

From: Bobo, Diana
To: Pfrangle, Clay
Subject: RE: Final FY18 FOA for posting
Date: Wednesday, April 11, 2018 7:43:30 AM

Hi Clay,

I reviewed the FOA, and fixed a couple of typos and updated the cost sharing regulation in the Appendix. Everything else looks good.

Thanks,
Diana

From: Mikrut, Jeremy
Sent: Tuesday, April 10, 2018 2:21 PM
To: Bobo, Diana <Diana.Bobo@ee.doe.gov>; Pfrangle, Clay <Clay.Pfrangle@EE.Doe.Gov>
Cc: Kane, Victor <Victor.Kane@EE.Doe.Gov>; Wilson, Sara <Sara.Wilson@ee.doe.gov>; Nilsen, Garrett <Garrett.Nilsen@ee.doe.gov>; Murley, Susanna (CONTR) <Susanna.Murley@EE.DOE.Gov>; Fricker, Kyle <Kyle.Fricker@EE.DOE.Gov>
Subject: Final FY18 FOA for posting
Importance: High

Hi Diana and Clay,

Attached is the Final FOA that can be uploaded in STRIPES and posted on Exchange on Monday once we get the greenlight clearance. Let me know if you have any questions.

Thank you,
Jeremy

Jeremy Mikrut
Technical Project Officer
Solar Energy Technologies Office
Golden, Colorado
Phone: 240-562-1289

From: [Bobo, Diana](#)
To: [Pfrangle, Clay](#)
Subject: RE: Green light granted to start notifications for \$105 million SETO FOA
Date: Wednesday, April 11, 2018 10:18:33 AM

Looks good! Please cc Victor, Jeremy, and Susanna, so they know what time on Monday we can post the FOA.

-----Original Message-----

From: Pfrangle, Clay
Sent: Wednesday, April 11, 2018 10:17 AM
To: Bobo, Diana <Diana.Bobo@ee.doe.gov>
Subject: RE: Green light granted to start notifications for \$105 million SETO FOA

Thank you,

Clay Pfrangle

Grants and Agreements Specialist
US Dept. of Energy - Golden Field Office
15013 Denver West Parkway
Golden CO 80401
(720) 356-1748 Phone
(720) 356-1730 fax

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-----Original Message-----

From: Bobo, Diana
Sent: Wednesday, April 11, 2018 10:16 AM
To: Pfrangle, Clay <Clay.Pfrangle@EE.Doe.Gov>
Subject: RE: Green light granted to start notifications for \$105 million SETO FOA

The document looks good, but the issue date should be Monday.

Thanks!
Diana

-----Original Message-----

From: Pfrangle, Clay
Sent: Wednesday, April 11, 2018 10:14 AM
To: Bobo, Diana <Diana.Bobo@ee.doe.gov>
Cc: Pfrangle, Clay <Clay.Pfrangle@EE.Doe.Gov>
Subject: RE: Green light granted to start notifications for \$105 million SETO FOA

Just say when.

Thank you,

Clay Pfrangle

Grants and Agreements Specialist
US Dept. of Energy - Golden Field Office
15013 Denver West Parkway
Golden CO 80401
(720) 356-1748 Phone
(720) 356-1730 fax

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-----Original Message-----

From: Horst, John

Sent: Wednesday, April 11, 2018 10:13 AM

To: Murley, Susanna (CONTR) <Susanna.Murley@EE.DOE.Gov>; Garson, Jennifer
<Jennifer.Garson@EE.doe.gov>; Bristol, Jennifer (CONTR) <Jennifer.Bristol@EE.doe.gov>

Cc: Pfrangle, Clay <Clay.Pfrangle@EE.Doe.Gov>; Bobo, Diana <Diana.Bobo@ee.doe.gov>

Subject: Green light granted to start notifications for \$105 million SETO FOA

Hello,

The documents have been reviewed and approved by CFO and CI. Here's your green light to start notifications for the SETO FOA.

Thanks,
John

From: Bobo, Diana
To: Murley, Susanna (CONTR); Mikrut, Jeremy
Cc: Pfrangle, Clay; Nilsen, Garrett; Kane, Victor; Wilson, Sara; Horst, John
Subject: RE: FY'18 FOA Strategy Meeting
Date: Tuesday, April 17, 2018 7:00:40 AM

The FOA has been published on Exchange. Please find below the link to the FOA.

<https://eere-exchange.energy.gov/default.aspx#Foald731692d0-c60d-42e0-a6ff-617ce4510d77>

From: Murley, Susanna (CONTR)
Sent: Tuesday, April 17, 2018 5:48 AM
To: Bobo, Diana <Diana.Bobo@ee.doe.gov>; Mikrut, Jeremy <Jeremy.Mikrut@ee.doe.gov>
Cc: Pfrangle, Clay <Clay.Pfrangle@EE.Doe.Gov>; Nilsen, Garrett <Garrett.Nilsen@ee.doe.gov>; Kane, Victor <Victor.Kane@EE.Doe.Gov>; Wilson, Sara <Sara.Wilson@ee.doe.gov>
Subject: RE: FY'18 FOA Strategy Meeting

Looks like PA put the announcement link in politico already. Can you push the EERE exchange link live?

From: Bobo, Diana <Diana.Bobo@ee.doe.gov>
Date: Monday, Apr 16, 2018, 10:38 AM
To: Mikrut, Jeremy <Jeremy.Mikrut@ee.doe.gov>
Cc: Pfrangle, Clay <Clay.Pfrangle@EE.Doe.Gov>, Nilsen, Garrett <Garrett.Nilsen@ee.doe.gov>, Murley, Susanna (CONTR) <Susanna.Murley@EE.DOE.Gov>, Kane, Victor <Victor.Kane@EE.Doe.Gov>, Wilson, Sara <Sara.Wilson@ee.doe.gov>
Subject: RE: FY'18 FOA Strategy Meeting

Hi Jeremy,

Thank you for confirming the posting time. Once I receive the green light from PA to post, I will approve the FOA, as STRIPES and Exchange are ready to go.

I will be out of the office this afternoon, but I will be monitoring emails, so please let me know if anything changes.

Thank you!
Diana

From: Mikrut, Jeremy
Sent: Monday, April 16, 2018 8:27 AM
To: Bobo, Diana <Diana.Bobo@ee.doe.gov>

Cc: Pfrangle, Clay <Clay.Pfrangle@EE.Doe.Gov>; Nilsen, Garrett <Garrett.Nilsen@ee.doe.gov>;
Murley, Susanna (CONTR) <Susanna.Murley@EE.DOE.Gov>; Kane, Victor
<Victor.Kane@EE.Doe.Gov>; Wilson, Sara <Sara.Wilson@ee.doe.gov>
Subject: FW: FY'18 FOA Strategy Meeting

Hi Diana,

PA has delayed the announcement of the FOA to Tuesday at 9 a.m. (EST), so we can hold off on posting the FOA to Exchange today.

As discussed, thank you for getting online so early tomorrow to post the FOA. The FOA in STRIPES has the 17th as the FOA issued date, so I don't think any revisions are required at this time. If there is anything else needed to post please let me know.

Thank you,
Jeremey

From: Murley, Susanna (CONTR)
Sent: Monday, April 16, 2018 7:31 AM
To: Fricker, Kyle <Kyle.Fricker@EE.DOE.Gov>; Ferguson, Jamal (CONTR) <Jamal.Ferguson@ee.doe.gov>; Yuan, Guohui <Guohui.Yuan@EE.Doe.Gov>; Nilsen, Garrett <Garrett.Nilsen@ee.doe.gov>; Boyd, Michele A. (CONTR) <Michele.Boyd@ee.doe.gov>; Rench-McCauley, Dave (FELLOW) <Dave.Rench.McCauley@ee.doe.gov>; Kane, Victor <Victor.Kane@EE.Doe.Gov>; Tinker, Lenny <Lenny.Tinker@ee.Doe.Gov>; Shultz, Avi <Abraham.Shultz@EE.Doe.Gov>; Ulrich, Elaine <Elaine.Ulrich@ee.Doe.Gov>
Cc: Olson, Dana <Dana.Olson@Hq.Doe.Gov>; Bauer, Matthew (CONTR) <Matthew.Bauer@EE.DOE.Gov>; Goldstone, Michael <Michael.Goldstone@ee.doe.gov>; Miller, Jeremiah <Jeremiah.Miller@ee.doe.gov>; Walter, David <David.Walter@ee.doe.gov>; Graves, Andrew <Andrew.Graves@EE.Doe.Gov>; Gay, Charlie <Charlie.Gay@EE.DOE.Gov>; Jones-Albertus, Becca <Becca.Jones.Albertus@ee.doe.gov>; Mikrut, Jeremey <Jeremey.Mikrut@ee.doe.gov>; Dave Rench McCauley <(b) (6)>; Krishnaswami, Hariharan (FELLOW) <Hariharan.Krishnaswami@EE.doe.gov>; Celik, Kemal (CONTR) <Kemal.Celik@EE.DOE.Gov>
Subject: RE: FY'18 FOA Strategy Meeting

Hi Folks

The latest news is that the FOA will be released on Tuesday at 9 am.

Best,

Susanna

Susanna Murley
Solar Energy Technologies Office
U.S. Department of Energy
(o) 202.287.1637
(m)(b) (6)

From: Murley, Susanna (CONTR)
Sent: Friday, April 13, 2018 10:27 AM
To: Fricker, Kyle <Kyle.Fricker@EE.DOE.Gov>; Ferguson, Jamal (CONTR) <Jamal.Ferguson@ee.doe.gov>; Yuan, Guohui <Guohui.Yuan@EE.Doe.Gov>; Nilsen, Garrett <Garrett.Nilsen@ee.doe.gov>; Boyd, Michele A. (CONTR) <Michele.Boyd@ee.doe.gov>; Rensch-McCauley, Dave (FELLOW) <Dave.Rensch-McCauley@ee.doe.gov>; Kane, Victor <Victor.Kane@EE.Doe.Gov>; Tinker, Lenny <Lenny.Tinker@ee.Doe.Gov>; Shultz, Avi <Abraham.Shultz@EE.Doe.Gov>; Ulrich, Elaine <Elaine.Ulrich@ee.Doe.Gov>
Cc: Olson, Dana <Dana.Olson@Hq.Doe.Gov>; Hott, Rebecca (CONTR) <Rebecca.Hott@ee.doe.gov>; Bauer, Matthew (CONTR) <Matthew.Bauer@EE.DOE.Gov>; Goldstone, Michael <Michael.Goldstone@ee.doe.gov>; Miller, Jeremiah <Jeremiah.Miller@ee.doe.gov>; Walter, David <David.Walter@ee.doe.gov>; Graves, Andrew <Andrew.Graves@EE.Doe.Gov>; Gay, Charlie <Charlie.Gay@EE.DOE.Gov>; Jones-Albertus, Becca <Becca.Jones-Albertus@ee.doe.gov>; Mikrut, Jeremy <Jeremy.Mikrut@ee.doe.gov>; Dave Rensch McCauley <(b) (6)>; Krishnaswami, Hariharan (FELLOW) <Hariharan.Krishnaswami@EE.doe.gov>; Celik, Kemal (CONTR) <Kemal.Celik@EE.DOE.Gov>
Subject: RE: FY'18 FOA Strategy Meeting

Hi folks –

It looks like PA is shooting for 9am on Monday for the release of the SETO FOA.

