OMB Number: 4040-0004
Expiration Date: 01/31/2009

Application for Federal Assistance SF-424

Version 02

9. Type of Applicant 1: Select Applicant Type:

Q: For-Profit Organization (Other than Small Business)

Type of Applicant 2: Select Applicant Type:

Type of Applicant 3: Select Applicant Type:

* Other (specify):

*** 10. Name of Federal Agency:**

Golden Field Office

11. Catalog of Federal Domestic Assistance Number:

81.087

CFDA Title:

Renewable Energy Research and Development

*** 12. Funding Opportunity Number:**

DE-FOA-0000096

* Title:

Recovery Act - Demonstration of Integrated Biorefinery Operations

13. Competition Identification Number:

Title:

14. Areas Affected by Project (Cities, Counties, States, etc.):

*** 15. Descriptive Title of Applicant's Project:**

Integrated Pilot-Scale Biorefinery for Producing Ethanol from Hybrid Algae

Attach supporting documents as specified in agency instructions.

Add Attachments | Delete Attachments | View Attachments

OMB Number: 4040-0004
Expiration Date: 01/31/2009

Application for Federal Assistance SF-424 Version 02

16. Congressional Districts Of:

* a. Applicant FL-014 * b. Program/Project TX-014

Attach an additional list of Program/Project Congressional Districts if needed.

Add Attachment | Delete Attachment | View Attachment

17. Proposed Project:

* a. Start Date: 01/01/2010 * b. End Date: 12/31/2014

18. Estimated Funding ($):

* a. Federal	25,000,000.00
* b. Applicant	
* c. State	
* d. Local	
* e. Other	
* f. Program Income	
* g. TOTAL	

REDACTED
EXEMPTION 4

*** 19. Is Application Subject to Review By State Under Executive Order 12372 Process?**

☐ a. This application was made available to the State under the Executive Order 12372 Process for review on .

☐ b. Program is subject to E.O. 12372 but has not been selected by the State for review.

☒ c. Program is not covered by E.O. 12372.

*** 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes", provide explanation.)**

☐ Yes ☒ No Explanation

21. *By signing this application, I certify (1) to the statements contained in the list of certifications and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)**

☒ ** I AGREE

** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

Authorized Representative:

Prefix: Dr. * First Name: Craig

Middle Name:

* Last Name: Smith

Suffix:

* Title: Chief Operating Officer

* Telephone Number: 239-498-2000 Fax Number:

* Email: craig.smith@algenolbiofuels.com

* Signature of Authorized Representative: Completed by Grants.gov upon submission. * Date Signed: Completed by Grants.gov upon submission.

OMB Number: 4040-0004
Expiration Date: 01/31/2009

Application for Federal Assistance SF-424 Version 02

*** Applicant Federal Debt Delinquency Explanation**

The following field should contain an explanation if the Applicant organization is delinquent on any Federal Debt. Maximum number of characters that can be entered is 4,000. Try and avoid extra spaces and carriage returns to maximize the availability of space.

Other Attachment File(s)

*** Mandatory Other Attachment Filename:** Project.pdf

Add Mandatory Other Attachment | Delete Mandatory Other Attachment | View Mandatory Other Attachment

To add more "Other Attachment" attachments, please use the attachment buttons below.

Add Optional Other Attachment | Delete Optional Other Attachment | View Optional Other Attachment

OMB Number: 4040-0010
Expiration Date: 08/31/2011

Project/Performance Site Location(s)

Project/Performance Site Primary Location ☐ I am submitting an application as an individual, and not on behalf of a company, state, local or tribal government, academia, or other type of organization.

Organization Name: Algenol Biofuels Inc.

DUNS Number: 8003999040000

* Street1: 2301 N Brazosport BLVD

Street2:

* City: Freeport County: Brazoria

* State: TX: Texas

Province:

* Country: USA: UNITED STATES

* ZIP / Postal Code: 77541-2303 * Project/ Performance Site Congressional District: TX-014

Project/Performance Site Location 1 ☐ I am submitting an application as an individual, and not on behalf of a company, state, local or tribal government, academia, or other type of organization.

