



Clean Energy Technology - Webinar

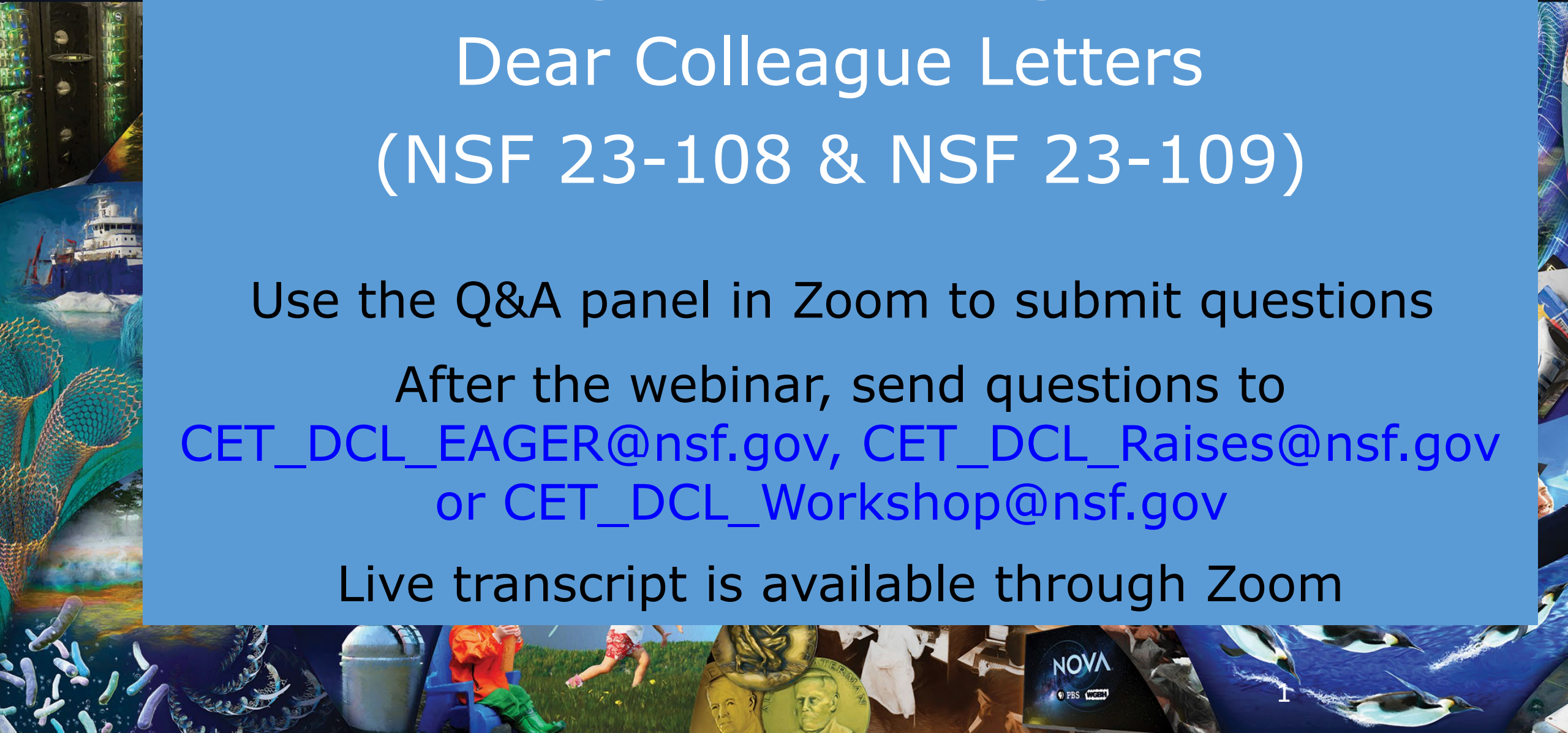
Dear Colleague Letters

(NSF 23-108 & NSF 23-109)

Use the Q&A panel in Zoom to submit questions

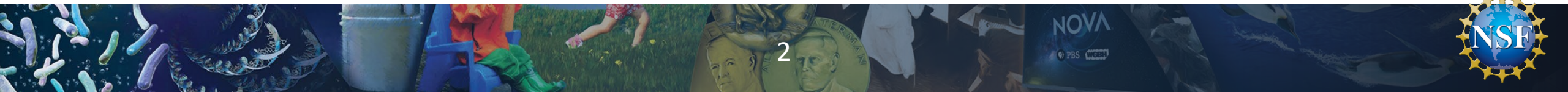
After the webinar, send questions to
CET_DCL_EAGER@nsf.gov, CET_DCL_Raises@nsf.gov
or CET_DCL_Workshop@nsf.gov

