

**ANNEX 2 TO THE
MEMORANDUM OF UNDERSTANDING
BETWEEN
THE DEPARTMENT OF ENERGY OF THE UNITED STATES OF
AMERICA
AND
THE ROYAL MINISTRY OF ENERGY OF THE KINGDOM OF NORWAY
ON
COLLABORATION IN THE FIELD
OF
ENERGY RESEARCH, DEVELOPMENT AND DEMONSTRATION FOR
COOPERATION IN WATER POWER RESEARCH AND DEVELOPMENT**

The Department of Energy of the United States of America (DOE) and the Royal Ministry of Energy of the Kingdom of Norway (ED), referred to jointly as “the Participants;”

Noting the Memorandum of Understanding between the Department of Energy of the United States of America and the Royal Ministry of Energy of the Kingdom of Norway on Collaboration in the Field of Energy Research, Development and Demonstration, signed at Amsterdam on the 23rd of May 2004 (the “MoU”);

Noting that the Participants have previously cooperated on hydropower research through Annex 1 to the Memorandum of Understanding between the Department of Energy of the United States of America and the Royal Ministry of Energy of the Kingdom of Norway on Collaboration in the Field of Energy Research, Development and Demonstration for Cooperation in Hydropower Research and Development, signed at Trondheim on 4th of February 2020 (“MoU Annex 1”);

Noting that under section 1.c of the MoU, fields of collaboration between the Participants may include renewable energy and, under section 2.1.b, cooperative activities may be undertaken by research institutions of the Participants, such as the Norwegian Research Centre for Renewal of Hydropower Technology (RenewHydro); and

Desiring to continue cooperation between the Participants within the field of hydropower and marine energy,

Have reached the following understanding:

SECTION 1 – OBJECTIVES

- I. This Annex is subject to the terms and conditions of the MoU.

- II. The overall objectives of this Annex are to: plan and coordinate research as appropriate; develop, share, and implement results. Hydropower objectives are to increase understanding of hydropower's role in the future energy mix; and provide input to policy discussions regarding hydropower. Marine energy objectives are to share lessons learned and best practices in marine energy technology development for deployment and testing.

SECTION 2 – AREAS OF COOPERATION

Cooperation under this Annex may include, but is not limited to, joint programs, projects, events, and online information platforms used to disseminate results, events, and other information regarding research and development and how it relates to implementation and best practices and workforce development.

Topics of cooperation on hydropower flexibility and sustainability, include:

- Flexible Operations and Planning;
- Markets and Value;
- Plant Capabilities and Constraints;
- Monitoring and Control Technologies;
- Pumped storage hydropower;
- Environmental monitoring, impacts, and design solutions;
- Trade-offs and Decision Support Tools;
- Hydrologic seasonal variations;
- Data management and Dissemination;
- Small Hydro contributions to flexible hydropower; and
- Technology Innovation.

Topics of cooperation on marine energy development include:

- Technology innovation for marine and tidal generation devices; and
- Information sharing to reduce barriers to testing.

SECTION 3 – PARTICIPATING ORGANIZATIONS

- I. The principal organizations in Norway responsible for conducting cooperative activities under this Annex are OED and RenewHydro.
- II. The principal organization in the United States responsible for conducting cooperative activities under this Annex is the DOE Office of Energy Efficiency and Renewable Energy, Water Power Technologies Office.
- III. Consistent with section 2.1.b of the MoU, other laboratories, research institutions, universities, or contractors of the Participants may undertake cooperative activities under this Annex upon invitation of the relevant Participant.

SECTION 4 – FORMS OF COOPERATION

Cooperative activities undertaken pursuant to this Annex may include any of those forms listed under section 2.2 of the MoU. Prior to conducting any new cooperative activities not listed in the MoU, the Participants should determine jointly in writing whether to do so.

SECTION 5 - MANAGEMENT

Each Participant should designate an Annex Coordinator to oversee all activities conducted under the Annex. The Participants intend to hold an annual Annex Coordination Meeting at a mutually determined site.

SECTION 6 – COSTS AND TECHNICAL SCOPE

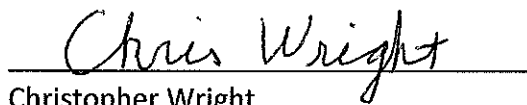
- I. Except as otherwise specified by the Participants in writing, all costs, including travel and lodging expenses, resulting from cooperation under this Annex are to be borne by the entity that incurs them.
- II. The implementation of this Annex is subject to the availability of appropriated funds and personnel.
- III. Each Participant and associated research institution should conduct activities under this Annex in accordance with applicable law and regulations to which it is subject.
- IV. This Annex does not create any legally binding obligations between the Participants.

SECTION 7 – COMMENCEMENT, MODIFICATION, AND DISCONTINUATION

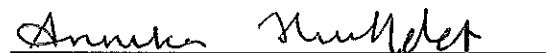
- I. Activities under this Annex may commence upon signature by the Participants and continue for a period of five (5) years, unless the MoU or this Annex is earlier discontinued. This Annex may be modified or extended by mutual written consent of the Participants so long as the MoU remains in effect.
- II. The Participants may discontinue collaborative activities under this Annex at any time by mutual written consent. Alternatively, a Participant that wishes to discontinue its participation in this Annex may do so at any time and should endeavour to provide six (6) months advance written notice of its intent to the other Participant.

Signed in Washington, DC, in duplicate, this 7th of July 2025.

**FOR THE DEPARTMENT OF ENERGY
OF THE UNITED STATES OF AMERICA:**


Christopher Wright
Secretary of Energy
U.S. Department of Energy

**FOR THE ROYAL MINISTRY OF ENERGY
OF THE KINGDOM OF NORWAY:**


Anniken Huitfeldt
Ambassador
Royal Norwegian Embassy in Washington,
D.C.