Organization Name:

DUNS Number:

* Street1:

Street2:

* City: County:

* State:

Province:

* Country: USA: UNITED STATES

* ZIP / Postal Code: * Project/ Performance Site Congressional District:

Applicant Name: Algenol Biofuels Inc. Award Number: DE-EE0002867/000

Budget Information - Non Construction Programs

OMB Approval No. 0348-0044

Section A - Budget Summary

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. DE-FOA-0000096	81.087			$25,000,000	Exemption 4	
2.						
3.						
4.						
5. Totals		$0	$0	$25,000,000		

Section B - Budget Categories

6. Object Class Categories	Grant Program, Function or Activity				Total (5)
	(1) DE-FOA-0000096	(2)	(3)	(4)	
a. Personnel	Exemption 4				
b. Fringe Benefits					
c. Travel					
d. Equipment					
e. Supplies					
f. Contractual					
g. Construction					
h. Other					
i. Total Direct Charges (sum of 6a-6h)					
j. Indirect Charges					
k. **Totals** (sum of 6i-6j)					
7. Program Income					$0

Authorized for Local Reproduction

Section C - Non-Federal Resources

(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) **Totals**
8. DE-FOA-0000096	Exemption 4			
9.				
10.				
11.				
12. **Total** (sum of lines 8 - 11)				

Section D - Forecasted Cash Needs

	Total Budget Period 1	1st Quarter	2nd Quarter	3rd Quarter	4th quarter
13. Federal	$9,669,386	$2,342,099	$2,645,510	$2,758,464	$1,923,312
14. Non-Federal	Exemption 4				
15. **Total** (sum of lines 13 and 14)					

Section E - Budget Estimates of Federal Funds Needed for Balance of the Project

(a) Grant Program	**Future Funding Periods (Years)** (b) First - Phase !!	(c) Second	(d) Third	(e) Fourth
16. DE-FOA-0000096	$15,330,614	$0	$0	$0
17.				
18.				
19.				
20. **Total** (sum of lines 16-19)	$15,330,614	$0	$0	$0

Section F - Other Budget Information

21. Direct Charges	22. Indirect Charges

23. Remarks Per page 15 in the FOA, the funding is based on Phases / Periods not years. Accordingly, the Forecasted Cash Needs in section D above agrees to the Phase I Total Project costs in the Budget justification file (in our case this is an 11 month period). In Section E, again we based it on Budget Periods as directed by the FOA. We have yearly information available and have included that as well. All tabs are labeled accordingly.

Applicant Name: Algenol Biofuels Inc. Award Number: _____ Phase I

Budget Information - Non Construction Programs

OMB Approval No. 0348-0044

Section A - Budget Summary

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. DE-FOA-0000096	81.087			$9,669,386	Exemption 4	
2.						
3.						
4.						
5. Totals		$0	$0	$9,669,386		

Section B - Budget Categories

6. Object Class Categories	Grant Program, Function or Activity				Total (5)
	(1) DE-FOA-0000096	(2)	(3)	(4)	
a. Personnel	Exemption 4				
b. Fringe Benefits					
c. Travel					
d. Equipment					
e. Supplies					
f. Contractual					
g. Construction					
h. Other					
i. Total Direct Charges (sum of 6a-6h)					
j. Indirect Charges					
k. **Totals** (sum of 6i-6j)					
7. Program Income					$0

Authorized for Local Reproduction

Section C - Non-Federal Resources

(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) **Totals**
8. DE-FOA-0000096	Exemption 4			
9.				
10.				
11.				
12. **Total** (sum of lines 8 - 11)				

Section D - Forecasted Cash Needs

	Total Budget Period 1	1st Quarter	2nd Quarter	3rd Quarter	4th quarter
13. Federal	$9,669,386	$2,342,099	$2,645,510	$2,758,464	$1,923,312
14. Non-Federal	Exemption 4				
15. **Total** (sum of lines 13 and 14)					