Live transcript is available through Zoom



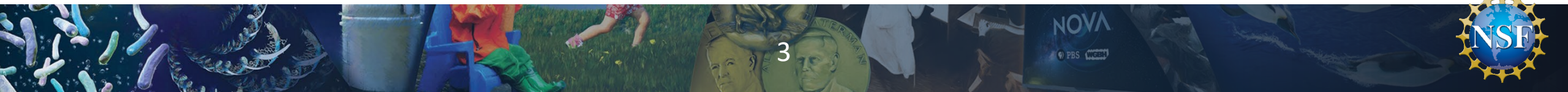
Clean Energy Technology - Motivation

Advances in custom-designing and producing materials for energy-efficient technologies, electrification of the U.S. economy including the transportation sector and the chemical industry, as well as developing new approaches to harnessing energy from renewable sources in green and sustainable ways, are **critical** for developing practical approaches to achieving a carbon-neutral and equitable economy.



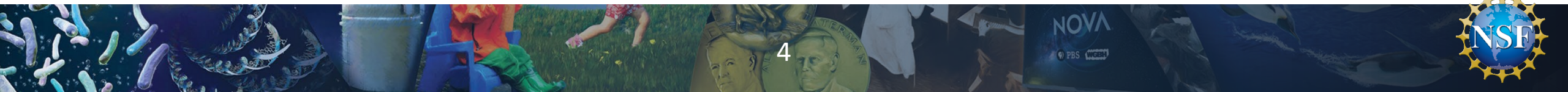
Clean Energy Technology - Definition

For the purposes of these Dear Colleague Letters (DCLs), clean energy represents **new efficient technology based on novel fundamental concepts**, the energy saved through **increased energy efficiency and conservation measures** for existing technologies, as well as **energy derived from renewable sources**.



Participating NSF Directorates

- Engineering Directorate (ENG)
- Mathematical and Physical Sciences Directorate (MPS)
- Biological Sciences Directorate (BIO)
- Computer and Information Science and Engineering Directorate (CISE)
- Geosciences Directorate (GEO)
- Social, Behavioral and Economic Sciences Directorate (SBE)
- STEM Education Directorate (EDU)
- Technology, Innovation and Partnerships Directorate (TIP)



NSF - Clean Energy Technology DCLs

- **EAGER proposal call (NSF 23-109)**
 - Concept outline due: **6/14/2023**
 - Full proposal due (after invitation only): **8/2/2023**
- **Conference proposal call (NSF 23-108)**
 - Concept outline due: **6/30/2023**
 - Full proposal due (after invitation only): **8/16/2013**
- **RAISE proposal call (NSF 23-109)**
 - Concept outline due: **7/12/2023**
 - Full proposal due (after invitation only): **9/29/2023**

*** Concept outlines and proposals are due by 5 p.m. submitters time**



EARLY-concept Grants for Exploratory Research (EAGER)

EAGER is a type of proposal used to support **exploratory work in its early stages on untested, but potentially transformative, research ideas or approaches**. This work may be considered especially "high risk-high payoff" in the sense that it, for example, involves radically different approaches, applies new expertise, or engages novel disciplinary or interdisciplinary perspectives

EAGER proposals are NOT:

- projects that are appropriate for submission as "regular" NSF proposals
- for planning grants
- to support the collection of preliminary data



Research Advanced by Interdisciplinary Science and Engineering (RAISE)

RAISE is a type of proposal that may be used to support bold, interdisciplinary projects whose:

- **Scientific advances lie in great part outside the scope of a single program or discipline**, such that substantial funding support from more than one program or discipline is necessary
- Lines of research promise transformational advances
- Prospective discoveries reside at the interfaces of disciplinary boundaries



Research Advanced by Interdisciplinary Science and Engineering (RAISE)

RAISE proposals submitted to NSF 23-109 will be reviewed externally

- RAISE is not intended to be used for projects that can be accommodated within other types of proposals or that continue well established practices.
- NSF will not accept a RAISE separately submitted collaborative proposal from multiple organizations. A collaborative proposal must be submitted as a **single proposal** from one organization, **with any collaborators identified as subawardee organizations.**



NSF 23-109 Research Topics

- a) Hydrogen, fusion, and/or geothermal technologies
- b) Industrial heat and/or energy efficiency technologies
- c) Fundamental challenges of enabling offshore wind/wave technologies
- d) Critical materials for clean energy technologies - their recovery, reuse, and recycling
- e) Net-zero fuels and bioenergy
- f) Education and workforce development efforts



