

DEPARTMENT OF ENERGY USE ONLY

Date Received:	Application #:
Time Received:	Received by:
Date of Complete Application:	Processed by:

INSTRUCTIONS

Before you start: As you complete this application form, please refer to Section 4.4 of the [Application Guide](#) to ensure that all required information is included in your responses. Unless otherwise specified as “if applicable,” all questions are mandatory. If you are unable to provide a response, please explain why. Applications that leave mandatory questions blank will be considered incomplete.

The application form is a fillable PDF, which you will interact with as follows:

- **Insert your response as text** in the spaces provided within the boxes.
- **Select your responses** from the dropdown options (which appear as)
- **Check the checkboxes** represented by interactive checkbox ☐.
- **Prepare required attachments and submit** alongside this application form.

Use the following resources and templates to complete your application:

- [Application Guide](#)
- [Financial Template](#)
- [Final Checklist](#)

All the application related documents can be found on the program [website](#).

All applications must be submitted online via [NS Form](#).

SUBMISSION FORMAT

The Department of Energy requires all applicants applying for a Demonstration Permit under the *Marine Renewable-energy Act* to submit all required information and documentation electronically via: [NS Form](#)

Payment Method:

Refer to Section 2.7 of the Application Guide for payment options and instructions.

Questions?

Email: marinerenewables@novascotia.ca
 Website: <https://novascotia.ca/programs/tidal-demonstration-permit/>

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1 EXECUTIVE SUMMARY

1. **Project Summary:** Provide a concise, high-level summary of the proposed tidal stream project. The summary should present a clear overview of the project's objectives, scope, and readiness, consistent with a demonstration permit under the *Marine Renewable-energy Act*. The project summary should include the following:
- Project location and site description;
 - Proposed project timeline and key milestones;
 - Nameplate capacity in megawatts;
 - Generator and technology type(s);
 - Electrical interconnection concept and feasibility;
 - Engagements conducted and/or planned (e.g., Indigenous communities, stakeholders, regulators);
 - High-level financial metrics, including estimated total capital expenditures (CAPEX), operating expenditures (OPEX), sources of funding, and proposed power purchase agreement (PPA) rate; and,
 - Socio-economic benefits of the proposed project.

Format: You may answer in bullet point format. The response must be no more than 4,000 characters (approximately 500 words).

2 APPLICANT INFORMATION				
2. Applicant Name (legal name to appear on permit)				
3. Company/Organization	Name:		Phone:	
	Mailing Address:			
4. Type of Corporation	Note: <i>The Applicant must be a single entity.</i>			
5. Company ID	Registry of Joint Stock Companies number:			
6. Directors	Please list the directors of the applicant, including the name, address, email address and telephone number of each director.			
	Name	Address	E-mail	Phone
7. Project Primary Contact:	Name:		Position:	
	E-mail:		Phone:	
	Mailing Address:			
8. Project Secondary Contact:	Name:		Position:	
	E-mail:		Phone :	
9. Project Signing Authority:	Name :		Position :	
	E-mail :		Phone :	
10. Company Structure and Owner(s) (If applicable)	Please list all the entities with a ten percent (10%) or greater stake in the Project.			
	Name of Project Owner	Percentage Ownership	Percentage Voting Power	Percentage Profit-sharing Agreement
		%	%	%
		%	%	%
		%	%	%
Document Required: If your project has multiple partners or owners, provide: 1) a corporate organization chart showing levels of ownership and subsidiaries; 2) supporting documentation validating each partnership claim (including, but not limited to, the partnership agreement, memorandum of understanding (MOU) or contract), and; 3) the following information of each owner listed above:				

- | | |
|--|---|
| | <ul style="list-style-type: none">a) Company Nameb) Business Structure (corporation, partnership, limited partnership, sole proprietorship, other)c) Registered Addressd) Name of Registered Agente) Telephonef) Emailg) Applicant or Project URLh) Name of authorized signatory(s)i) Nova Scotia Registry of Joint Stock Companies ID number (if applicable) |
|--|---|

Submit the attachment as a single PDF file. Name it **Q10_Owners** and include it as part of your application package on NS Forms.

3 PROJECT EXPERIENCE

11. Work and Project Experience: Describe the applicant's and its leadership team's relevant experience in developing, delivering, operating, or overseeing projects of similar scope or complexity. Include experience with tidal stream energy, marine renewable energy, or technology demonstration projects. Highlight how this experience relates to the proposed project, including any key challenges encountered, lessons learned, and best practices that will inform its design, deployment, and operation.