Best,

Susanna

Susanna Murley
Solar Energy Technologies Office
U.S. Department of Energy
(o) 202.287.1637
(m)(b) (6)

From: Fricker, Kyle
Sent: Thursday, April 12, 2018 3:30 PM

To: Ferguson, Jamal (CONTR) <Jamal.Ferguson@ee.doe.gov>; Yuan, Guohui <Guohui.Yuan@EE.Doe.Gov>; Nilsen, Garrett <Garrett.Nilsen@ee.doe.gov>; Murley, Susanna (CONTR) <Susanna.Murley@EE.DOE.Gov>; Boyd, Michele A. (CONTR) <Michele.Boyd@ee.doe.gov>; Rensch-McCauley, Dave (FELLOW) <Dave.Rensch-McCauley@ee.doe.gov>; Kane, Victor <Victor.Kane@EE.Doe.Gov>; Tinker, Lenny <Lenny.Tinker@ee.Doe.Gov>; Shultz, Avi <Abraham.Shultz@EE.Doe.Gov>; Ulrich, Elaine <Elaine.Ulrich@ee.Doe.Gov>
Cc: Olson, Dana <Dana.Olson@Hq.Doe.Gov>; Hott, Rebecca (CONTR) <Rebecca.Hott@ee.doe.gov>; Bauer, Matthew (CONTR) <Matthew.Bauer@EE.DOE.Gov>; Goldstone, Michael <Michael.Goldstone@ee.doe.gov>; Miller, Jeremiah <Jeremiah.Miller@ee.doe.gov>; Walter, David <David.Walter@ee.doe.gov>; Graves, Andrew <Andrew.Graves@EE.Doe.Gov>; Gay, Charlie <Charlie.Gay@EE.DOE.Gov>; Jones-Albertus, Becca <Becca.Jones-Albertus@ee.doe.gov>; Mikrut, Jeremy <Jeremy.Mikrut@ee.doe.gov>; Dave Rensch McCauley <(b) (6)>; Krishnaswami, Hariharan (FELLOW) <Hariharan.Krishnaswami@EE.doe.gov>; Celik, Kemal (CONTR) <Kemal.Celik@EE.DOE.Gov>
Subject: RE: FY'18 FOA Strategy Meeting

The calendar we were looking at today can be found on SharePoint here:
https://eeredocman.ee.doe.gov/offices/EE-4S/Teams/Communications/FY18_SETO_FOA

I updated it based on the discussion today

-----Original Appointment-----

From: Ferguson, Jamal (CONTR)
Sent: Thursday, September 21, 2017 10:54 AM
To: Ferguson, Jamal (CONTR); Yuan, Guohui; Nilsen, Garrett; Murley, Susanna (CONTR); Boyd, Michele A. (CONTR); Rensch-McCauley, Dave (FELLOW); Kane, Victor; Tinker, Lenny; Shultz, Avi; Ulrich, Elaine
Cc: Olson, Dana; Hott, Rebecca (CONTR); Bauer, Matthew (CONTR); Goldstone, Michael; Fricker, Kyle; Miller, Jeremiah; Walter, David; Graves, Andrew; Gay, Charlie; Jones-Albertus, Becca; Mikrut, Jeremy; Dave Rensch McCauley; Krishnaswami, Hariharan (FELLOW); Celik, Kemal (CONTR)
Subject: FW: FY'18 FOA Strategy Meeting
When: Thursday, April 12, 2018 1:00 PM-2:00 PM (UTC-05:00) Eastern Time (US & Canada).
Where: 6075

-----Original Appointment-----

From: Ferguson, Jamal (CONTR)
Sent: Thursday, August 24, 2017 12:33 PM
To: Ferguson, Jamal (CONTR); Kane, Victor; Tinker, Lenny; Shultz, Avi; Yuan, Guohui; Nilsen, Garrett; Ulrich, Elaine
Cc: Gay, Charlie; Jones-Albertus, Becca; Olson, Dana; Rensch-McCauley, Dave (FELLOW); Hott,

Rebecca (CONTR); Bauer, Matthew (CONTR); Goldstone, Michael

Subject: FY'18 FOA Strategy Meeting

When: Occurs every Thursday effective 8/31/2017 from 1:00 PM to 2:00 PM (UTC-05:00) Eastern Time (US & Canada).

Where: 6075

Topic: **Discuss FY'18 FOA strategies**

Required Attendees: **PM and/or team delegate selected by PM**

***DO NOT DELETE OR CHANGE ANY OF THE TEXT BELOW THIS
LINE*****

WebEx information for your meeting scheduled on
<https://meetings.doe.gov/meetings> will replace this section after you save and
send this invitation.

DO NOT DELETE OR CHANGE ANY OF THE TEXT BELOW THIS LINE

Jamal Ferguson has scheduled this WebEx meeting.

FY'18 FOA Strategy Meeting

Host: Jamal Ferguson

When it's time, start or join the WebEx meeting from here:

[https://meetings.doe.gov/orion/joinmeeting.do?
MTID=0956d342ca6eaa61049164588c63fa03](https://meetings.doe.gov/orion/joinmeeting.do?MTID=0956d342ca6eaa61049164588c63fa03)

Access Information

Meeting Number: (b) (6)

Meeting Password: (b) (6)

Audio Connection

240-562-2222 (DOE)

Access Code:
(b) (6)

Hosts, need your host access code or key? Go to the meeting information page:
[https://meetings.doe.gov/orion/meeting/meetingInfo?
MTID=a46d04c4ea54366f2cc638201b7becab](https://meetings.doe.gov/orion/meeting/meetingInfo?MTID=a46d04c4ea54366f2cc638201b7becab)

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The meetings.doe.gov team

From: Fricker, Kyle
To: Bobo, Diana; Yuan, Guohui
Cc: Pfrangle, Clay
Subject: RE: SETO FY18 FOA
Date: Monday, August 27, 2018 4:30:02 PM

For Topic 1, (b) (5)

-Kyle

-----Original Message-----

From: Bobo, Diana
Sent: Monday, August 27, 2018 5:42 PM
To: Fricker, Kyle <Kyle.Fricker@EE.DOE.Gov>; Yuan, Guohui <Guohui.Yuan@EE.Doe.Gov>
Cc: Pfrangle, Clay <Clay.Pfrangle@EE.Doe.Gov>
Subject: RE: SETO FY18 FOA

What is the total amount for Topic 1 (b) (5)

-----Original Message-----

From: Bobo, Diana
Sent: Monday, August 27, 2018 3:38 PM
To: Fricker, Kyle <Kyle.Fricker@EE.DOE.Gov>; Yuan, Guohui <Guohui.Yuan@EE.Doe.Gov>
Cc: Pfrangle, Clay <Clay.Pfrangle@EE.Doe.Gov>
Subject: RE: SETO FY18 FOA

Please do not distribute this language further. If you have, please recall the message asap.

Thanks,
Diana

-----Original Message-----

From: Bobo, Diana
Sent: Monday, August 27, 2018 3:01 PM
To: Fricker, Kyle <Kyle.Fricker@EE.DOE.Gov>; Yuan, Guohui <Guohui.Yuan@EE.Doe.Gov>
Cc: Pfrangle, Clay <Clay.Pfrangle@EE.Doe.Gov>
Subject: FW: SETO FY18 FOA

Please see attached proposed new language for Topic 1.

Thank you,
Diana

-----Original Message-----

From: Passarelli, Derek
Sent: Monday, August 27, 2018 2:59 PM
To: Bobo, Diana <Diana.Bobo@ee.doe.gov>
Subject: RE: SETO FY18 FOA

Attached is the proposed new language for Topic Area 1. Take a look at it and let's discuss.

-----Original Message-----

From: Bobo, Diana

Sent: Monday, August 27, 2018 2:56 PM

To: Passarelli, Derek <Derek.Passarelli@ee.doe.gov>

Subject: SETO FY18 FOA

Hi Derek,

Please find attached the SETO FY18 FOA.

Thank you,
Diana

From: [Bobo, Diana](#)
To: [Mikrut, Jeremy](#); [Machin, Sarah \(CONTR\)](#)
Cc: [Pfrangle, Clay](#)
Subject: RE: NOI Req Request
Date: Thursday, August 30, 2018 1:34:03 PM

Thank you!

From: Mikrut, Jeremy
Sent: Thursday, August 30, 2018 1:30 PM
To: Machin, Sarah (CONTR) <Sarah.Machin@EE.doe.gov>
Cc: Bobo, Diana <Diana.Bobo@ee.doe.gov>; Pfrangle, Clay <Clay.Pfrangle@EE.Doe.Gov>
Subject: RE: NOI Req Request

Thanks Sarah. I just approved it.

Jeremy Mikrut
Technical Project Officer
Solar Energy Technologies Office
Golden, Colorado
Phone: 240-562-1289

From: Machin, Sarah (CONTR)
Sent: Thursday, August 30, 2018 1:27 PM
To: Mikrut, Jeremy <Jeremy.Mikrut@ee.doe.gov>
Cc: Bobo, Diana <Diana.Bobo@ee.doe.gov>; Pfrangle, Clay <Clay.Pfrangle@EE.Doe.Gov>
Subject: RE: NOI Req Request

Hi Jeremy,

The NOI req. is cut – it's 18EE006517.

~Sarah

From: Mikrut, Jeremy
Sent: Thursday, August 30, 2018 2:52 PM
To: Machin, Sarah (CONTR) <Sarah.Machin@EE.doe.gov>
Cc: Bobo, Diana <Diana.Bobo@ee.doe.gov>; Pfrangle, Clay <Clay.Pfrangle@EE.Doe.Gov>
Subject: NOI Req Request

Hi Sarah,

Please process a requisition for an NOI.

Title: SETO - System Integration Topic Area 1 NOI (Title may change)

NOI# is DE-FOA-0001986

Jeremey Mikrut
Technical Project Officer
Solar Energy Technologies Office
Golden, Colorado
Phone: 240-562-1289

From: [Bobo, Diana](#)
To: [Pfrangle, Clay](#)
Subject: FW: NOI Sensitivity Check
Date: Thursday, August 30, 2018 1:45:20 PM
Attachments: [EERE 130.1 - COMS - Public Announcement Template_0.docx](#)
[EERE 130.2 - COMS - Funding Questionnaire \(for Public Announcements\).docx](#)

FYI. I asked Derek who could authorize an exception.

