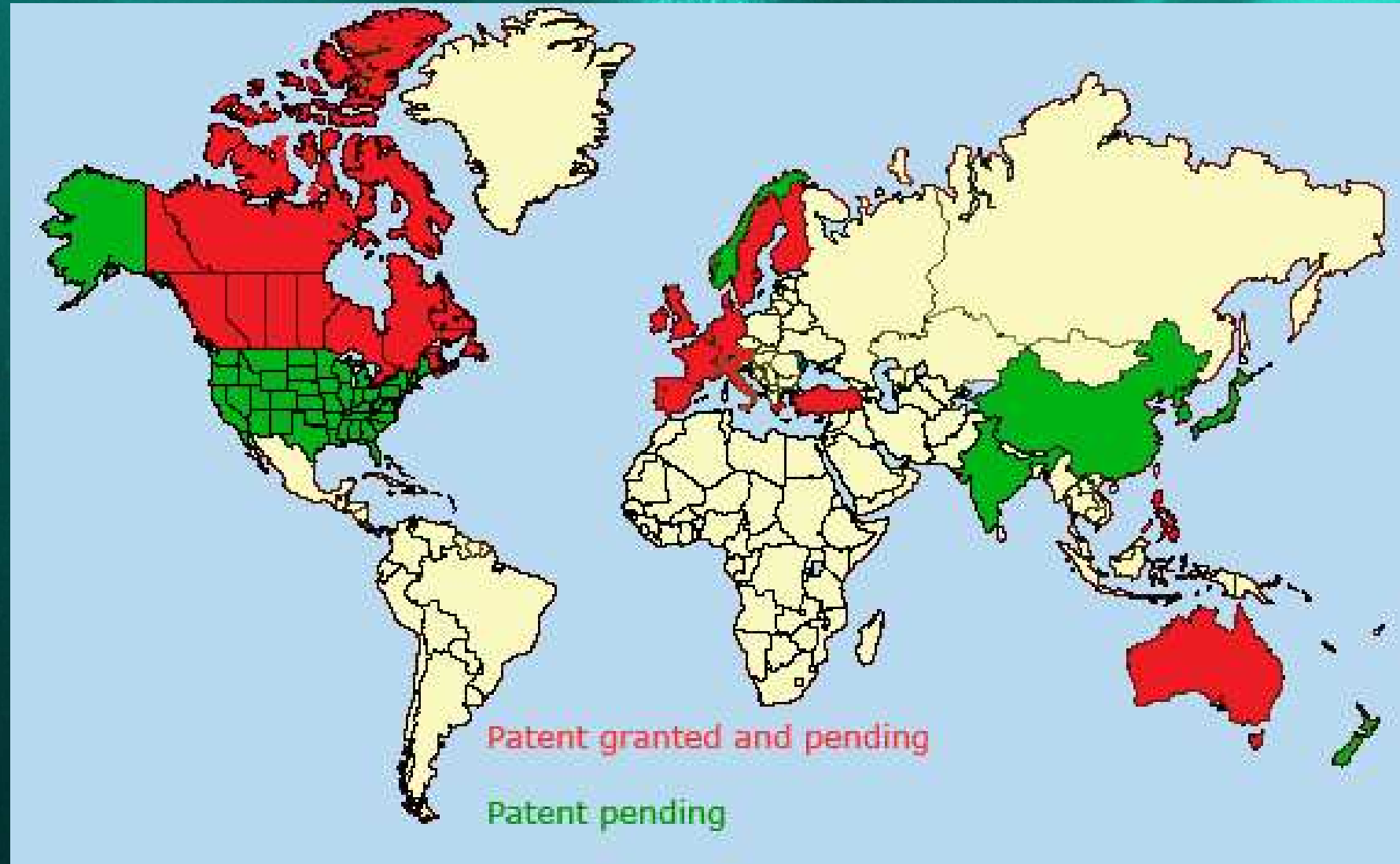


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Intellectual Property

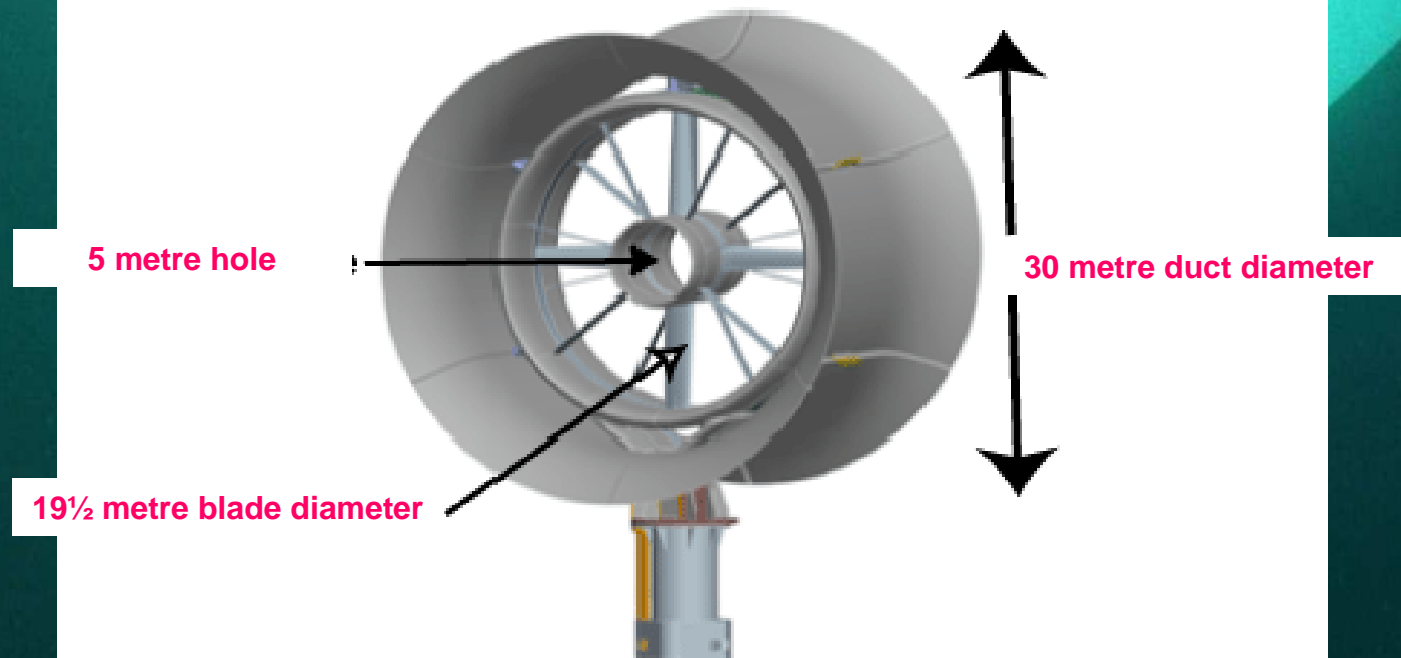


Patent Applications



Clean Current Commercial Scale

Tidal Turbine Generator Dimensions



Clean Current Commercial Scale Tidal Turbine Generator



Specifications

- **Blade diameter – 19.5 metres**
- **Generator rating – 2 MW at 3 m/s**
- **Design life – 10 years**
- **Service life – 25 years**
- **Rotor rpm at 3 m/s – 9.5**
- **Starting velocity – 1 m/s**
- **Maximum velocity – 4.5 m/s**

An underwater photograph showing a large, white, curved structure, likely a tidal turbine, with a diver visible below it. The scene is dimly lit, with a strong blue-green tint. The diver is positioned at the bottom center, looking upwards towards the turbine. The turbine's surface is smooth and curved, with some structural lines visible. The water is dark, and there are some bubbles or light reflections near the turbine.