Section E - Budget Estimates of Federal Funds Needed for Balance of the Project

	Future Funding Periods (Years)			
(a) Grant Program	(b) First - Phase II	(c) Second	(d) Third	(e) Fourth
16. DE-FOA-0000096	$15,330,614	$0	$0	$0
17.				
18.				
19.				
20. **Total** (sum of lines 16-19)	$15,330,614	$0	$0	$0

Section F - Other Budget Information

21. Direct Charges	22. Indirect Charges

23. Remarks

Per page 15 in the FOA, the funding is based on Phases / Periods not years. Accordingly, the Forecasted Cash Needs in section D above agrees to the Phase I Total Project costs in the Budget justification file (in our case this is an 11 month period). In Section E, again we based it on Budget Periods as directed by the FOA. We have yearly information available as well but wanted to follow the guidelines of the FOA.

Applicant Name: Algenol Biofuels Inc. Award Number: _____ Phase II

Budget Information - Non Construction Programs

OMB Approval No. 0348-0044

Section A - Budget Summary

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. DE-FOA-0000096	81.087			$15,330,614	Exemption 4	
2.						
3.						
4.						
5. Totals		$0	$0	$15,330,614		

Section B - Budget Categories

6. Object Class Categories	Grant Program, Function or Activity				Total (5)
	(1) DE-FOA-0000096	(2)	(3)	(4)	
a. Personnel	Exemption 4				
b. Fringe Benefits					
c. Travel					
d. Equipment					
e. Supplies					
f. Contractual					
g. Construction					
h. Other					
i. Total Direct Charges (sum of 6a-6h)					
j. Indirect Charges					
k. **Totals** (sum of 6i-6j)					
7. Program Income					$0

Section C - Non-Federal Resources

(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) **Totals**
8. DE-FOA-0000096	Exemption 4			
9.				
10.				
11.				
12. **Total** (sum of lines 8 - 11)				

Section D - Forecasted Cash Needs

	Total Budget Period II	1st Quarter	2nd Quarter	3rd Quarter	4th quarter*
13. Federal	$15,330,614	$5,734,265	$7,575,027	$2,021,322	
14. Non-Federal	Exemption 4				
15. **Total** (sum of lines 13 and 14)					

Section E - Budget Estimates of Federal Funds Needed for Balance of the Project

	Future Funding Periods (Years)			
(a) Grant Program	(b) First - Phase !!	(c) Second	(d) Third	(e) Fourth
16. DE-FOA-0000096		$0	$0	$0
17.				
18.				
19.				
20. **Total** (sum of lines 16-19)	$0	$0	$0	$0

Section F - Other Budget Information

21. Direct Charges

22. Indirect Charges A provisional indirect was used

23. Remarks

* Since Phase II is a 25 month budget period, the 4th "quarter" was used to capture the remaining months (July '11 - December 12). The cash needs were not affected since Federal Funds were depleted in the prior quarter

Applicant Name: Algenol Biofuels Inc. Award Number: _____ Phase III

Budget Information - Non Construction Programs

OMB Approval No. 0348-0044

Section A - Budget Summary

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. DE-FOA-0000096	81.087				Exemption 4	
2.						
3.						
4.						
5. Totals		$0	$0	$0		

Section B - Budget Categories

6. Object Class Categories	Grant Program, Function or Activity				Total (5)
	(1) DE-FOA-0000096	(2)	(3)	(4)	
a. Personnel	Exemption 4				
b. Fringe Benefits					
c. Travel					
d. Equipment					
e. Supplies					
f. Contractual					
g. Construction					
h. Other					
i. Total Direct Charges (sum of 6a-6h)					
j. Indirect Charges					
k. **Totals** (sum of 6i-6j)					
7. Program Income					$0