-----Original Message-----

From: Murley, Susanna (CONTR)
Sent: Thursday, August 30, 2018 1:01 PM
To: Bobo, Diana <Diana.Bobo@ee.doe.gov>
Subject: RE: NOI Sensitivity Check

Hi Diana -

For NOIs, we need to get them on the policy calendar at least 2 weeks prior to their release. I'm assuming if you're working with EERE FO on this, you can probably get an exception. We generally pair an NOI with an announcement of some kind, so we'd also have to draft the press release/email for it. In addition, we need to get the attached templates filled out. These are more relevant to FOAs, but we should fill them out to the best of our ability.

Finally, of course, we'd need Charlie's blessing.

Best,

Susanna

Susanna Murley
Strategic Support Team Lead
The Building People, LLC | U.S. Department of Energy
Contractor supporting the Solar Energy Technologies Office
Office of Energy Efficiency and Renewable Energy
Office: 202.287.1637 | Cell: (b) (6)

-----Original Message-----

From: Bobo, Diana
Sent: Thursday, August 30, 2018 2:53 PM
To: Murley, Susanna (CONTR) <Susanna.Murley@EE.DOE.Gov>
Subject: NOI Sensitivity Check

Hi Susanna,

We may have to post a Notice of Intent very quickly. What do you need to request the 24 hour sensitivity check? If we have to request the sensitivity check today or tomorrow, are you available?

Thank you,
Diana R. Bobo
Contracting Officer, Team Lead
Financial Assistance Office, Solar Program
Golden Field Office

Office of Energy Efficiency and Renewable Energy
U.S. Department of Energy

Remove all blue instructional text before the document is finalized

I. General Info

- A. Name of proposed public announcement: [Enter Short Title]
- B. Type of DOE work for public announcement: [FOA, Selections, RFI/NOI, Report, New Resource, etc.]
- C. Brief Description: [Provide 2-4 sentences on the overall purpose of the FOA or selections (or other initiative), approximate funding amount, the major focus areas of the work, and the types of target organizations. Please also provide a list of the types of projects and number we expect to fund (for FOAs) or the number of projects, specific project descriptions, and their locations (for selections). If not all info is not available, please provide the most you can.]

Sample Description: "The Energy Department will announce the selection of one project to receive nearly \$6 million to improve the economics of industrial-scale lignocellulosic feedstock harvest, collection, preprocessing, transport and quality management systems. The selected project will conduct demonstration operations in Iowa, Kansas, Virginia and Tennessee, and will concentrate efforts on corn stover and switchgrass. This project will design and demonstrate an advanced biomass supply chain to efficiently harvest, collect, transport and process high impact, high quality feedstocks into biofuels, thereby reducing the manpower and equipment required."

- D. Target date for announcement: [Estimate at least what week, if not day]

II. Announcement Strategies

- A. Types of proposed public announcement: [e.g. Press release, progress alert, social media, program email blast or newsletter, posting on program's website, no announcement, or other]
- B. Types of proposed stakeholder engagement: [e.g. Event, stakeholder email blast, webinar, etc.]
- C. Type of proposed congressional engagement: [e.g. Event, meeting, joint announcement, etc.]

III. Notifications

Types of congressional notifications required: [e.g. for selections: 14-day, 311s, and 48-hour; for FOAs: 72-hour for FOAs over \$50 million]

IV. Comments

[Please note any sensitivities, special considerations, noteworthy asides, etc.]

V. Approvals

EERE Comms POC who reviewed initial announcement strategy: [Enter Name]

Public Affairs POC who approved announcement strategy: [Enter Name]

Well in advance of sending up requests for "green light" clearance for actions that are associated with DOE funding (i.e. posting all FOAs, starting negotiations with selectees, starting DNFAAs, etc.), CI, CFO and PA are asking our offices to supply answers for the following questions. These questions are frequently asked by the appropriations committees upon notification. Some of the questions may not be relevant to every situation, so answering "N/A" is fine when appropriate.

Funding Questionnaire (for Public Announcements)

FOA name and number: [Enter official name and FOA #]

1. Were these activities included in the Department's budget request for the current fiscal year, and under what appropriation line, program and subprogram levels, if possible?
[Enter Appropriate Information]
2. Is there any prohibition or restriction imposed on this subprogram/activity in the current fiscal year's Appropriations House report, Senate report, or conference explanatory statement?
[Yes/No]
3. Does this FOA or award represent a new start?
[Yes/No]
4. Have these projects or activities been funded under a different name in previous years?
[Yes/No]

If so, how does this new initiative compare/contrast to the previous initiative?

[Enter Appropriate Information]

List name of previous initiative and years.

[Enter Initiative and Years]

5. What is the amount funded for the new award, and from what fiscal year(s) will these funds be drawn?
[Enter Amount and Years]
What are the terms of funding - one year upfront, multi-year, subject to appropriation?
[Select Term]
6. Does the project include cost-share?
[Yes/No]

For selections announcements:

What is the name, location, and nine-digit zip code of each of the selectees? Please list.

Name	Location (city, state)	9-digit zip code

From: [Bobo, Diana](#)
To: [Pfrangle, Clay](#)
Subject: Plan to post NOI
Date: Thursday, August 30, 2018 3:58:24 PM

Hi Clay,

Derek said he took care of the sensitivity check. He asked if we can post the NOI and send the notification to applicants under Topic 1 tomorrow at noon.

Thank you,
Diana

From: Gav, Charlie
To: Anderson, Christopher; Bing, Christine; Bob, Brian; Fricker, Kyle; Goldstone, Michael; Golnas, Anastasios; Graves, Andrew; Jones-Albertus, Becca; Kane, Victor; Mapes, Marie; Mikrut, Jeremy; Miller, Jeremiah; Nilsen, Garrett; Olson, Dana; Phillipsen, Christian; Ruedkert, Thomas; Shultz, Avi; Stricker, Daniel; Tinker, Lenny; Ulrich, Elaine; Vauss, Ebony; Vijaykumar, Rajgopal; Walter, David; Yuen, Guohui; Bobo, Diana; Pfrangle, Clay; Bauer, Matthew (CONTR); Baylor, Melisha (CONTR); Boyd, Michele A. (CONTR); Bristol, Jennifer (CONTR); Celik, Kemal (CONTR); Clark, Patricia (CONTR); Collins, Shamara (FELLOW); Dawson, Andrew (CONTR); Ebers, Anna (FELLOW); Ferguson, Jamal (CONTR); Huang, Susan (CONTR); Inly, Rachelle (FELLOW); Irwin, Levi (CONTR); Jaishankar, Shubha (CONTR); Jones, Tiffany (CONTR); Kozinsky, Inna (CONTR); Krishnaswami, Hariharan (FELLOW); Lausten, Mark (CONTR); Machin, Sarah (CONTR); Marchetti, Emily (CONTR); Mees, Jacob (CONTR); Murley, Susanna (CONTR); Pecora, Emanuele E. (FELLOW); Prescott, Andru (CONTR); Qusalbaty, Ammar (CONTR); Renci-McCauley, Dave (FELLOW); Sheoran, Manav (CONTR); Truong, Nancy (CONTR); Washelesky, Dawn (CONTR); Zibulsky, Leah (CONTR)
Subject: Today's FOA Status Update : 10:30 a.m. EDT
Date: Friday, August 31, 2018 5:03:11 AM

Good morning!

Jamal will soon be sending out a meeting location and dial-in for today's update and check-in.....

- Charlie
202-287-1987

From: Gay, Charlie
To: Anderson, Christopher; Bing, Christine; Bob, Brian; Fricker, Kyle; Goldstone, Michael; Golnas, Anastasios; Graves, Andrew; Jones-Albertus, Becca; Kane, Victor; Manes, Marie; Mikrut, Jeremy; Miller, Jeremiah; Nilsen, Garrett; Olson, Dana; Philipsen, Christian; Rueckert, Thomas; Shultz, Avi; Stricker, Daniel; Tinker, Lenny; Ulrich, Elaine; Vauss, Ebony; Vijaykumar, Rajgopal; Walter, David; Yuan, Guohui; Bobo, Diana; Pfrangle, Clay; Bauer, Matthew (CONTR); Baylor, Meisha (CONTR); Boyd, Michele A. (CONTR); Bristol, Jennifer (CONTR); Celik, Kemal (CONTR); Clark, Patricia (CONTR); Collins, Shamara (FELLOW); Dawson, Andrew (CONTR); Ebers, Anna (FELLOW); Ferguson, Jamal (CONTR); Huang, Susan (CONTR); Ihly, Rachele (FELLOW); Irwin, Levi (CONTR); Jaishankar, Shubha (CONTR); Jones, Tiffany (CONTR); Kozinsky, Inna (CONTR); Krishnaswami, Harsharan (FELLOW); Lausten, Mark (CONTR); Machin, Sarah (CONTR); Marchetti, Emily (CONTR); Mees, Jacob (CONTR); Murley, Susanna (CONTR); Pecora, Emanuele F. (FELLOW); Prescod, Andru (CONTR); Qusaibat, Ammar (CONTR); Rensch-McCauley, Dave (FELLOW); Sheoran, Manav (CONTR); Truong, Nancy (CONTR); Washelesky, Dawn (CONTR); Zibulsky, Leah (CONTR)
Subject: FW: 24-hour sensitivity check for: SETO's Advanced Solar Systems Integration Technologies Notice of Intent
Date: Friday, August 31, 2018 5:18:57 AM
Attachments: EERE 103 - Notice of Intent (NOI) DE-FOA-0001986.Final.20180830.docx

Hi Team:

Below and attached is a copy of the most recent action regarding the FOA – please do not forward. We will discuss at our 10:30 a.m. meeting.