Format: The response must be no more than 8,000 characters (approximately 1,000 words).

- 12. Professional Reference:** Provide independent, third-party references for two projects in which the applicant or its project partners have been involved within the past five years.

Project 1	
Project Name	
Project Summary	
Project Year	
Reference Name	
Reference Phone Number	
Reference Email	

Project 2	
Project Name	
Project Summary	
Project Year	
Reference Name	
Reference Phone Number	
Reference Email	

- 13. Project Management:** Describe the applicant's experience, expertise, and credentials related to project management as they pertain to the requirements of this application. The applicant should provide examples of past projects highlighting similarities to and differences from the proposed project. Describe any issues or challenges encountered, key lessons learned, and best practices identified through this experience.

Format: You may answer in bullet point format. The response must be no more than 4,000 characters (approximately 500 words).

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14. Experience working with Regulators: Describe the applicant's experience working with regulators to obtain and maintain approvals, as well as its involvement in environmental monitoring and reporting. The applicant should provide examples highlighting similarities to and differences from the proposed project. Describe any issues or challenges encountered, key lessons learned, and best practices identified through this experience.

Format: You may answer in bullet point format. The response must be no more than 4,000 characters (approximately 500 words).

15. Marine Operations Experience: Describe the applicant's experience, expertise, and credentials in carrying out marine operations relevant to the proposed project. Provide examples of projects undertaken, including a brief description of the technology deployed, project dates, locations, client or project owner, and project size (in MW, where applicable). Explain how this experience is similar to or differs from the proposed project, and describe any issues or challenges encountered, key lessons learned, and best practices that will be applied to the execution of the proposed project.

Format: You may answer in bullet point format. The response must be no more than 4,000 characters (approximately 500 words).

16. Project Manager CV: Specify the project manager's responsibilities and contributions to the project, overall time commitment to it (including time anticipated to be spent on-site and in the province), and experience working with members of the project team.

Format: You may answer in bullet point format.

Document Required: Provide a curriculum vitae of the applicant's project manager with emphasis on their pertinent technical expertise, project management and/or marine engineering experience related to tidal stream energy. Submit the attachment as a single PDF file. Name it **Q16_PMCV** and include it as part of your application package on NS Forms.

17. Project Team: List core project members and describe their responsibilities in the Project.

Format: Answer in bullet point format.

Document Required: Provide curricula vitae of the applicant's key project team members with emphasis on their pertinent technical expertise, project management and/or marine engineering experience related to tidal stream energy. Include their credentials and the activities during which they acquired their expertise and experience. Submit the attachment as a single PDF file. Name it **Q17_TeamCV** and include it as part of your application package on NS Forms.

4 PROJECT DESCRIPTION

18. Project Title

Project Size and Predicated Performance

19. Nameplate Capacity

 MW

20. Predicted Annual Net Output

 MWh

Describe how you have used the result of a previous deployment, testing, or modelling to predict the annual net output of the generator(s) to be deployed.

Note: You will be asked to describe the previous deployment later in this section.

Project Technology

21. Device Description: Describe the tidal stream device you intend to deploy. Your response should address:

- Manufacturer, model, and technology type (e.g., horizontal-axis turbine, vertical-axis turbine, oscillating device);
- Rated capacity per unit and total number of units;
- Physical dimensions, rotor diameter, and approximate weight;
- Mounting and foundation approach (e.g., seabed-mounted, gravity base, mooring system), including any associated offshore structures such as moorings, piles, anchors, or other seabed-contact components, and how these maintain the position and stability of the device;
- Total seafloor footprint, including anchors, cables, connectors, and any proposed safety zones; and,
- Swept area of the blade or impeller system relative to the vertical water column.

Format: You may answer in bullet point format. The response must be no more than 8,000 characters (approximately 1,000 words).

Document Required: Proof of ownership, license, or equivalent right to use the proposed tidal stream energy technology. Submit the attachment as a single PDF file. Name it **Q21a_TechRight2Use** and include it as part of your application package on NS Forms.

Document Required: Include diagram(s) of the proposed devices as a single PDF file. Name it **Q21b_TechDiagram** and include it as part of your application package on NS Forms.