Authorized for Local Reproduction

Section C - Non-Federal Resources					
(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) Totals
8. DE-FOA-0000096	Exemption 4			
9.				
10.				
11.				
12. **Total** (sum of lines 8 - 11)				

Section D - Forecasted Cash Needs					
	Total Budget Period III	1st Quarter	2nd Quarter	3rd Quarter	4th quarter*
13. Federal					
14. Non-Federal	Exemption 4				
15. **Total** (sum of lines 13 and 14)					

Section E - Budget Estimates of Federal Funds Needed for Balance of the Project				
	Future Funding Periods (Years)			
(a) Grant Program	(b) First - Phase !!	(c) Second	(d) Third	(e) Fourth
16. DE-FOA-0000096		$0	$0	$0
17.				
18.				
19.				
20. **Total** (sum of lines 16-19)	$0	$0	$0	$0

Section F - Other Budget Information	
21. Direct Charges	22. Indirect Charges A provisional indirect was used

23. Remarks

* Since Phase III is a 24 month budget period, the 4th "quarter" was used to capture the remaining months (July '13 - December '14). No Federal Funds were requested for this period.

Applicant Name: Algenol Biofuels Inc. Award Number: _____ Year 1

Budget Information - Non Construction Programs

OMB Approval No. 0348-0044

Section A - Budget Summary

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. DE-FOA-0000096	81.087			$10,122,637	Exemption 4	
2.						
3.						
4.						
5. Totals		$0	$0	$10,122,637		

Section B - Budget Categories

6. Object Class Categories	Grant Program, Function or Activity				Total (5)
	(1) DE-FOA-0000096	(2)	(3)	(4)	
a. Personnel	Exemption 4				
b. Fringe Benefits					
c. Travel					
d. Equipment					
e. Supplies					
f. Contractual					
g. Construction					
h. Other					
i. Total Direct Charges (sum of 6a-6h)					
j. Indirect Charges					
k. **Totals** (sum of 6i-6j)					
7. Program Income					$0

Section C - Non-Federal Resources

(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) Totals
8. DE-FOA-0000096	Exemption 4			
9.				
10.				
11.				
12. **Total** (sum of lines 8 - 11)				

Section D - Forecasted Cash Needs

	Total Budget Period III	1st Quarter	2nd Quarter	3rd Quarter	4th quarter
13. Federal	$10,122,637	$2,250,406	$2,479,452	$2,625,834	$2,766,943
14. Non-Federal	Exemption 4				
15. **Total** (sum of lines 13 and 14)					

Section E - Budget Estimates of Federal Funds Needed for Balance of the Project

	Future Funding Periods (Years)			
(a) Grant Program	(b) First	(c) Second	(d) Third	(e) Fourth
16. DE-FOA-0000096		$0	$0	$0
17.				
18.				
19.				
20. **Total** (sum of lines 16-19)	$0	$0	$0	$0

Section F - Other Budget Information

21. Direct Charges

22. Indirect Charges A provisional indirect was used

23. Remarks

Although the FOA requests the SF424 by "budget periods" we have also included one by year.

Applicant Name: Algenol Biofuels Inc. Award Number: _____ Year 2

Budget Information - Non Construction Programs

OMB Approval No. 0348-0044

Section A - Budget Summary

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. DE-FOA-0000096	81.087			$14,877,363	Exemption 4	
2.						
3.						
4.						
5. Totals		$0	$0	$14,877,363		

Section B - Budget Categories

6. Object Class Categories	Grant Program, Function or Activity				Total (5)
	(1) DE-FOA-0000096	(2)	(3)	(4)	
a. Personnel	Exemption 4				
b. Fringe Benefits					
c. Travel					
d. Equipment					
e. Supplies					
f. Contractual					
g. Construction					
h. Other					
i. Total Direct Charges (sum of 6a-6h)					
j. Indirect Charges					
k. **Totals** (sum of 6i-6j)					
7. Program Income					$0

Section C - Non-Federal Resources

(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) Totals
8. DE-FOA-0000096	Exemption 4			
9.				
10.				
11.				
12. **Total** (sum of lines 8 - 11)				