- Charlie
 202-287-1987

From: Horst, John

Sent: Thursday, August 30, 2018 7:14 PM

To: Fitzsimmons, Alexander <Alexander.Fitzsimmons@ee.doe.gov>; Jayne, Kevin A. <Kevin.Jayne@ee.doe.gov>; Jones, Dylan <Dylan.Jones@EE.Doe.Gov>; Gruse, Jessica (CONTR) <Jessica.Gruse@EE.DOE.Gov>; Wahlert, Kayt <Kayt.Wahlert@ee.Doe.Gov>; Mills, Allison <Allison.Mills@hq.doe.gov>; Oliver, Martha <Martha.Oliver@hq.doe.gov>; Brace, Conner <Conner.Brace@hq.doe.gov>; EERE Legislative Affairs <EERELegAffairs@EE.Doe.Gov>; Rivers, Jennifer <Jennifer.Rivers@ee.doe.gov>; EEREStakeholderEngagement <EEREStakeholderEngagement@EE.Doe.Gov>

Cc: Unruh, Timothy <Timothy.Unruh@EE.Doe.Gov>; Hamos, Ian <Ian.Hamos@EE.doe.gov>; Gay, Charlie <Charlie.Gay@EE.DOE.Gov>; Murley, Susanna (CONTR) <Susanna.Murley@EE.DOE.Gov>; Vauss, Ebony <Ebony.Vauss@ee.doe.gov>; Bristol, Jennifer (CONTR) <Jennifer.Bristol@EE.doe.gov>; Brodie, Pamela <Pamela.Brodie@ee.Doe.Gov>; Jacob, Bindu <Bindu.Jacob@ee.doe.gov>; DeCesaro, Jennifer <Jennifer.Decesaro@ee.doe.gov>; Barendsen, Eric <Eric.Barendsen@ee.doe.gov>; Sher, Jono <jono.sher@ee.doe.gov>; Stowers, Christina (CONTR) <Christina.Stowers@EE.Doe.Gov>; Cone, Kristin (CONTR) <Kristin.Cone@EE.DOE.Gov>; Kane, Victor <Victor.Kane@EE.Doe.Gov>; Fricker, Kyle <Kyle.Fricker@EE.DOE.Gov>; Goldstone, Michael <Michael.Goldstone@ee.doe.gov>

Subject: 24-hour sensitivity check for: SETO's Advanced Solar Systems Integration Technologies Notice of Intent

Hello,

EERE's Solar Energy Technologies Office (SETO) would like to issue a Notice of Intent (NOI) for its "Advanced Solar Systems Integration Technologies." The focus supports early-stage research and development to improve the performance and flexibility of solar technologies that contribute to a reliable and resilient U.S. electric grid. SETO invests in innovative research efforts that securely

integrate more solar energy into the grid, enhance the use, storage and dispatch of solar energy, and lower solar electricity costs.

Areas of Interest:

Solar Grid Integration – This topic will support applications to research and field validate unique and innovative solutions that will improve the resiliency of the Energy Sector’s capability to withstand all hazards; focusing on cyber and physical vectors. Specifically, the solutions should identify the strategic location of solar photovoltaic (PV) systems that will ensure the Energy Sector provides continuity of service in the face of wide spread and coordinated threats.

Solar Situational Awareness and Analysis – This topic will support applications to research and field validate unique and innovative solutions that will improve the resiliency of the Energy Sector’s capability to withstand all hazards; focusing on cyber and physical vectors. Specifically, the solutions should enhance operator capability to observe solar systems deployed throughout the bulk power systems or associated transmission to distribution substations or Behind-the-Meter (BTM) solar including but not limited to battery storage, systems controls, and demand response. Primary focus areas include solar photovoltaic integrated sensor technologies, secure and robust electricity supply delivery and communication tools, advanced data analytics including Artificial Intelligence and Machine to Machine capabilities, and voltage testing.

Solar Technology Transfer – This topic will explore unique and innovative approaches to accelerate the transfer of solar system solutions that will improve the resiliency of the Energy Sector’s capability to withstand all hazards; focusing on cyber and physical vectors. Potential areas of interest include, but are not limited to, projects or models that deploy alternative capital, for technology R&D transfer, incentivize industry-researcher collaboration, leverage existing facilities or capabilities, data and build approaches and methods that serve to drive down the hardware cost and ensure solutions, validation, certifications, resilience and electricity supply to withstand wide spread and coordinated threats compatible with Topic 1.1 and Topic 1.2

EERE envisions awarding multiple financial assistance awards in the form of cooperative agreements. The estimated period of performance for each award will be approximately 3 years. For more, see the attached NOI. (b) (5)

(b) (5) Please reply all with any questions, comments, or concerns.

Thanks,
John

John Horst, APR
U.S. Department of Energy

Energy Efficiency and Renewable Energy
Communications | Media Relations
Office: 720-356-1580
Mobile: (b) (6)

Notice of Intent No. DE-FOA-0001986**Notice of Intent to Issue
Funding Opportunity Announcement No. DE-FOA-0001987**

The Office of Energy Efficiency and Renewable Energy (EERE) intends to issue, on behalf of the Solar Energy Technology Office, a Funding Opportunity Announcement (FOA) entitled "Advanced Solar Systems Integration Technologies".

This FOA supports the mission of the Solar Energy Technologies Office (SETO) which is to support early-stage research and development to improve the performance and flexibility of solar technologies that contribute to a reliable and resilient U.S. electric grid. The office invests in innovative research efforts that securely integrate more solar energy into the grid, enhance the use, storage and dispatch of solar energy, and lower solar electricity costs.

DOE is committed to improving the affordability of energy technologies and strengthening the Energy Sector's capability to withstand cyber and physical threats, including natural disasters. Improving the strategic location and situational awareness of solar systems can help ensure continuity of service in the face of widespread and coordinated threats. Developing innovative approaches to accelerate the transfer of solar system solutions that will improve Energy Sector resilience is also a priority.

It is anticipated that the FOA may include the following Areas of Interest:

Topic 1.1 Solar Grid Integration

This topic will support applications to research and field validate unique and innovative solutions that will improve the resiliency of the Energy Sector's capability to withstand all hazards; focusing on cyber and physical vectors. Specifically, the solutions should identify the strategic location of solar photovoltaic (PV) systems that will ensure the Energy Sector provides continuity of service in the face of wide spread and coordinated threats. These solutions can be deployed throughout the bulk power systems or associated transmission to distribution substations. It is expected that the same design concepts will be applicable for energy storage and other distributed energy resources (DERs). The approaches will test the systems' ability to operate and adapt at both steady and degraded states. Applications must consider diverse DER options (e.g. photovoltaics, energy storage, and flexible load) available as well as power systems engineering alternatives, and demonstrate the benefits of the proposed solutions. It should also be shown in these solutions how a fleet of multiple photovoltaics systems from multiple locations will be able to respond to fast changing conditions under normal operations and provide power to critical loads during grid outages – with consideration of other DER

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options and distribution system constraints. Example projects may include, but are not limited to, new design and use-case concepts, essential reliability services, adaptive capabilities, voltage support, previously un contemplated and unique capabilities and control hardware and software innovations for smart PV inverters and DER management systems. Applications must have an assessment of economic viability of the proposed system, activity or component in the respective part of the project.

Applicant's solar photovoltaic projects may require working with critical infrastructure owners and operators and state, local, tribal and territories entities to take proactive steps to manage risk and strengthen the security and resilience of the Nation's critical infrastructure, considering all hazards that could have a debilitating impact on national security, economic stability, public health and safety, or any combination thereof. These solar photovoltaic projects shall seek to reduce vulnerabilities, minimize consequences, identify and disrupt threats, and hasten response and recovery efforts related to critical infrastructure to ensure public health and safety while improving national security and economic security.

Topic 1.2 Solar Situational Awareness and Analysis

This Topic will support applications to research and field validate unique and innovative solutions that will improve the resiliency of the Energy Sector's capability to withstand all hazards; focusing on cyber and physical vectors. Specifically, the solutions should enhance operator capability to observe solar systems deployed throughout the bulk power systems or associated transmission to distribution substations or Behind-the-Meter (BTM) solar including but not limited to battery storage, systems controls, and demand response. Primary focus areas include solar photovoltaic integrated sensor technologies, secure and robust electricity supply delivery and communication tools, advanced data analytics including Artificial Intelligence and Machine to Machine capabilities, and voltage testing. Projects with secondary focus areas may also be considered which include the integration of observed data into planning, operations and business unit systems that would operate at both steady and degraded states. Applications must have an assessment of economic viability of the proposed system, activity or component in the respective part of the project.

Applicant's solar situational awareness and analysis projects may require working with critical infrastructure owners and operators and state, local, tribal and territories entities to take proactive steps to manage risk and strengthen the security and resilience of the Nation's critical infrastructure, considering all hazards that could have a debilitating impact on national security, economic stability, public health and safety, or any combination thereof. These projects shall seek to contribute to one or more risk components: reduce vulnerabilities, minimize consequences, identify and disrupt threats, and/or hasten response and recovery efforts related to critical infrastructure to ensure public health and safety while improving national security and economic security.

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Topic 1.3 Solar Technology Transfer

This topic will explore unique and innovative approaches to accelerate the transfer of solar system solutions that will improve the resiliency of the Energy Sector's capability to withstand all hazards; focusing on cyber and physical vectors. Potential areas of interest include, but are not limited to, projects or models that deploy alternative capital, for technology R&D transfer, incentivize industry-researcher collaboration, leverage existing facilities or capabilities, data and build approaches and methods that serve to drive down the hardware cost and ensure solutions, validation, certifications, resilience and electricity supply to withstand wide spread and coordinated threats compatible with Topic 1.1 and Topic 1.2

Applicant's solar technology transfer projects may require working with critical infrastructure owners and operators and state, local, tribal and territories entities to take proactive steps to manage risk and strengthen the security and resilience of the Nation's critical infrastructure, considering all hazards that could have a debilitating impact on national security, economic stability, public health and safety, or any combination thereof. These projects shall seek to contribute to one or more risk components: reduce vulnerabilities, minimize consequences, identify and disrupt threats, and/or hasten response and recovery efforts related to critical infrastructure to ensure public health and safety while improving national security and economic security.

EERE envisions awarding multiple financial assistance awards in the form of cooperative agreements. The estimated period of performance for each award will be approximately 3 years.

This Notice is issued so that interested parties are aware of the EERE's intention to issue this FOA in the near term. All of the information contained in this Notice is subject to change. EERE will not respond to questions concerning this Notice. Once the FOA has been released, EERE will provide an avenue for potential Applicants to submit questions.

EERE plans to issue the FOA on or about September 15, 2018 via the EERE Exchange website <https://eere-exchange.energy.gov/>. If Applicants wish to receive official notifications and information from EERE regarding this FOA, they should register in EERE Exchange. When the FOA is released, applications will be accepted only through EERE Exchange.

In anticipation of the FOA being released, Applicants are advised to complete the following steps, which are **required** for application submission:

- Register and create an account in EERE Exchange at <https://eere-exchange.energy.gov/>. This account will allow the user to register for any open EERE FOAs that are currently in EERE Exchange. It is recommended that each organization or business unit, whether acting as a team or a single entity, **use only** one account as the contact point for each submission.