22. Operational Characteristics: Describe how the device operates under tidal flow conditions. Your response should address:

- Cut-in, rated, and maximum operating current velocities;
- Whether the device operates in unidirectional or bidirectional flow, and how it accommodates changes in tidal flow direction;
- The direction, speed, and control of all moving parts exposed to the water column, including maximum blade or impeller rotational speed and the mechanism used to limit, control, or stop it;
- How the main energy-collecting elements (e.g., blades, foils) respond to tidal forces during normal operation, startup, shutdown, and extreme flow conditions; and,
- How mechanical energy is converted to electrical energy (power take-off and energy conversion system), and the expected conversion efficiency under typical conditions.

Format: You may answer in bullet point format. The response must be no more than 8,000 characters (approximately 1,000 words).

23. Technology Readiness Level: Select the Technology Readiness Level (TRL) of your device using the [European Marine Energy Center's scale](#) (1–9). Provide brief justification explaining why your device meets this TRL, referencing any testing, deployments, or independent assessments completed.

Note: *To be eligible under this call for applications, the proposed device must achieve a minimum Technology Readiness Level (TRL) of 4.*

24. Survivability, Validation, and Certification: Describe how the device has been designed and validated for reliable operation in high-energy marine environments. Your response should address:

- Material selection, corrosion resistance, and fatigue performance strategies;
- Design validation activities completed or planned (e.g., numerical modelling, tank testing, structural analysis) demonstrating stability and structural integrity under expected loading conditions at the Fundy Area of Marine Renewable-energy priority; and,
- Any completed or planned independent design reviews, third-party certifications, or alignment with International Electrotechnical Commission (IEC) marine energy standards or DNV standards.

Format: You may answer in bullet point format. The response must be no more than 8,000 characters (approximately 1,000 words).

25. Site Interface and Array Interactions: Describe how the device interacts with its deployment site and any neighbouring infrastructure. Your response should address:

- Proposed proximity of the device to other generators, subsea cables, mooring lines, or related infrastructure, and how physical, hydrodynamic, electrical, or operational interactions have been considered in the project design.

Format: You may answer in bullet point format. The response must be no more than 8,000 characters (approximately 1,000 words).

Project Technology – Previous Deployment

26. Previous Deployment: Provide details of previous deployment(s) and/or testing (lab or in situ) of the proposed tidal stream technology in this application.

Location	
Dates of deployment/tests	
Manufacturer of generator	
Dimensions of generator	
Nameplate capacity in MW of generator	

Document Required: Submit a diagram of generator. Submit the attachment as a single PDF file. Name it **Q26_PD Diagram** and include it as part of your application package on NS Forms.

27. Difference in Generators: Describe any differences between the generator(s) previously tested and the generator proposed for deployment.

Format: You may answer in bullet point format. The response must be no more than 8,000 characters (approximately 1,000 words).

28. Environmental Effects Monitoring (if applicable): Describe the results of environmental effects monitoring of the previously deployed generator(s).

Format: The response must be no more than 8,000 characters (approximately 1,000 words).

Document Required: Submit any reports or results of relevant studies or tests conducted for the previously deployed generator(s). Submit the attachment as a PDF file. Name it **Q28_Previous Monitoring Studies** and include it as part of your application package on NS Forms.

29. Results of Previous Deployments: Describe the results of previous physical deployments, including performance outcomes, operational experiences, and any evaluations conducted.

Format: You may answer in bullet point format. The response must be no more than 8,000 characters (approximately 1,000 words).

30. Contact Information: Provide the contact information for any organizations or individuals that conducted independent monitoring or evaluation of previous deployments.

Contact 1

Name of Organizations and/or Individuals	
Study Name	
Scope of Study	
E-mail	
Phone Number	

Contact 2 (if applicable)

Name of Organizations and/or Individuals	
Study Name	
Scope of Study	
E-mail	
Phone Number	

Contact 3 (if applicable)

Name of Organizations and/or Individuals	
Study Name	
Scope of Study	
E-mail	
Phone Number	

31. Reference Letters (If Applicable): If the technology has been deployed under a power purchase or service agreement, provide up to two reference letters from the contracting party.

Document Required: Submit requested reference letters as a single PDF file. Name it **Q31_ContractReference** and include it as part of your application package on NS Forms.

Project Location & Land Access

32. Geographic Coordinates: Provide the latitude and longitude of the proposed permit area using the NAD83 or WGS84 datum.

Latitude (decimal degrees)	
Longitude (decimal degrees)	

Note: A legend must be supplied for all mapping describing symbols used, scale and north orientation.