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Race Rocks Tidal Energy
Demonstration Project

Clean Current

Renewable Energy from the Tides













12M TON

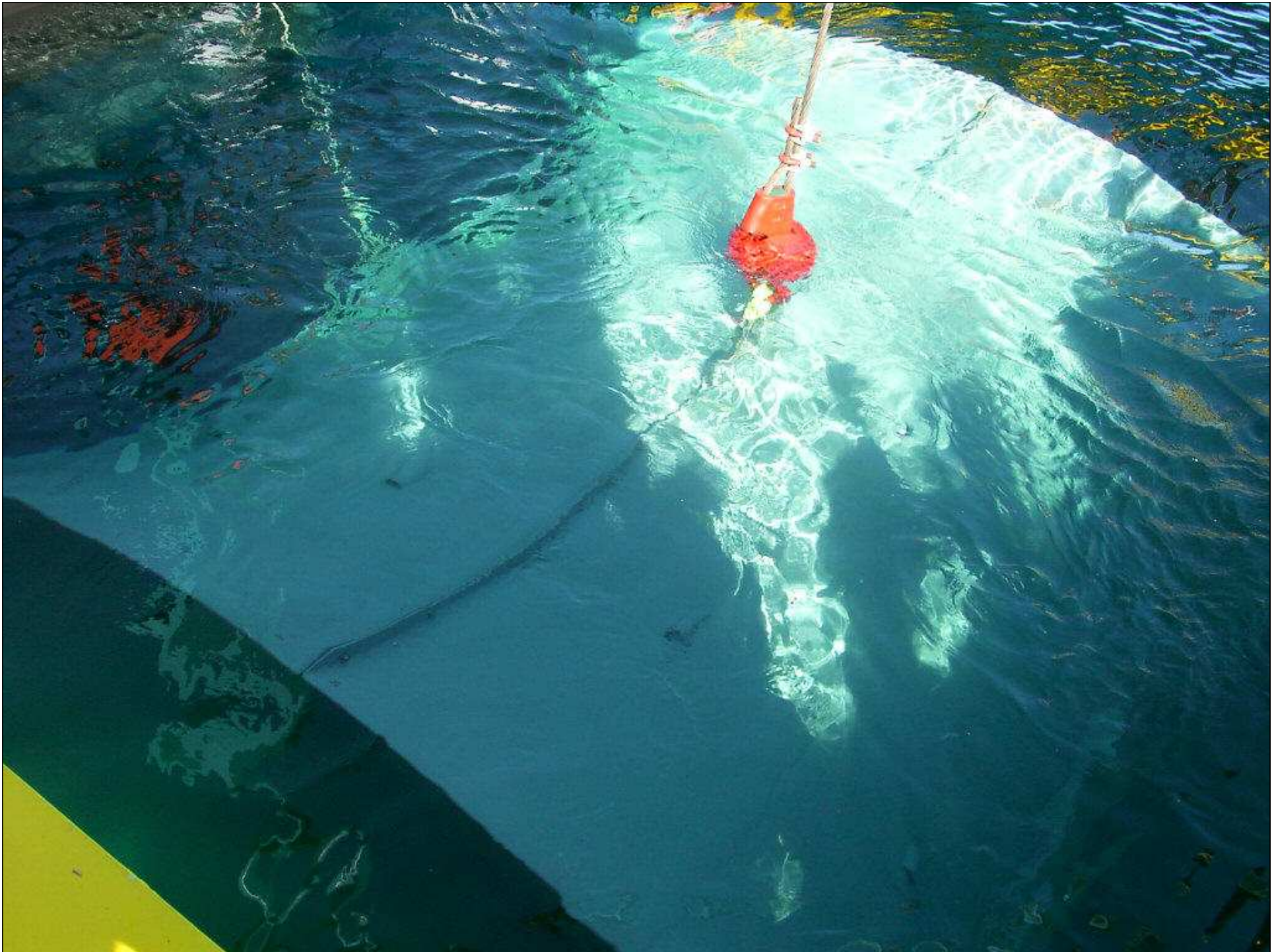
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MARIE

