

QUESTIONS AND ANSWERS

TABLE OF QUESTIONS

I. Frequently Asked Questions:	1
Q1. If I have questions about this funding announcement, who do I contact?	1
Q2. How will I receive a response to questions submitted to ARPA_E_CO@hq.doe.gov about this FOA? ...	1
Q3. Will ARPA-E post a response to every question submitted to ARPA-E-CO@hq.doe.gov?	1
Q4. If I have questions about ARPA-E eXCHANGE, who do I contact?	1
Q5. Can I speak or meet with the ARPA-E program director or other ARPA-E personnel about this funding opportunity announcement?.....	1
Q6. Can a person be PI on one proposal and a Co-PI on a second separate proposal?	1
Q7. May applicants submit more than one Concept Paper to this funding opportunity?	1
Q8. I have developed a technology that may be a good fit for this funding opportunity. Will ARPA-E please review the attached project information and let me know if I should make a submission to this funding opportunity.	2
II. Questions for week ending: March 29, 2013	2
Q9. Is it allowable for a primary U.S. awarded contractor to pay a foreign university a consulting fee in order to support a PH.D. student doing work on the project at the foreign institution?	2
Q10. Page 7, Figure 2 shows cost segments. In the case of titanium, a significant materials cost is presented. What are the items that make-up the materials cost? You state a significant fraction of the materials cost is the cost of mg. Figure 2 shows the cost of mg to be slightly above \$3/kg yet materials cost shown in figure 2 for titanium is approximately \$7.10/kg which is over twice the mg cost.....	2
III. Questions for week ending: April 5, 2013	3
Q11. I would like to get a copy of the DOE report which is Reference Number 22 in the FOA (U.S. DOE Report No. DE-AC5-00OR22725, 2010). I could not locate a copy of this report on the web.....	3
Q12. In the metals FOA (DE-FOA-0000882 Mod 001), the scope of recycling technologies seems limited to sorting techniques. However, sorting exhibits fundamental limitations. ARPA-E states that "innovative concepts focused on energy intensive and/or high cost stages of both the primary and secondary production processes will also be considered." However it seems to rule out "recycling/secondary production technologies that only offer energy efficiency advantages without also incorporating advanced sorting technologies." (p. 18). Will ARPA-E accept proposals using scrap streams from existing sorting technologies, but with other transformational energy reduction and/or product purity improvements?	3
IV. Questions received by 5 PM: April 15, 2013	3
Q13. Am I allowed to attach references and nomenclature to the two page concept paper or a list of references?	3
Q14. One of my partners is going to be *** University. I am at a *** University. Would it help our chances if *** were the Lead institution or will that not matter? If *** is the lead does that mean they have the PI or can I still be the PI?	3
V. Questions for week ending: May 31, 2013	4
Q15. I expected to find in the R&D strategy (20 pages max) described on pages 43 and 44 in the modified 2 FOA a category for presenting our experimental plan. But no such category is explicitly called out. My best guess is to put the experimental plan description, a major part i think of the R&D strategy, under feasibility.	

QUESTIONS AND ANSWERS

TABLE OF QUESTIONS

Is that correct? If not, please tell me where you intend it to be inserted and then clarify what you mean by feasibility.	4
Q16.a. Are joint ventures (JV) allowed (assuming only one member of the jv is the prime)?	4
Q16.B. If so, does the billing to ARPA-E from the JV members flow through the prime (appear on the prime's books) or can the billing bypass the prime and come directly from each JV member?	4
Q16.C. Alternatively, can the JV prime do the billings for the other JV members but not have their funds appear on its books and therefore not have to charge ARPA-e its customary Q&A on the other members' billings?	4
Q16.D. Are there any other ways of handling the billing so that the prime does not have to charge Q&A on the other partners' billings?	4

I. FREQUENTLY ASKED QUESTIONS:

Q1. if I have questions about this funding announcement, who do I contact?

