

ABOUT MARINE RENEWABLES CANADA.

Marine Renewables Canada is the national association for tidal, offshore wind, wave, and river current energy, representing a membership of technology and project developers, suppliers, utilities, Indigenous organizations, researchers, and communities.

Since 2004, the association has worked to build the sector by advocating for supportive policies, identifying domestic and international business development opportunities for its members, facilitating collaboration amongst its membership and broader ecosystem, providing education and outreach, and disseminating market intelligence. As part of its focus on developing the sector, Marine Renewables Canada is active in catalyzing opportunities for how marine renewable energy can contribute to achieving decarbonization goals through the production of green fuels such as hydrogen, as well as displacement of diesel in remote communities and marine industries.



MARINE RENEWABLE ENERGY IN CANADA.

Marine renewable energy from tides, waves, rivers, and offshore wind has the potential to drive Canada's blue economy in a way that no other ocean sector can.

As the sector advances, Canada generates more clean power, reduces emissions, slows ocean acidification, sea level rise and coastal erosion, revitalizes and grows the ocean industry supply chain, and supports the ocean industries' transition to net zero. Marine renewable energy technologies have the ability to generate electricity and fuels that can power marine transportation, aquaculture, and offshore oil and gas.

The outlook for marine renewable energy in Canada is promising. **Canada has some of the world's best marine renewable energy resources**, with tidal energy alone having an estimated potential of 40,000 megawatts (MW): enough clean power to displace over 113 million tonnes of CO₂ (equal to removing over 24 million cars off the road). Adding wave and river, the potential climbs to 340 gigawatts, enough energy to power every home in Canada five times over. Offshore wind energy is just beginning to be explored and Canada is recognized as having some of the best offshore wind resources in the world.



BY THE NUMBERS



145,000 MW WAVE ENERGY POTENTIAL OFF ATLANTIC CANADA'S COAST



190 TIDAL SITES OFF CANADA'S COAST WITH **42,000 MW** POTENTIAL



ESTIMATED TECHNICAL POTENTIAL OF **938 GW** OFF NOVA SCOTIA'S COAST



340 GW POTENTIAL OF RIVER HYDROKINETIC ENERGY

LEARN MORE TODAY.

Learn more about Marine Renewable Energy and MRC's commitment to driving the industry forward at marinerenewables.ca.

NEW OPPORTUNITIES, NEW JOBS.

An extensive team of services and supply providers will be required to support each marine renewable energy project throughout its lifespan. **A range of skills, capabilities, supplies and services are needed at each project stage** including marine scientists and engineers, mechanical and electrical technicians, vessels, sensory instruments, divers, steel fabrication, manufacturing and supporting expertise such as insurance, legal, transportation, and financial services. There are many project requirements that can be fulfilled by transferring skills from other sectors such as offshore oil and gas, ocean technology, and marine operations.