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Questions related to the registration process and use of the EERE Exchange website should be submitted to: EERE-ExchangeSupport@hq.doe.gov

- Obtain a Dun and Bradstreet Data Universal Numbering System (DUNS) number (including the plus 4 extension, if applicable) at <http://fedgov.dnb.com/webform>
- Register with the System for Award Management (SAM) at <https://www.sam.gov>. Designating an Electronic Business Point of Contact (EBiz POC) and obtaining a special password called an MPIN are important steps in SAM registration. Please update your SAM registration annually.
- Register in FedConnect at <https://www.fedconnect.net/>. To create an organization account, your organization's SAM MPIN is required. For more information about the SAM MPIN or other registration requirements, review the FedConnect Ready, Set, Go! Guide at https://www.fedconnect.net/FedConnect/Marketing/Documents/FedConnect_Ready_Set_Go.pdf
- Register in Grants.gov to receive automatic updates when Amendments to a FOA are posted. However, please note that applications will not be accepted through Grants.gov. <http://www.grants.gov/>. All applications must be submitted through EERE Exchange.

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From: [Bobo, Diana](#)
To: [Pfrangle, Clay](#)
Subject: FW: SETO Notice and Notice of Intent
Date: Friday, August 31, 2018 8:24:23 AM
Attachments: [SETO FOA Topic Area 1 Notice with NOI 20180831 Final.docx](#)

Hi Clay,

Attached is the notification to send to the Topic 1 applicants. Can you please send me a draft from the FOA inbox?

Also, please do not forward this to anyone.

Thanks,
Diana

SETO FOA TOPIC AREA 1 NOTICE

On behalf of the Department of Energy (DOE), Office of Energy Efficiency and Renewable Energy (EERE), we would like to thank you for submitting an application in response to the Solar Energy Technology Office (SETO) FY18 Funding Opportunity Announcement (FOA) DE-FOA-0001840. We are writing to inform you of a change to Topic Area 1 of the FOA, Advanced Solar Systems Integration Technologies.

DOE is committed to improving the affordability of energy technologies and strengthening the Energy Sector's capability to withstand cyber and physical threats, including natural disasters. Improving the strategic location and situational awareness of solar systems can help ensure continuity of service in the face of widespread and coordinated threats. Developing innovative approaches to accelerate the transfer of solar system solutions that will improve Energy Sector resilience is also a priority.

In order to better align the FOA objectives to the mission objectives of DOE, EERE plans to revise Topic Area 1 and issue a new FOA. **Because a new FOA is planned, if you would like to apply to the revised Topic Area 1, an application must be submitted under the new FOA in EERE Exchange by the deadline.** Please carefully review the revised emphasis and program objectives when the new FOA is issued, and revise your application accordingly.

On behalf of EERE, we would like to express our sincere appreciation for the significant time and effort you and your team invested in preparing this application, and for your interest and participation in the EERE Solar Energy Technologies Office activities. We hope that you will continue to participate in future activities and programs with EERE.

The Notice of Intent to Issue Funding Opportunity Announcement No. DE-FOA-0001987 is provided below for your reference.

Notice of Intent No. DE-FOA-0001986**Notice of Intent to Issue
Funding Opportunity Announcement No. DE-FOA-0001987**

The Office of Energy Efficiency and Renewable Energy (EERE) intends to issue, on behalf of the Solar Energy Technology Office, a Funding Opportunity Announcement (FOA) entitled "Advanced Solar Systems Integration Technologies".

This FOA supports the mission of the Solar Energy Technologies Office (SETO) which is to support early-stage research and development to improve the performance and flexibility of solar technologies that contribute to a reliable and resilient U.S. electric grid. The office invests in innovative research efforts that securely integrate more solar energy into the grid, enhance the use, storage and dispatch of solar energy, and lower solar electricity costs.

DOE is committed to improving the affordability of energy technologies and strengthening the Energy Sector's capability to withstand cyber and physical threats, including natural disasters. Improving the strategic location and situational awareness of solar systems can help ensure continuity of service in the face of widespread and coordinated threats. Developing innovative approaches to accelerate the transfer of solar system solutions that will improve Energy Sector resilience is also a priority.

It is anticipated that the FOA may include the following Areas of Interest:

Topic 1.1 Solar Grid Integration

This topic will support applications to research and field validate unique and innovative solutions that will improve the resiliency of the Energy Sector's capability to withstand all hazards; focusing on cyber and physical vectors. Specifically, the solutions should identify the strategic location of solar photovoltaic (PV) systems that will ensure the Energy Sector provides continuity of service in the face of wide spread and coordinated threats. These solutions can be deployed throughout the bulk power systems or associated transmission to distribution substations. It is expected that the same design concepts will be applicable for energy storage and other distributed energy resources (DERs). The approaches will test the systems' ability to operate and adapt at both steady and degraded states. Applications must consider diverse DER options (e.g. photovoltaics, energy storage, and flexible load)

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available as well as power systems engineering alternatives, and demonstrate the benefits of the proposed solutions. It should also be shown in these solutions how a fleet of multiple photovoltaics systems from multiple locations will be able to respond to fast changing conditions under normal operations and provide power to critical loads during grid outages – with consideration of other DER options and distribution system constraints. Example projects may include, but are not limited to, new design and use-case concepts, essential reliability services, adaptive capabilities, voltage support, previously un contemplated and unique capabilities and control hardware and software innovations for smart PV inverters and DER management systems. Applications must have an assessment of economic viability of the proposed system, activity or component in the respective part of the project.

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Topic 1.2 Solar Situational Awareness and Analysis

This Topic will support applications to research and field validate unique and innovative solutions that will improve the resiliency of the Energy Sector's capability to withstand all hazards; focusing on cyber and physical vectors. Specifically, the solutions should enhance operator capability to observe solar systems deployed throughout the bulk power systems or associated transmission to distribution substations or Behind-the-Meter (BTM) solar including but not limited to battery storage, systems controls, and demand response. Primary focus areas include solar photovoltaic integrated sensor technologies, secure and robust electricity supply delivery and communication tools, advanced data analytics including Artificial Intelligence and Machine to Machine capabilities, and voltage testing. Projects with secondary focus areas may also be considered which include the integration of observed data into planning, operations and business unit systems that would operate at both steady and degraded states. Applications must have an assessment of economic viability of the proposed system, activity or component in the respective part of the project.

Applicant's solar situational awareness and analysis projects may require working with critical infrastructure owners and operators and state, local, tribal and territories entities to take proactive steps to manage risk and strengthen the security and resilience of the Nation's critical infrastructure, considering all hazards that could have a debilitating impact on national security, economic stability, public health and safety, or any combination thereof. These projects shall seek to contribute to one or

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more risk components: reduce vulnerabilities, minimize consequences, identify and disrupt threats, and/or hasten response and recovery efforts related to critical infrastructure to ensure public health and safety while improving national security and economic security.

Topic 1.3 Solar Technology Transfer

This topic will explore unique and innovative approaches to accelerate the transfer of solar system solutions that will improve the resiliency of the Energy Sector's capability to withstand all hazards; focusing on cyber and physical vectors. Potential areas of interest include, but are not limited to, projects or models that deploy alternative capital, for technology R&D transfer, incentivize industry-researcher collaboration, leverage existing facilities or capabilities, data and build approaches and methods that serve to drive down the hardware cost and ensure solutions, validation, certifications, resilience and electricity supply to withstand wide spread and coordinated threats compatible with Topic 1.1 and Topic 1.2

Applicant's solar technology transfer projects may require working with critical infrastructure owners and operators and state, local, tribal and territories entities to take proactive steps to manage risk and strengthen the security and resilience of the Nation's critical infrastructure, considering all hazards that could have a debilitating impact on national security, economic stability, public health and safety, or any combination thereof. These projects shall seek to contribute to one or more risk components: reduce vulnerabilities, minimize consequences, identify and disrupt threats, and/or hasten response and recovery efforts related to critical infrastructure to ensure public health and safety while improving national security and economic security.

EERE envisions awarding multiple financial assistance awards in the form of cooperative agreements. The estimated period of performance for each award will be approximately 3 years.

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EERE plans to issue the FOA on or about September 15, 2018 via the EERE Exchange website <https://eere-exchange.energy.gov/>. If Applicants wish to receive official notifications and information from EERE regarding this FOA, they should register in EERE Exchange. When the FOA is released, applications will be accepted only through EERE Exchange.

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- Obtain a Dun and Bradstreet Data Universal Numbering System (DUNS) number (including the plus 4 extension, if applicable) at <http://fedgov.dnb.com/webform>
- Register with the System for Award Management (SAM) at <https://www.sam.gov>. Designating an Electronic Business Point of Contact (EBiz POC) and obtaining a special password called an MPIN are important steps in SAM registration. Please update your SAM registration annually.
- Register in FedConnect at <https://www.fedconnect.net/>. To create an organization account, your organization's SAM MPIN is required. For more information about the SAM MPIN or other registration requirements, review the FedConnect Ready, Set, Go! Guide at [https://www.fedconnect.net/FedConnect/Marketing/Documents/FedConnect Ready Set Go.pdf](https://www.fedconnect.net/FedConnect/Marketing/Documents/FedConnect%20Ready%20Set%20Go.pdf)
- Register in Grants.gov to receive automatic updates when Amendments to a FOA are posted. However, please note that applications will not be accepted through Grants.gov. <http://www.grants.gov/>. All applications must be submitted through EERE Exchange.

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From: [Bobo, Diana](#)
To: [SETO.FOA](#); [Pfrangle, Clay](#)
Subject: FY18 SETO FOA Topic Area 1 Notice
Date: Friday, August 31, 2018 8:50:10 AM

I added Notice to the subject line.

We need to add the NOI either as an attachment or below. The last line states it is included below.

Also, I asked Derek if there is a preference for the signature line.

-----Original Message-----

From: SETO.FOA
Sent: Friday, August 31, 2018 8:35 AM
To: Bobo, Diana <Diana.Bobo@ee.doe.gov>
Subject: FY 18 SETO FOA Topic Area 1

Dear Applicant,

On behalf of the Department of Energy (DOE), Office of Energy Efficiency and Renewable Energy (EERE), we would like to thank you for submitting an application in response to the Solar Energy Technology Office (SETO) FY18 Funding Opportunity Announcement (FOA) DE-FOA-0001840. We are writing to inform you of a change to Topic Area 1 of the FOA, Advanced Solar Systems Integration Technologies.

DOE is committed to improving the affordability of energy technologies and strengthening the Energy Sector's capability to withstand cyber and physical threats, including natural disasters. Improving the strategic location and situational awareness of solar systems can help ensure continuity of service in the face of widespread and coordinated threats. Developing innovative approaches to accelerate the transfer of solar system solutions that will improve Energy Sector resilience is also a priority.

In order to better align the FOA objectives to the mission objectives of DOE, EERE plans to revise Topic Area 1 and issue a new FOA. Because a new FOA is planned, if you would like to apply to the revised Topic Area 1, an application must be submitted under the new FOA in EERE Exchange by the deadline. Please carefully review the revised emphasis and program objectives when the new FOA is issued, and revise your application accordingly.