33. A Land Survey

Document Required: Submit a survey of the proposed permit area prepared by a Nova Scotia Land Surveyor. Name it **Q33_Land Survey** and include it as part of your application package on NS Forms.

34. Site Map

Document Required: Submit a site map produced at an appropriate scale that clearly illustrates the proposed location and proximity of any connected generator, cable or other equipment or structure constructed, installed or operated under the authority of the permit. Submit as a single PDF file. Name it **Q34_Site Map** and include it as part of your application package on NS Forms.

35. Site Characteristics: Provide a description of any special site characteristics that are essential for the activities to be carried out under the permit. If known, include proximity to key linear and other transportation components (e.g. ports, railways, roads, electrical power transmission lines).

Format: You may answer in bullet point format. The response must be no more than 8,000 characters (approximately 1,000 words).

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36. Site Selection: Provide an explanation for the selection of the permit area, including information on any alternative areas/sites considered and an explanation of why the proposed area/site was selected over the alternative areas/sites.

Format: You may answer in bullet point format. The response must be no more than 8,000 characters (approximately 1,000 words).

37. Land access: Describe the ownership, leasing, or other access requirements for the land between the generation facility and the electrical grid. Where applicable, include any proposed agreements or permissions required to access third-party or Crown land to reach an interconnection site.

Format: You may answer in bullet point format. The response must be no more than 4,000 characters (approximately 500 words).

5 INTERCONNECTION

38. NSPI Pre-Application Assessment

Document Required: Attach a PDF copy of the completed Pre-Application Assessment for distribution connected projects from NSPI. Name it **Q38 NSPI PAA** and include it as part of your application package on NS Forms.

39. Interconnection Plan: Describe your project's interconnection pathway and plans.

Format: You may answer in bullet point format. The response must be no more than 4,000 characters (approximately 500 words).

40. Interconnection Feasibility: Describe in detail how your Pre-Application Assessment demonstrates that your chosen permit area is feasible for interconnection to the grid.

Format: You may answer in bullet point format. The response must be no more than 4,000 characters (approximately 500 words).

Note: Choosing a site that can host your project size is critical to your project's acceptance into the program. Refer to the detailed notes provided in your assessment from NSPI.

6 INNOVATION

41. Project Innovation: Describe the specific innovation(s) your project advances, relative to currently permitted tidal energy projects in Nova Scotia. Where applicable, quantify improvements in performance, cost, environmental interaction, or operational method.

Format: You may answer in bullet point format. The response must be no more than 8,000 characters (approximately 1,000 words).

42. Addressing Barriers: Identify one or more technical or non-technical barriers to marine renewable energy demonstration or commercialization that this project is designed to address. Explain the proposed approach and expected outcome.

Format: You may answer in bullet point format. The response must be no more than 4,000 characters (approximately 500 words).

7 PROJECT PLAN

43. Project Plan: Provide a complete Project Plan that outlines a schedule and description of the proposed activities for all stages of the project under the permit, including planning, regulatory applications and approvals, construction (staged installation of generator(s)), operation, grid interconnection, monitoring, decommissioning, and site rehabilitation. The Project Plan should demonstrate the applicant's ability to achieve the required in-Service Date. Ensure to include all the required information outlined in the Application Guide.

Document Required: Submit a Project Plan (PDF) with a Gantt chart. Name the file **Q43_ProjectPlan** and include it as part of your application package on NS Forms.

44. Staged Installation (If Applicable for >1 proposed devices for installation): Describe a plan to demonstrate how lessons from the first installed generator will be applied to subsequent installations.

Format: The response must be no more than 4,000 characters (approximately 500 words).

8 ENVIRONMENTAL MONITORING PLAN

45. Environmental Monitoring Plan (Draft)

Document Required: Submit a draft Environmental Monitoring Plan developed in accordance with the detailed requirements and expectations outlined in the Application Guide. Submit the document as a single PDF file. Name the file **Q45_EMP** and include it as part of your application package on NS Forms.

9 RISK MANAGEMENT PLAN

46. Risk Management Plan (Draft)

Document Required: Submit a draft Risk Management Plan developed in accordance with the detailed requirements and expectations outlined in the Application Guide. Submit the document as a single PDF file. Name the file **Q46_RMP** and include it as part of your application package on NS Forms.