Section D - Forecasted Cash Needs

	Total For First Year	1st Quarter	2nd Quarter	3rd Quarter	4th quarter
13. Federal	$10,122,637	$2,250,406	$2,479,452	$2,625,834	$2,766,943
14. Non-Federal	Exemption 4				
15. **Total** (sum of lines 13 and 14)					

Section E - Budget Estimates of Federal Funds Needed for Balance of the Project

(a) Grant Program	Future Funding Periods (Years) (b) First	(c) Second	(d) Third	(e) Fourth
16. DE-FOA-0000096		$0	$0	$0
17.				
18.				
19.				
20. **Total** (sum of lines 16-19)	$0	$0	$0	$0

Section F - Other Budget Information

21. Direct Charges

22. Indirect Charges A provisional indirect was used

23. Remarks

Although the FOA requests the SF424 by "budget periods" we have also included one by year.

Applicant Name: Algenol Biofuels Inc. Award Number: _____ Year 3

Budget Information - Non Construction Programs

OMB Approval No. 0348-0044

Section A - Budget Summary

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. DE-FOA-0000096	81.087				Exemption 4	
2.						
3.						
4.						
5. Totals		$0	$0	$0		

Section B - Budget Categories

6. Object Class Categories	Grant Program, Function or Activity				Total (5)
	(1) DE-FOA-0000096	(2)	(3)	(4)	
a. Personnel	Exemption 4				
b. Fringe Benefits					
c. Travel					
d. Equipment					
e. Supplies					
f. Contractual					
g. Construction					
h. Other					
i. Total Direct Charges (sum of 6a-6h)					
j. Indirect Charges					
k. **Totals** (sum of 6i-6j)					
7. Program Income					$0

Section C - Non-Federal Resources

(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) Totals
8. DE-FOA-0000096	Exemption 4			
9.				
10.				
11.				
12. **Total** (sum of lines 8 - 11)				

Section D - Forecasted Cash Needs

	Total For First Year	1st Quarter	2nd Quarter	3rd Quarter	4th quarter
13. Federal	$10,122,637	$2,250,406	$2,479,452	$2,625,834	$2,766,943
14. Non-Federal	Exemption 4				
15. **Total** (sum of lines 13 and 14)					

Section E - Budget Estimates of Federal Funds Needed for Balance of the Project

(a) Grant Program	Future Funding Periods (Years) (b) First	(c) Second	(d) Third	(e) Fourth
16. DE-FOA-0000096		$0	$0	$0
17.				
18.				
19.				
20. **Total** (sum of lines 16-19)	$0	$0	$0	$0

Section F - Other Budget Information

21. **Direct Charges**

22. **Indirect Charges** A provisional indirect was used

23. Remarks

Although the FOA requests the SF424 by "budget periods" we have also included one by year.

Applicant Name: Algenol Biofuels Inc. Award Number: _____ Year 4

Budget Information - Non Construction Programs

OMB Approval No. 0348-0044

Section A - Budget Summary

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. DE-FOA-0000096	81.087				Exemption 4	
2.						
3.						
4.						
5. Totals		$0	$0	$0		

6. Object Class Categories	Grant Program, Function or Activity (1) DE-FOA-0000096	(2)	(3)	(4)	Total (5)
a. Personnel	Exemption 4				
b. Fringe Benefits					
c. Travel					
d. Equipment					
e. Supplies					
f. Contractual					
g. Construction					
h. Other					
i. Total Direct Charges (sum of 6a-6h)					
j. Indirect Charges					
k. **Totals** (sum of 6i-6j)					
7. Program Income					$0

Section C - Non-Federal Resources

(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) **Totals**
8. DE-FOA-0000096	Exemption 4			
9.				
10.				
11.				
12. **Total** (sum of lines 8 - 11)				