On behalf of EERE, we would like to express our sincere appreciation for the significant time and effort you and your team invested in preparing this application, and for your interest and participation in the EERE Solar Energy Technologies Office activities. We hope that you will continue to participate in future activities and programs with EERE.

The Notice of Intent to Issue Funding Opportunity Announcement No. DE-FOA-0001987 is provided below for your reference.

SETO FOA Team

The information contained in this e-mail message may be privileged, confidential and protected from disclosure. If you are not the intended recipient, any dissemination, distribution, or copying is strictly prohibited. If you think that you have received this e-mail message in error, please contact the sender and delete the original message immediately.

From: Bobo, Diana
To: Pfrangle, Clay
Subject: FW: FY18 SETO FOA Topic Area 1 Notice
Date: Friday, August 31, 2018 8:51:05 AM

Let's also take off the automatic reply.

From: SETO.FOA
Sent: Friday, August 31, 2018 8:50 AM
To: Bobo, Diana <Diana.Bobo@ee.doe.gov>
Subject: Automatic reply: FY18 SETO FOA Topic Area 1 Notice

Thank you for contacting the SETO.FOA@ee.doe.gov inbox. The inbox is officially closed for Q&A as per Section VII:

Questions must be submitted not later than 3 business days prior to the application due date and time.

In addition please note in Section VII:

EERE personnel are prohibited from communicating (in writing or otherwise) with applicants regarding the FOA except through the established question and answer process..

Thank you,
SETO FOA Team

From: SETO.FOA
Subject: FY18 SETO FOA Topic Area 1 Notice
Date: Friday, August 31, 2018 1:00:43 PM
Attachments: Notice of Intent (NOI) DE-FOA-0001986.docx

Dear Applicant,

On behalf of the Department of Energy (DOE), Office of Energy Efficiency and Renewable Energy (EERE), we would like to thank you for submitting an application in response to the Solar Energy Technology Office (SETO) FY18 Funding Opportunity Announcement (FOA) DE-FOA-0001840. We are writing to inform you of a change to Topic Area 1 of the FOA, Advanced Solar Systems Integration Technologies.

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On behalf of EERE, we would like to express our sincere appreciation for the significant time and effort you and your team invested in preparing this application, and for your interest and participation in the EERE Solar Energy Technologies Office activities. We hope that you will continue to participate in future activities and programs with EERE.

The Notice of Intent to Issue Funding Opportunity Announcement No. DE-FOA-0001987 is provided as an attachment to this email for your reference.

Thank you,
U.S. Department of Energy
Office of Energy Efficiency and Renewable Energy

The information contained in this e-mail message may be privileged, confidential and protected from disclosure. If you are not the intended recipient, any dissemination, distribution, or copying is strictly prohibited. If you think that you have received this e-mail message in error, please contact the sender and delete the original message immediately.

Notice of Intent No. DE-FOA-0001986

Notice of Intent to Issue Funding Opportunity Announcement No. DE-FOA-0001987

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This FOA supports the mission of the Solar Energy Technologies Office (SETO) which is to support early-stage research and development to improve the performance and flexibility of solar technologies that contribute to a reliable and resilient U.S. electric grid. The office invests in innovative research efforts that securely integrate more solar energy into the grid, enhance the use, storage and dispatch of solar energy, and lower solar electricity costs.

DOE is committed to improving the affordability of energy technologies and strengthening the Energy Sector's capability to withstand cyber and physical threats, including natural disasters. Improving the strategic location and situational awareness of solar systems can help ensure continuity of service in the face of widespread and coordinated threats. Developing innovative approaches to accelerate the transfer of solar system solutions that will improve Energy Sector resilience is also a priority.

It is anticipated that the FOA may include the following Areas of Interest:

Topic 1.1 Solar Grid Integration

This topic will support applications to research and field validate unique and innovative solutions that will improve the resiliency of the Energy Sector's capability to withstand all hazards; focusing on cyber and physical vectors. Specifically, the solutions should identify the strategic location of solar photovoltaic (PV) systems that will ensure the Energy Sector provides continuity of service in the face of wide spread and coordinated threats. These solutions can be deployed throughout the bulk power systems or associated transmission to distribution substations. It is expected that the same design concepts will be applicable for energy storage and other distributed energy resources (DERs). The approaches will test the systems' ability to operate and adapt at both steady and degraded states. Applications must consider diverse DER options (e.g. photovoltaics, energy storage, and flexible load) available as well as power systems engineering alternatives, and demonstrate the benefits of the proposed solutions. It should also be shown in these solutions how a fleet of multiple photovoltaics systems from multiple locations will be able to respond to fast changing conditions under normal operations and provide power to critical loads during grid outages – with consideration of other DER

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options and distribution system constraints. Example projects may include, but are not limited to, new design and use-case concepts, essential reliability services, adaptive capabilities, voltage support, previously un contemplated and unique capabilities and control hardware and software innovations for smart PV inverters and DER management systems. Applications must have an assessment of economic viability of the proposed system, activity or component in the respective part of the project.

Applicant's solar photovoltaic projects may require working with critical infrastructure owners and operators and state, local, tribal and territories entities to take proactive steps to manage risk and strengthen the security and resilience of the Nation's critical infrastructure, considering all hazards that could have a debilitating impact on national security, economic stability, public health and safety, or any combination thereof. These solar photovoltaic projects shall seek to reduce vulnerabilities, minimize consequences, identify and disrupt threats, and hasten response and recovery efforts related to critical infrastructure to ensure public health and safety while improving national security and economic security.

Topic 1.2 Solar Situational Awareness and Analysis

This Topic will support applications to research and field validate unique and innovative solutions that will improve the resiliency of the Energy Sector's capability to withstand all hazards; focusing on cyber and physical vectors. Specifically, the solutions should enhance operator capability to observe solar systems deployed throughout the bulk power systems or associated transmission to distribution substations or Behind-the-Meter (BTM) solar including but not limited to battery storage, systems controls, and demand response. Primary focus areas include solar photovoltaic integrated sensor technologies, secure and robust electricity supply delivery and communication tools, advanced data analytics including Artificial Intelligence and Machine to Machine capabilities, and voltage testing. Projects with secondary focus areas may also be considered which include the integration of observed data into planning, operations and business unit systems that would operate at both steady and degraded states. Applications must have an assessment of economic viability of the proposed system, activity or component in the respective part of the project.

Applicant's solar situational awareness and analysis projects may require working with critical infrastructure owners and operators and state, local, tribal and territories entities to take proactive steps to manage risk and strengthen the security and resilience of the Nation's critical infrastructure, considering all hazards that could have a debilitating impact on national security, economic stability, public health and safety, or any combination thereof. These projects shall seek to contribute to one or more risk components: reduce vulnerabilities, minimize consequences, identify and disrupt threats, and/or hasten response and recovery efforts related to critical infrastructure to ensure public health and safety while improving national security and economic security.

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Topic 1.3 Solar Technology Transfer

This topic will explore unique and innovative approaches to accelerate the transfer of solar system solutions that will improve the resiliency of the Energy Sector's capability to withstand all hazards; focusing on cyber and physical vectors. Potential areas of interest include, but are not limited to, projects or models that deploy alternative capital, for technology R&D transfer, incentivize industry-researcher collaboration, leverage existing facilities or capabilities, data and build approaches and methods that serve to drive down the hardware cost and ensure solutions, validation, certifications, resilience and electricity supply to withstand wide spread and coordinated threats compatible with Topic 1.1 and Topic 1.2

Applicant's solar technology transfer projects may require working with critical infrastructure owners and operators and state, local, tribal and territories entities to take proactive steps to manage risk and strengthen the security and resilience of the Nation's critical infrastructure, considering all hazards that could have a debilitating impact on national security, economic stability, public health and safety, or any combination thereof. These projects shall seek to contribute to one or more risk components: reduce vulnerabilities, minimize consequences, identify and disrupt threats, and/or hasten response and recovery efforts related to critical infrastructure to ensure public health and safety while improving national security and economic security.

EERE envisions awarding multiple financial assistance awards in the form of cooperative agreements. The estimated period of performance for each award will be approximately 3 years.

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- Obtain a Dun and Bradstreet Data Universal Numbering System (DUNS) number (including the plus 4 extension, if applicable) at <http://fedgov.dnb.com/webform>
- Register with the System for Award Management (SAM) at <https://www.sam.gov>. Designating an Electronic Business Point of Contact (EBiz POC) and obtaining a special password called an MPIN are important steps in SAM registration. Please update your SAM registration annually.
- Register in FedConnect at <https://www.fedconnect.net/>. To create an organization account, your organization's SAM MPIN is required. For more information about the SAM MPIN or other registration requirements, review the FedConnect Ready, Set, Go! Guide at https://www.fedconnect.net/FedConnect/Marketing/Documents/FedConnect_Ready_Set_Go.pdf
- Register in Grants.gov to receive automatic updates when Amendments to a FOA are posted. However, please note that applications will not be accepted through Grants.gov. <http://www.grants.gov/>. All applications must be submitted through EERE Exchange.

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From: Gay, Charlie
To: Anderson, Christopher; Bing, Christine; Bob, Brion; Fricker, Kyle; Goldstone, Michael; Golnas, Anastasios; Graves, Andrew; Jones-Albertus, Becca; Kane, Victor; Mapes, Marie; Mikrut, Jeremy; Miller, Jeremiah; Nilson, Garrett; Olson, Dana; Phillipsen, Christian; Rueckert, Thomas; Shultz, Avi; Stricker, Daniel; Tinker, Lenny; Ulrich, Elaine; Vauss, Ebony; Vijaykumar, Rajgopal; Walter, David; Yuan, Guohui; Bobo, Diana; Pfrangle, Clay; Bauer, Matthew (CONTR); Baylor, Meisha (CONTR); Boyd, Michele A. (CONTR); Bristol, Jennifer (CONTR); Celik, Kemal (CONTR); Clark, Patricia (CONTR); Collins, Shamara (FELLOW); Dawson, Andrew (CONTR); Ebers, Anna (FELLOW); Ferguson, Jamal (CONTR); Huang, Susan (CONTR); Iliy, Rachelle (FELLOW); Irwin, Levi (CONTR); Jaishankar, Shubha (CONTR); Jones, Tiffany (CONTR); Kozlinsky, Inna (CONTR); Krishnaswami, Hariharan (FELLOW); Lausten, Mark (CONTR); Machin, Sarah (CONTR); Marchetti, Emily (CONTR); Mees, Jacob (CONTR); Murley, Susanna (CONTR); Pecora, Emanuele F. (FELLOW); Prescod, Andru (CONTR); Qusabatv, Ammar (CONTR); Rensch-McCauley, Dave (FELLOW); Sheoran, Manav (CONTR); Truong, Nancy (CONTR); Washelesky, Dawn (CONTR); Zibulsky, Leah (CONTR)
Subject: Follow-up
Date: Friday, August 31, 2018 1:57:52 PM
Attachments: SETO FOA Topic Area 1 Notice with NOI 20180831 Final.docx