ANSWER: Please see the FOA guidance on submitting FOA content questions and response publication. Applicants may submit questions regarding this ARPA-E's Funding Opportunity Announcement (FOA) to ARPA-E-CO@hq.doe.gov. All emails must include the FOA name and number in the subject line. The cover page and Executive Summary of the Funding Opportunity Announcement state the deadlines for submitting questions to ARPA-E-CO@hq.doe.gov.

Q2. How will I receive a response to questions submitted to [ARPA E CO@hq.doe.gov](mailto:ARPA_E_CO@hq.doe.gov) about this FOA?

ANSWER: Responses are posted in the "Frequently Asked Questions" section of ARPA-E's website. There are general FAQs and a FAQ page for each FOA.

ARPA-E will post responses on a weekly basis to any questions that are received.

ARPA-E will cease to accept questions approximately 5 business days in advance of each submission deadline. Responses to questions received before the cutoff will be posted approximately one business day in advance of the submission deadline. ARPA-E may re-phrase questions or consolidate similar questions for administrative purposes.

Q3. Will ARPA-E post a response to every question submitted to ARPA-E-CO@hq.doe.gov?

ANSWER: No. ARPA-E will only post responses to questions that have not already been addressed by a published FAQ. Also, ARPA-E may consolidate similar questions for administrative purposes.

Q4. If I have questions about ARPA-E eXCHANGE, who do I contact?

ANSWER: Applicants may submit questions regarding ARPA-E's online application portal, ARPA-E eXCHANGE, to ExchangeHelp@hq.doe.gov. All emails must include the name and number of the Funding Opportunity Announcement in the subject line.

Q5. Can I speak or meet with the ARPA-E program director or other ARPA-E personnel about this funding opportunity announcement?

ANSWER: No. Upon the issuance of this Funding Opportunity Announcement (FOA), ARPA-E Programs and other ARPA-E personnel are prohibited from communicating (in writing or otherwise) with Applicants, or potential Applicants, regarding the FOA. This "quiet period" remains in effect until ARPA-E's public announcement of its project selections. During the "quiet period," Applicants may submit questions regarding the FOA to ARPA-E-CO@hq.doe.gov with the FOA name and number in the subject line. Applicants may also submit questions regarding ARPA-E's online application portal, ARPA-E eXCHANGE, to ExchangeHelp@hq.doe.gov with the FOA name and number in the subject line. ARPA-E will not accept or respond to communications received by other means (e.g., fax, telephone, mail, hand delivery). Emails sent to other email addresses will be disregarded.

Q6. Can a person be PI on one proposal and a Co-PI on a second separate proposal?

ANSWER: Yes, but the applications must be scientifically distinct from one another.

Q7. May applicants submit more than one Concept Paper to this funding opportunity?

ANSWER: Yes, but each Concept Paper submission must be scientifically distinct.

Q8. I have developed a technology that may be a good fit for this funding opportunity. Will ARPA-E please review the attached project information and let me know if I should make a submission to this funding opportunity.

ANSWER: No. Applicants must review the Technical Requirements of this funding opportunity to determine if their technology warrants a submission to ARPA-E.

II. Questions for week ending: MARCH 29, 2013

Q9. Is it allowable for a primary U.S. awarded contractor to pay a foreign university a consulting fee in order to support a PH.D. student doing work on the project at the foreign institution?

ANSWER: Based on the limited information in your question, it appears the answer would be “no.” ARPA-E awards are generally subject to: 1) the requirement that all work under the award is conducted in the United States - subject to a partial waiver application process (rarely submitted, and more rarely granted); 2) United States manufacturing requirements for subject inventions resulting from research conducted under the award; and 3) export control and ITAR regulations, as applicable, for the research conducted under the award; and 4) other eligibility requirements that vary from FOA to FOA. Thus, Prime Recipients must expend 100% of the Total Project Cost in the United States. Applicants seeking a waiver of this requirement are required to include an explicit request in the Business Assurances Form, which is part of the Full Application submitted to ARPA-E. Such waivers are granted where there is a demonstrated need, as determined by ARPA-E. A consulting fee to a foreign university appears unlikely to qualify.