Section D - Forecasted Cash Needs

	Total For First Year	1st Quarter	2nd Quarter	3rd Quarter	4th quarter
13. Federal	$10,122,637	$2,250,406	$2,479,452	$2,625,834	$2,766,943
14. Non-Federal	Exemption 4				
15. **Total** (sum of lines 13 and 14)					

Section E - Budget Estimates of Federal Funds Needed for Balance of the Project

	Future Funding Periods (Years)			
(a) Grant Program	(b) First	(c) Second	(d) Third	(e) Fourth
16. DE-FOA-0000096		$0	$0	$0
17.				
18.				
19.				
20. **Total** (sum of lines 16-19)	$0	$0	$0	$0

Section F - Other Budget Information

21. Direct Charges	22. Indirect Charges	A provisional indirect was used

23. Remarks

Although the FOA requests the SF424 by "budget periods" we have also included one by year.

Applicant Name: Algenol Biofuels Inc. Award Number: _____ Year 5

Budget Information - Non Construction Programs

OMB Approval No. 0348-0044

Section A - Budget Summary

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. DE-FOA-0000096	81.087				Exemption 4	
2.						
3.						
4.						
5. Totals		$0	$0	$0		

Section B - Budget Categories

6. Object Class Categories	Grant Program, Function or Activity				Total (5)
	(1) DE-FOA-0000096	(2)	(3)	(4)	
a. Personnel	Exemption 4				
b. Fringe Benefits					
c. Travel					
d. Equipment					
e. Supplies					
f. Contractual					
g. Construction					
h. Other					
i. Total Direct Charges (sum of 6a-6h)					
j. Indirect Charges					
k. **Totals** (sum of 6i-6j)					
7. Program Income					$0

Authorized for Local Reproduction

Section C - Non-Federal Resources

(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) **Totals**
8. DE-FOA-0000096	Exemption 4			
9.				
10.				
11.				
12. **Total** (sum of lines 8 - 11)				

Section D - Forecasted Cash Needs

	Total For First Year	1st Quarter	2nd Quarter	3rd Quarter	4th quarter
13. Federal	$10,122,637	$2,250,406	$2,479,452	$2,625,834	$2,766,943
14. Non-Federal	Exemption 4				
15. **Total** (sum of lines 13 and 14)					

Section E - Budget Estimates of Federal Funds Needed for Balance of the Project

	Future Funding Periods (Years)			
(a) Grant Program	(b) First	(c) Second	(d) Third	(e) Fourth
16. DE-FOA-0000096		$0	$0	$0
17.				
18.				
19.				
20. **Total** (sum of lines 16-19)	$0	$0	$0	$0

Section F - Other Budget Information

21. Direct Charges

22. Indirect Charges A provisional indirect was used

23. Remarks

Although the FOA requests the SF424 by "budget periods" we have also included one by year.

Name of the Applicant: Algenol Biofuels Inc.

Principal Investigator: Dr. Craig R. Smith, Chief Operating Officer, Algenol Biofuels Inc.

Title: Integrated Pilot-Scale Biorefinery for Producing Ethanol from Hybrid Algae

Objectives: Algenol Biofuels Inc., together with The Dow Chemical Company, is proposing to construct an integrated pilot-scale biorefinery (Topic Area 1) that will convert carbon dioxide into ethanol using Algenol's proprietary DIRECT TO ETHANOL™ algae technology. The biorefinery will be located in Freeport, Texas on an existing Dow facility. The integrated pilot-scale biorefinery will consume two dry tonnes per day of carbon dioxide obtained from industrial emissions and will produce more than 100,000 gallons of ethanol per year. The project will also create or save more than 300 well-paying high-tech jobs in Texas, Maryland, and Florida and validate the commercial viability of a new breakthrough energy technology that could eventually create billions of dollars of economic value and thousands of new jobs.