Hi Team:

Further to this morning's get-together, here's an update:

Notice of Intent (NOI) and topic revision

- History: In April 2018, U.S. Secretary of Energy Rick Perry issued a press release announcing the Solar Energy Technologies Office (SETO) Fiscal Year 2018 funding opportunity announcement (FOA). The FOA identified four topics including one (Topic Area 1) to advance research on technologies enabling integration of solar energy onto the nation's electricity grid. The office had budgeted \$46 million anticipating about 14 projects. The FOA stated that the expected timeframe for selection notifications was September 2018.
- Upon review, the Office of Energy Efficiency and Renewable Energy (EERE) determined it appropriate to revise Topic Area 1 and issue a new FOA. A NOI has been posted on EERE Exchange. <https://eere-exchange.energy.gov/default.aspx#Foald2bbe24fe-f075-4d1b-8ab7-0df723807696>
- Notices have been sent via email to Topic Area 1 applicants. (see attachment)

Communication

- As with all funding opportunities, one should not provide any privileged or confidential information that might give an interested party / potential awardee advantaged information. (note: Washington, D.C. law does not require two-party consent for recording phone calls.)
- Public Affairs is the point of contact for any inquiries.
 - John Horst
 - Email: john.horst@ee.doe.gov
 - Phone: 1-720-356-1580
- FOA Questions
 - SETO.FOA@ee.doe.gov
- Exchange Help
 - EERE-ExchangeSupport@Hq.Doe.Gov

Charlie
202-287-1987

From: Gay, Charlie

Sent: Friday, August 31, 2018 7:19 AM

To: Anderson, Christopher <Christopher.Anderson@EE.DOE.Gov>; Bing, Christine <Christine.Bing@ee.doe.gov>; Bob, Brion <Brion.Bob@EE.DOE.Gov>; Fricker, Kyle <Kyle.Fricker@EE.DOE.Gov>; Goldstone, Michael <Michael.Goldstone@ee.doe.gov>; 'Golnas, Anastasios (CONTR) (Tassos.Golnas@ee.doe.gov)' <Tassos.Golnas@ee.doe.gov>; Graves, Andrew <Andrew.Graves@EE.Doe.Gov>; 'Becca Jones-Albertus (Becca.Jones-Albertus@ee.doe.gov)' <Becca.Jones-Albertus@ee.doe.gov>; Kane, Victor <Victor.Kane@EE.Doe.Gov>; Mapes, Marie <Marie.Mapes@ee.doe.gov>; Mikrut, Jeremy <Jeremy.Mikrut@ee.doe.gov>; Miller, Jeremiah <Jeremiah.Miller@ee.doe.gov>; 'Nilsen, Garrett (CONTR) (Garrett.Nilsen@ee.doe.gov)' <Garrett.Nilsen@ee.doe.gov>; Olson, Dana <Dana.Olson@Hq.Doe.Gov>; Philipsen, Christian <Christian.Philipsen@ee.Doe.Gov>; Rueckert, Thomas <Thomas.Rueckert@ee.doe.gov>; 'Avi Shultz (Abraham.Shultz@EE.Doe.Gov)' <Abraham.Shultz@EE.Doe.Gov>; Stricker, Daniel <Daniel.Stricker@EE.Doe.Gov>; Tinker, Lenny <Lenny.Tinker@ee.Doe.Gov>; 'Ulrich, Elaine' <Elaine.Ulrich@ee.Doe.Gov>; 'Ebony Vauss (Ebony.Vauss@ee.doe.gov)' <Ebony.Vauss@ee.doe.gov>; Vijaykumar, Rajgopal <Rajgopal.Vijaykumar@EE.Doe.Gov>; Walter, David <David.Walter@ee.doe.gov>; Yuan, Guohui <Guohui.Yuan@EE.Doe.Gov>; Bobo, Diana <Diana.Bobo@ee.doe.gov>; Pfrangle, Clay <Clay.Pfrangle@EE.Doe.Gov>; Bauer, Matthew (CONTR) <Matthew.Bauer@EE.DOE.Gov>; Baylor, Meisha (CONTR) <Meisha.Baylor@EE.DOE.Gov>; Boyd, Michele A. (CONTR) <Michele.Boyd@ee.doe.gov>; Bristol, Jennifer (CONTR) <Jennifer.Bristol@EE.doe.gov>; Celik, Kemal (CONTR) <Kemal.Celik@EE.DOE.Gov>; Clark, Patricia (CONTR) <Patricia.Clark@EE.DOE.Gov>; Collins, Shamara (FELLOW) <shamara.collins@ee.doe.gov>; Dawson, Andrew (CONTR) <Andrew.Dawson@ee.doe.gov>; Ebers, Anna (FELLOW) <Anna.Ebers@ee.doe.gov>; Ferguson, Jamal (CONTR) <Jamal.Ferguson@ee.doe.gov>; Huang, Susan (CONTR) <Susan.Huang@EE.Doe.Gov>; Ihly, Rachele (FELLOW) <Rachele.Ihly@ee.doe.gov>; Irwin, Levi (CONTR) <Levi.Irwin@EE.Doe.Gov>; Jaishankar, Shubha (CONTR) <Shubha.Jaishankar@EE.Doe.Gov>; Jones, Tiffany (CONTR) <Tiffany.Jones@ee.doe.gov>; Kozinsky, Inna (CONTR) <Inna.Kozinsky@EE.Doe.Gov>; Krishnaswami, Hariharan (FELLOW) <Hariharan.Krishnaswami@EE.doe.gov>; Lausten, Mark (CONTR) <Mark.Lausten@ee.doe.gov>; Machin, Sarah (CONTR) <Sarah.Machin@EE.doe.gov>; Marchetti, Emily (CONTR) <Emily.Marchetti@EE.Doe.Gov>; Mees, Jacob (CONTR) <Jacob.Mees@EE.Doe.Gov>; Murley, Susanna (CONTR) <Susanna.Murley@EE.DOE.Gov>; Pecora, Emanuele F. (FELLOW) <Emanuele.Pecora@EE.DOE.Gov>; Prescod, Andru (CONTR) <Andru.Prescod@EE.Doe.Gov>; Qusaibaty, Ammar (CONTR) <Ammar.Qusaibaty@ee.Doe.Gov>; Rench-McCauley, Dave (FELLOW) <Dave.Rench-McCauley@ee.doe.gov>; Sheoran, Manav (CONTR) <Manav.Sheoran@EE.DOE.Gov>; Truong, Nancy (CONTR) <Nancy.Truong@EE.Doe.Gov>; Washelesky, Dawn (CONTR) <Dawn.Washelesky@EE.DOE.Gov>; Zibulsky, Leah (CONTR) <leah.zibulsky@ee.doe.gov>

Subject: FW: 24-hour sensitivity check for: SETO's Advanced Solar Systems Integration Technologies Notice of Intent

Hi Team:

Below and attached is a copy of the most recent action regarding the FOA – please do not forward. We will discuss at our 10:30 a.m. meeting.

Charlie

From: Horst, John

Sent: Thursday, August 30, 2018 7:14 PM

To: Fitzsimmons, Alexander <Alexander.Fitzsimmons@ee.doe.gov>; Jayne, Kevin A. <Kevin.Jayne@ee.doe.gov>; Jones, Dylan <Dylan.Jones@EE.Doe.Gov>; Gruse, Jessica (CONTR) <Jessica.Gruse@EE.DOE.Gov>; Wahlert, Kayt <Kayt.Wahlert@ee.Doe.Gov>; Mills, Allison <Allison.Mills@hq.doe.gov>; Oliver, Martha <Martha.Oliver@hq.doe.gov>; Brace, Conner <Conner.Brace@hq.doe.gov>; EERE Legislative Affairs <EERELegAffairs@EE.Doe.Gov>; Rivers, Jennifer <Jennifer.Rivers@ee.doe.gov>; EEREStakeholderEngagement <EEREStakeholderEngagement@EE.Doe.Gov>

Cc: Unruh, Timothy <Timothy.Unruh@EE.Doe.Gov>; Hamos, Ian <Ian.Hamos@EE.doe.gov>; Gay, Charlie <Charlie.Gay@EE.DOE.Gov>; Murley, Susanna (CONTR) <Susanna.Murley@EE.DOE.Gov>; Vauss, Ebony <Ebony.Vauss@ee.doe.gov>; Bristol, Jennifer (CONTR) <Jennifer.Bristol@EE.doe.gov>; Brodie, Pamela <Pamela.Brodie@ee.Doe.Gov>; Jacob, Bindu <Bindu.Jacob@ee.doe.gov>; DeCesaro, Jennifer <Jennifer.Decesaro@ee.doe.gov>; Barendsen, Eric <Eric.Barendsen@ee.doe.gov>; Sher, Jono <jono.sher@ee.doe.gov>; Stowers, Christina (CONTR) <Christina.Stowers@EE.Doe.Gov>; Cone, Kristin (CONTR) <Kristin.Cone@EE.DOE.Gov>; Kane, Victor <Victor.Kane@EE.Doe.Gov>; Fricker, Kyle <Kyle.Fricker@EE.DOE.Gov>; Goldstone, Michael <Michael.Goldstone@ee.doe.gov>

Subject: 24-hour sensitivity check for: SETO's Advanced Solar Systems Integration Technologies Notice of Intent

Hello,

EERE's Solar Energy Technologies Office (SETO) would like to issue a Notice of Intent (NOI) for its "Advanced Solar Systems Integration Technologies." The focus supports early-stage research and development to improve the performance and flexibility of solar technologies that contribute to a reliable and resilient U.S. electric grid. SETO invests in innovative research efforts that securely integrate more solar energy into the grid, enhance the use, storage and dispatch of solar energy, and lower solar electricity costs.

Areas of Interest:

Solar Grid Integration – This topic will support applications to research and field validate unique and innovative solutions that will improve the resiliency of the Energy Sector's capability to withstand all hazards; focusing on cyber and physical vectors. Specifically, the solutions should identify the strategic location of solar photovoltaic (PV) systems that will ensure the Energy Sector provides continuity of service in the face of wide spread and coordinated threats.

Solar Situational Awareness and Analysis – This topic will support applications to research and field validate unique and innovative solutions that will improve the resiliency of the Energy Sector's capability to withstand all hazards; focusing on cyber and physical vectors. Specifically, the solutions should enhance operator capability to observe solar systems deployed throughout the bulk power

systems or associated transmission to distribution substations or Behind-the-Meter (BTM) solar including but not limited to battery storage, systems controls, and demand response. Primary focus areas include solar photovoltaic integrated sensor technologies, secure and robust electricity supply delivery and communication tools, advanced data analytics including Artificial Intelligence and Machine to Machine capabilities, and voltage testing.