10 DECOMMISSIONING, ABANDONMENT AND REHABILITATION PLAN

47. Decommissioning, Abandonment and Rehabilitation Plan (Draft)

Document Required: Submit draft Decommissioning, Abandonment and Rehabilitation Plan developed in accordance with the detailed requirements and expectations outlined in the Application Guide. Submit the document as a single PDF file. Name the file **Q47_DARP** and include it as part of your application package on NS Forms.

11 ENGAGEMENT

48. Mi'kmaq Engagement Plan

Document Required: Submit Mi'kmaq Engagement Plan developed in accordance with the detailed requirements and expectations outlined in the Application Guide. Submit the document as a single PDF file. Name the file **Q48_MEP** and include it as part of your application package on NS Forms.

49. Stakeholder Communication and Engagement Plan

Document Required: Submit Stakeholder Communication and Engagement Plan developed in accordance with the detailed requirements and expectations outlined in the Application Guide. Submit the document as a single PDF file. Name the file **Q49_SCEP** and include it as part of your application package on NS Forms.

12 FINANCIAL INFORMATION

50. Project Finance and Financing Plan

Document Required: Submit the completed financial template using the provided template and submit it as an Excel file. Name the file **Q50_Financials** and include it as part of your application package on NS Forms.

51. Financial Model

Document Required: Submit a pro forma financial model that provides predicted cash flow detail for the life of the project, including the projected costs and revenues relating to the operation of any generator, cable, anchor or other equipment or structure which are essential in carrying out the permitted activity for the duration of the proposed permits and PPA. Name the file **Q51_Financial Model** and include it as part of your application package on NS Forms.

13 FINAL CHECKLIST

52. Final Checklist

Document Required: Submit the completed final checklist using the provided template to ensure that you have prepared all the required attachments. Submit it as a PDF file. Name the file **Q52_Final Checklist** and include it as part of your application package on NS Forms.

Questions continue in the following page.

14 REGULATORY APPROVALS

53. Permits and Approvals: List any approvals, authorizations and/or ongoing permit reviews that are relevant to this application.

Note: Refer to the Appendix C(Permits and Approvals Reference) in the Application Guide to complete this section.

Permit and Approval Name	Issuing Authority	Status	Date Applied (if applicable)	Date of Issuance (if applicable)

Applications shall only be considered once deemed complete.

15 DECLARATION

The Department of Energy collects the personal information on this form under the Marine Renewable-energy Act, the Marine Renewable-energy General Regulations, and the Freedom of Information and Protection of Privacy Act (FOIPOP).

We use this information to review and process your Demonstration Permit Program application, contact you about your application, assess eligibility and project requirements, and support program administration. This includes evaluating information required to administer the application process for a demonstration permit.

We disclose information from approved permits as required under the Marine Renewable-energy General Regulations on the department's website. This may include the identity and address of the permit holder, the designated permit area, permit requirements, the date the permit was issued, and a description of the activities authorized under the permit.

We may also use or disclose your information for these purposes or as allowed by law.

By submitting this form, you confirm that the information you provided is complete and accurate.

To learn more about how the Government of Nova Scotia protects your privacy, please read our Privacy Statement. If you have questions about how your personal information is handled, you can contact us at MarineRenewables@novascotia.ca.

Information in this application package which the applicant considers to be confidential business information should be clearly identified.

☐ Yes ☐ No

Are you making this request?

If yes, please indicate which information in the application package is considered confidential and provide an explanation that supports why this information is considered confidential.

When considering an application for a permit, the Minister may consult with any department of the public service of the Province or of Canada, government agency or agency of the Government of Canada, that exercises regulatory authority over any aspect of the activities to be carried on under the permit.

☐ I understand the Minister may disclose any information, including personal information, contained in an application for a permit when consulting with any department of the public service of the Province or of Canada, government agency or agency of the Government of Canada, that exercises regulatory authority over any aspect of the activities to be carried on under the permit.

☐ I confirm to the best of my knowledge and belief the information provided in this form and supporting documentation is true and accurate and complies with the relevant provisions of the *Marine Renewable-energy Act* and Regulations.

I declare that I have the required signing authority for this application. I confirm that the contents of this Application are true, accurate, and complete, and that I have read and completed all preceding Declaration sections.

The name and signature of the Chief Executive Officer or a person with signing authority is required if the applicant is a corporation.

Applicant's _____ Date: (yyyy/mm/dd) _____
Signature:

Name (Please type): _____