Q10. Page 7, Figure 2 shows cost segments. In the case of titanium, a significant materials cost is presented. What are the items that make-up the materials cost? You state a significant fraction of the materials cost is the cost of mg. Figure 2 shows the cost of mg to be slightly above \$3/kg yet materials cost shown in figure 2 for titanium is approximately \$7.10/kg which is over twice the mg cost.

ANSWER: Titanium costs were estimated. The dominant material components are titanium tetrachloride and magnesium where their combined costs are close to the total shown in Figure 2.

III. Questions for week ending: APRIL 5, 2013

Q11. I would like to get a copy of the DOE report which is Reference Number 22 in the FOA (U.S. DOE Report No. DE-AC5-00OR22725, 2010). I could not locate a copy of this report on the web.

ANSWER: This DOE report is the cited authority - in footnote 22 on Pages 9 (and page 23) - for the following statement on the production of Magnesium: "In comparison, domestic magnesium production is an electrolytic process that requires approximately 43.6 kWh/kg and has emissions of 6.9 kgCO₂/kg." This DoE Report is not needed for submission of a concept paper. However, to obtain a copy of the Report, a records request for this document may be submitted electronically to the following web page: <http://energy.gov/doe-headquarters-foia-request-form>.

Q12. In the metals FOA (DE-FOA-0000882 Mod 001), the scope of recycling technologies seems limited to sorting techniques. However, sorting exhibits fundamental limitations. ARPA-E states that "innovative concepts focused on energy intensive and/or high cost stages of both the primary and secondary production processes will also be considered." However it seems to rule out "recycling/secondary production technologies that only offer energy efficiency advantages without also incorporating advanced sorting technologies." (p. 18). Will ARPA-E accept proposals using scrap streams from existing sorting technologies, but with other transformational energy reduction and/or product purity improvements?

ANSWER: ARPA-E will consider any concept paper that advances the program objectives of the FOA described in Section I.C (Program Objectives) and meets the technical performance targets in Section I.E (Technical Performance Targets) of the FOA. Please also see Section III.C.2 (Responsiveness Criteria) of the FOA.

IV. Questions received by 5 PM: APRIL 15, 2013

Q13. Am I allowed to attach references and nomenclature to the two page concept paper or a list of references?

ANSWER: Please see Section IV.C (Content and Form of Concept Papers) of the FOA.

Q14. One of my partners is going to be * University. I am at a *** University. Would it help our chances if *** were the Lead institution or will that not matter? If *** is the lead does that mean they have the PI or can I still be the PI?**

ANSWER: ARPA-E will not provide a pre-submission assessment of an Applicant's project team or proposed project. Applicants must determine individually how to structure their project team.

V. Questions for week ending: MAY 31, 2013

Q15. I expected to find in the R&D strategy (20 pages max) described on pages 43 and 44 in the modified 2 FOA a category for presenting our experimental plan. But no such category is explicitly called out. My best guess is to put the experimental plan description, a major part i think of the R&D strategy, under feasibility. Is that correct? If not, please tell me where you intend it to be inserted and then clarify what you mean by feasibility.

ANSWER: Please refer to Section IV.D.1 (“First Component: Technical Volume”) on pages 42-46 of the FOA for guidance regarding the structure of full applications. ARPA-E may not provide advice on how an applicant may structure its submission in part because ARPA-E is not aware of the contents/”plans” of applicant’s submissions.

Q16.A. Are joint ventures (JV) allowed (assuming only one member of the jv is the prime)?

Q16.B. If so, does the billing to ARPA-E from the JV members flow through the prime (appear on the prime’s books) or can the billing bypass the prime and come directly from each JV member?

Q16.C. Alternatively, can the JV prime do the billings for the other JV members but not have their funds appear on its books and therefore not have to charge ARPA-e its customary Q&A on the other members’ billings?

Q16.D. Are there any other ways of handling the billing so that the prime does not have to charge Q&A on the other partners’ billings?

ANSWER:

Q16.A. Please see Section III.A.4 (“Consortium Entities”) on page 31 of the FOA to determine if your joint venture may apply.

Q16.B. Billing must be submitted by the prime.

Q16.C. See above (answer to Q16.B).

Q16.D. See above (answer to Q16.B).