Solar Technology Transfer – This topic will explore unique and innovative approaches to accelerate the transfer of solar system solutions that will improve the resiliency of the Energy Sector’s capability to withstand all hazards; focusing on cyber and physical vectors. Potential areas of interest include, but are not limited to, projects or models that deploy alternative capital, for technology R&D transfer, incentivize industry-researcher collaboration, leverage existing facilities or capabilities, data and build approaches and methods that serve to drive down the hardware cost and ensure solutions, validation, certifications, resilience and electricity supply to withstand wide spread and coordinated threats compatible with Topic 1.1 and Topic 1.2

EEERE envisions awarding multiple financial assistance awards in the form of cooperative agreements. The estimated period of performance for each award will be approximately 3 years. For more, see the attached NOI. (b) (5)

(b) (5) Please reply all with any questions, comments, or concerns.

Thanks,
John

John Horst, APR
U.S. Department of Energy
Energy Efficiency and Renewable Energy
Communications | Media Relations
Office: 720-356-1580
Mobile: (b) (6)

SETO FOA TOPIC AREA 1 NOTICE

On behalf of the Department of Energy (DOE), Office of Energy Efficiency and Renewable Energy (EERE), we would like to thank you for submitting an application in response to the Solar Energy Technology Office (SETO) FY18 Funding Opportunity Announcement (FOA) DE-FOA-0001840. We are writing to inform you of a change to Topic Area 1 of the FOA, Advanced Solar Systems Integration Technologies.

DOE is committed to improving the affordability of energy technologies and strengthening the Energy Sector's capability to withstand cyber and physical threats, including natural disasters. Improving the strategic location and situational awareness of solar systems can help ensure continuity of service in the face of widespread and coordinated threats. Developing innovative approaches to accelerate the transfer of solar system solutions that will improve Energy Sector resilience is also a priority.

In order to better align the FOA objectives to the mission objectives of DOE, EERE plans to revise Topic Area 1 and issue a new FOA. **Because a new FOA is planned, if you would like to apply to the revised Topic Area 1, an application must be submitted under the new FOA in EERE Exchange by the deadline.** Please carefully review the revised emphasis and program objectives when the new FOA is issued, and revise your application accordingly.

On behalf of EERE, we would like to express our sincere appreciation for the significant time and effort you and your team invested in preparing this application, and for your interest and participation in the EERE Solar Energy Technologies Office activities. We hope that you will continue to participate in future activities and programs with EERE.

The Notice of Intent to Issue Funding Opportunity Announcement No. DE-FOA-0001987 is provided below for your reference.

Notice of Intent No. DE-FOA-0001986**Notice of Intent to Issue
Funding Opportunity Announcement No. DE-FOA-0001987**

The Office of Energy Efficiency and Renewable Energy (EERE) intends to issue, on behalf of the Solar Energy Technology Office, a Funding Opportunity Announcement (FOA) entitled "Advanced Solar Systems Integration Technologies".

This FOA supports the mission of the Solar Energy Technologies Office (SETO) which is to support early-stage research and development to improve the performance and flexibility of solar technologies that contribute to a reliable and resilient U.S. electric grid. The office invests in innovative research efforts that securely integrate more solar energy into the grid, enhance the use, storage and dispatch of solar energy, and lower solar electricity costs.

DOE is committed to improving the affordability of energy technologies and strengthening the Energy Sector's capability to withstand cyber and physical threats, including natural disasters. Improving the strategic location and situational awareness of solar systems can help ensure continuity of service in the face of widespread and coordinated threats. Developing innovative approaches to accelerate the transfer of solar system solutions that will improve Energy Sector resilience is also a priority.

It is anticipated that the FOA may include the following Areas of Interest:

Topic 1.1 Solar Grid Integration

This topic will support applications to research and field validate unique and innovative solutions that will improve the resiliency of the Energy Sector's capability to withstand all hazards; focusing on cyber and physical vectors. Specifically, the solutions should identify the strategic location of solar photovoltaic (PV) systems that will ensure the Energy Sector provides continuity of service in the face of wide spread and coordinated threats. These solutions can be deployed throughout the bulk power systems or associated transmission to distribution substations. It is expected that the same design concepts will be applicable for energy storage and other distributed energy resources (DERs). The approaches will test the systems' ability to operate and adapt at both steady and degraded states. Applications must consider diverse DER options (e.g. photovoltaics, energy storage, and flexible load)

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available as well as power systems engineering alternatives, and demonstrate the benefits of the proposed solutions. It should also be shown in these solutions how a fleet of multiple photovoltaics systems from multiple locations will be able to respond to fast changing conditions under normal operations and provide power to critical loads during grid outages – with consideration of other DER options and distribution system constraints. Example projects may include, but are not limited to, new design and use-case concepts, essential reliability services, adaptive capabilities, voltage support, previously un contemplated and unique capabilities and control hardware and software innovations for smart PV inverters and DER management systems. Applications must have an assessment of economic viability of the proposed system, activity or component in the respective part of the project.

Applicant's solar photovoltaic projects may require working with critical infrastructure owners and operators and state, local, tribal and territories entities to take proactive steps to manage risk and strengthen the security and resilience of the Nation's critical infrastructure, considering all hazards that could have a debilitating impact on national security, economic stability, public health and safety, or any combination thereof. These solar photovoltaic projects shall seek to reduce vulnerabilities, minimize consequences, identify and disrupt threats, and hasten response and recovery efforts related to critical infrastructure to ensure public health and safety while improving national security and economic security.

Topic 1.2 Solar Situational Awareness and Analysis

This Topic will support applications to research and field validate unique and innovative solutions that will improve the resiliency of the Energy Sector's capability to withstand all hazards; focusing on cyber and physical vectors. Specifically, the solutions should enhance operator capability to observe solar systems deployed throughout the bulk power systems or associated transmission to distribution substations or Behind-the-Meter (BTM) solar including but not limited to battery storage, systems controls, and demand response. Primary focus areas include solar photovoltaic integrated sensor technologies, secure and robust electricity supply delivery and communication tools, advanced data analytics including Artificial Intelligence and Machine to Machine capabilities, and voltage testing. Projects with secondary focus areas may also be considered which include the integration of observed data into planning, operations and business unit systems that would operate at both steady and degraded states. Applications must have an assessment of economic viability of the proposed system, activity or component in the respective part of the project.

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Topic 1.3 Solar Technology Transfer

This topic will explore unique and innovative approaches to accelerate the transfer of solar system solutions that will improve the resiliency of the Energy Sector's capability to withstand all hazards; focusing on cyber and physical vectors. Potential areas of interest include, but are not limited to, projects or models that deploy alternative capital, for technology R&D transfer, incentivize industry-researcher collaboration, leverage existing facilities or capabilities, data and build approaches and methods that serve to drive down the hardware cost and ensure solutions, validation, certifications, resilience and electricity supply to withstand wide spread and coordinated threats compatible with Topic 1.1 and Topic 1.2

Applicant's solar technology transfer projects may require working with critical infrastructure owners and operators and state, local, tribal and territories entities to take proactive steps to manage risk and strengthen the security and resilience of the Nation's critical infrastructure, considering all hazards that could have a debilitating impact on national security, economic stability, public health and safety, or any combination thereof. These projects shall seek to contribute to one or more risk components: reduce vulnerabilities, minimize consequences, identify and disrupt threats, and/or hasten response and recovery efforts related to critical infrastructure to ensure public health and safety while improving national security and economic security.

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EERE plans to issue the FOA on or about September 15, 2018 via the EERE Exchange website <https://eere-exchange.energy.gov/>. If Applicants wish to receive official notifications and information from EERE regarding this FOA, they should register in EERE Exchange. When the FOA is released, applications will be accepted only through EERE Exchange.

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- Register with the System for Award Management (SAM) at <https://www.sam.gov>. Designating an Electronic Business Point of Contact (EBiz POC) and obtaining a special password called an MPIN are important steps in SAM registration. Please update your SAM registration annually.
- Register in FedConnect at <https://www.fedconnect.net/>. To create an organization account, your organization's SAM MPIN is required. For more information about the SAM MPIN or other registration requirements, review the FedConnect Ready, Set, Go! Guide at [https://www.fedconnect.net/FedConnect/Marketing/Documents/FedConnect Ready Set Go.pdf](https://www.fedconnect.net/FedConnect/Marketing/Documents/FedConnect%20Ready%20Set%20Go.pdf)
- Register in Grants.gov to receive automatic updates when Amendments to a FOA are posted. However, please note that applications will not be accepted through Grants.gov. <http://www.grants.gov/>. All applications must be submitted through EERE Exchange.

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From: [Bobo, Diana](#)
To: [Goldstone, Michael](#); [Fricker, Kyle](#)
Cc: [Pfrangle, Clay](#)
Subject: RE: SETO FOA - EERE Exchange description update
Date: Tuesday, September 11, 2018 10:41:10 AM

Hi Michael,

(b) (5)

Thanks,
Diana

From: Goldstone, Michael
Sent: Tuesday, September 11, 2018 10:39 AM
To: Bobo, Diana <Diana.Bobo@ee.doe.gov>; Fricker, Kyle <Kyle.Fricker@EE.DOE.Gov>
Cc: Pfrangle, Clay <Clay.Pfrangle@EE.Doe.Gov>
Subject: RE: SETO FOA - EERE Exchange description update

I suggest the following language. New language in blue, strike out = suggested deletion.

(b) (5)

From: Bobo, Diana
Sent: Tuesday, September 11, 2018 12:35 PM
To: Fricker, Kyle <Kyle.Fricker@EE.DOE.Gov>; Goldstone, Michael <Michael.Goldstone@ee.doe.gov>
Cc: Pfrangle, Clay <Clay.Pfrangle@EE.Doe.Gov>
Subject: RE: SETO FOA - EERE Exchange description update

Hi Kyle,

I think the description is fine, however, do you know the status of the FRD or FOA document?

Thanks,
Diana

From: Fricker, Kyle
Sent: Monday, September 10, 2018 10:52 AM
To: Bobo, Diana <Diana.Bobo@ee.doe.gov>; Goldstone, Michael <Michael.Goldstone@ee.doe.gov>
Cc: Pfrangle, Clay <Clay.Pfrangle@EE.Doe.Gov>
Subject: SETO FOA - EERE Exchange description update

Hi Diana and Michael,

Last week the FOA team talked about adding language to Exchange to make it clear for the applicants what is happening with Topic 1. Below in the grey box is the information currently displayed about the FOA on EERE Exchange. I have added language from the notice sent out to all Topic 1 applicants in red. Please review it and confirm that it is OK for us to update Exchange accordingly.

Thank you,
Kyle

(b) (5)

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Kyle J Fricker, PhD
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