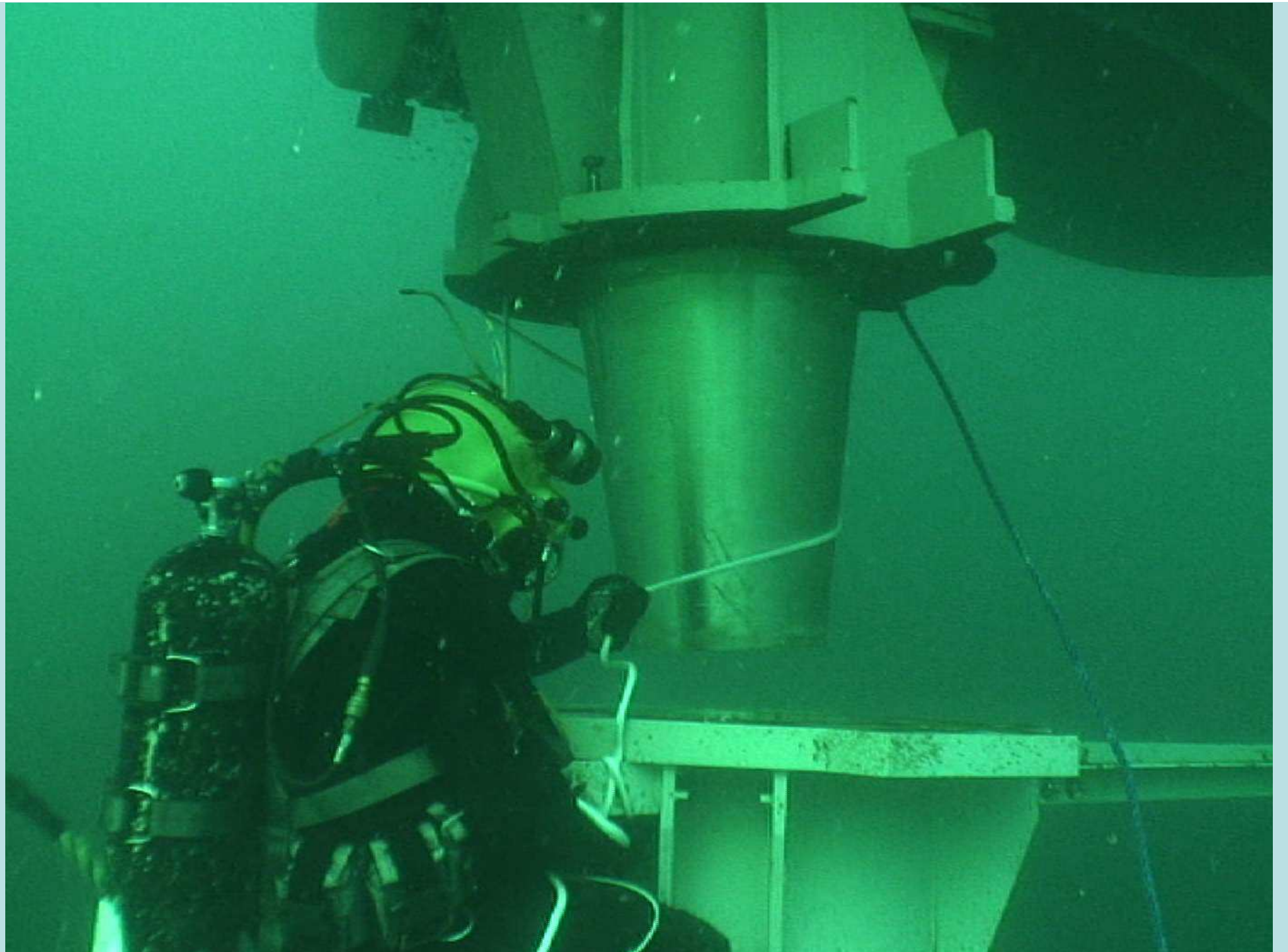
5M TON

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5M TON













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Canada

Prime Minister Stephen Harper



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PM UNVEILS ECOENERGY RENEWABLE INITIATIVE

19 JANUARY 2007

Prime Minister Stephen Harper today announced more than \$1.5 billion in funding for the ecoENERGY Renewable Initiative to boost Canada's renewable energy supplies.

[more...]

VIDEO CENTRE



19 JANUARY 2007
PM unveils ecoENERGY Renewable Initiative

4 JANUARY 2007
PM Harper strengthens ministerial team

31 DECEMBER 2006
Prime Minister Wishes Canadians a Happy New Year

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