NSF 23-109 – EAGER Submission

Concept outline
due 6/14/2023



Invitation to
submit EAGER
proposal



EAGER proposal
due 8/02/2023

- 3 pages (plus a half-page justification of the estimated budget; 4 pages incl. references)
- Budget request: up to \$300,000
- Duration: 2 years
- **Email concept outline to CET_DCL_EAGER@nsf.gov**

approx. 2 weeks after
submission deadline

- Submit via Research.gov to the coordinating program Electrochemical Systems (PD 23-7644)

An individual may appear as PI, co-PI, Senior Personnel, or Consultant on no more than one proposal (EAGER or RAISE)



NSF 23-109 – RAISE Submission

Concept outline
due 7/12/2023



Invitation to
submit RAISE
proposal



RAISE proposal
due 9/29/2023

- 3 pages (plus a half-page justification of the estimated budget; 4 pages incl. references)
- Budget request: up to \$1,000,000
- Duration: max. 5 years
- **Email concept outline to CET_DCL_Raises@nsf.gov**

approx. 2 weeks after
submission deadline

- Submit via Research.gov to the coordinating program Electrochemical Systems (PD 23-7644)

An individual may appear as PI, co-PI, Senior Personnel, or Consultant on no more than one proposal (EAGER or RAISE)



NSF 23-108

Dear Colleague Letter: Conference Proposals on Clean Energy Topics



NSF 23-108 – Submission

Concept outline
due 6/30/2023



Invitation to
submit
conference
proposal



Conference
proposal due
8/16/2023

- 3 pages (plus a half-page justification of the estimated budget; 4 pages incl. references)
- Budget request: up to \$100,000
- **Email concept outline to CET_DCL_Workshop@nsf.gov**

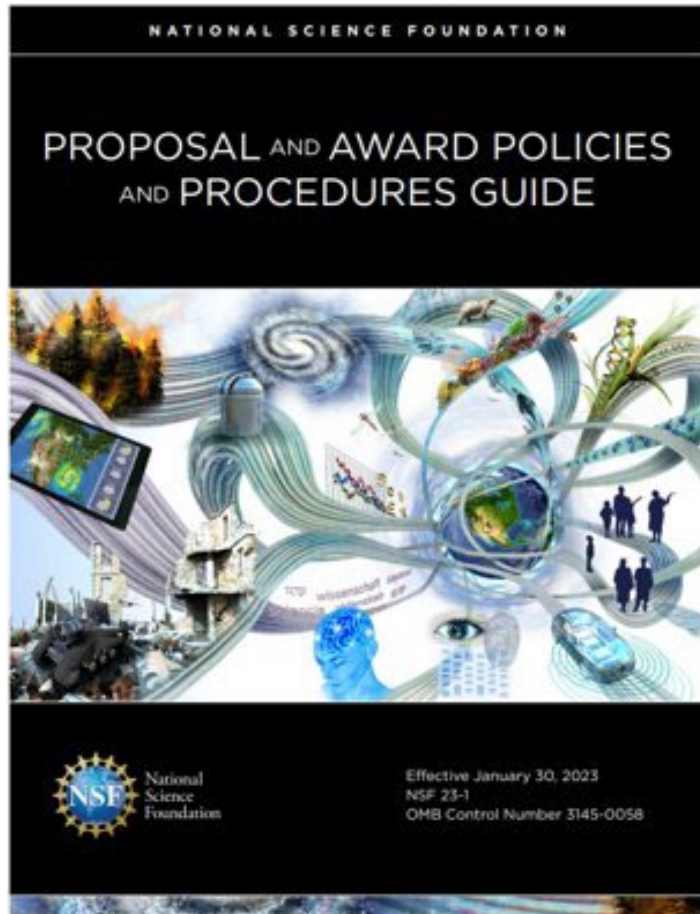
approx. 2 weeks after
submission deadline

- Submit via Research.gov to the coordinating program Electrochemical Systems (PD 23-7644)

An individual may appear as PI, co-PI, Senior Personnel, or Consultant on no more than one proposal



Resources and Program Officers are Available to Answer Questions



- Be sure to fully read the Dear Colleague Letter(s)
- Be sure to fully read the PAPPG
- PAPPG Part 1 - Chapter 2 – Proposal preparation guide
- PAPPG Exhibit II-1: Proposal Preparation Checklist

NSF 23-1



NSF - Clean Energy Technology DCLs

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Q&A

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Thank you!