Project Description: DIRECT TO ETHANOL™ technology is based on over-expressing in blue-green algae the genes for fermentation pathway enzymes found widely in nature. The resulting metabolically enhanced hybrid algae actively carry out photosynthesis and utilize carbon dioxide to make ethanol inside each algal cell. The ethanol diffuses through the cell wall into the culture medium and then evaporates, along with water, into the headspace of an enclosed, sealed photobioreactor. The ethanol-water vapor is then condensed, collected as a liquid, and distilled into fuel grade ethanol. Algenol currently has hybrid algae that produce ethanol at a rate equivalent to about 6,000 gallons per acre per year. The productivity of these algae is currently being evaluated

REDACTED
EXEMPTION 4

Potential Impact of the Project: Once the pilot biorefinery is fully functional, Algenol intends to construct multiple commercial production facilities that will each have a production capacity of more than 250 million gallons of ethanol per year. Based on an analysis by a premier economic consulting firm, during the three-year construction period of a commercial production facility, the project would generate over $1 billion in total economic output and would reach a peak employment of approximately 3,000 jobs. At completion, the project would annually generate over $700 million in total economic output and create approximately 2,800 permanent jobs. Algenol's DIRECT TO ETHANOL™ process has several advantages over competing methods for ethanol production. Algenol's process does not use food as a feedstock, does not require arable land and does not use large amounts of fresh water. Most importantly, it consumes large amounts of carbon dioxide, has a large positive net energy balance, and can substantially reduce net green house gas emissions. Once the Algenol process has been demonstrated to work at pilot-scale, it can be expanded to produce ethanol in very large amounts sufficient to allow the United States to reduce its dependence on imported oil.

Major Participants: Algenol has collaborative agreements with The Dow Chemical Company, the National Renewable Energy Laboratory, Membrane Technology & Research Inc., and The Georgia Institute of Technology. Dow will provide land on its facility in Freeport, Texas, assist in the development of specialized plastics, evaluate various ethanol-water separation technologies, evaluate and test various water treatment, handling and disposal options, provide engineering, analytical, EH&S, and administrative support, and supply all saltwater requirements.

PMC 410.1
(07/06)

U.S. DEPARTMENT OF ENERGY
PROJECT MANAGEMENT CENTER

FINANCIAL INFORMATION

PROVIDE ALL INFORMATION REQUESTED ON THIS FORM

Applicant: **Algenol Biofuels Inc.**

Project Title: **Pilot-Scale Integrated Biorefinery Operations for Producing Ethanol from Hybrid Algae**

Announcement/Award No: **DE-FOA-0000096 /**

1. Have you had prior Federal awards? ☐ Yes ☒ No

2. Have you had an outside audit or an A-133 audit? ☒ Yes ☐ No
If yes, please provide a copy of the A-133 or outside audit (electronic preferred).

INFORMATION FOR DETERMINING COGNIZANT AGENCY/OFFICE

3. Applicant's fiscal year end date is December 31st

4a. Identify Cognizant **Federal Agency** (agency providing the preponderance of Federal funding), and provide Agency name, a point of contact, phone number, and e-mail.

Agency: Department of Energy
Point of Contact: Christy Sterner
Phone: 303-275-4720
E-mail:Christy.sterner@go.doe.gov

4b. To assist our office in validating Cognizant **Federal Agency** (4a), please provide following information for the 5 highest dollar award value for current Federal contracts, grants or awards (do not include sub-awards). (State Agencies and Universities can skip 4b)

Contract/Award #	Awarding Agency	Awarding Office	Start Date	End Date	Total Value

5a. If applicant has current DOE awards, identify Cognizant **DOE Office** (office providing the preponderance of DOE funding), and provide DOE office name, a point of contact, phone number, and e-mail.

DOE Office:
Point of Contact (Contracting Officer):
Phone:
E-mail:

5b. To assist our office in validating Cognizant **DOE Office** (5a), please provide following information for the 5 highest dollar value awards for current DOE contracts, grants or awards (do not include sub-awards). (State agencies and Universities can skip 5b)

DOE Contract/Award #	DOE Awarding Office	Start Date	End Date	Total Value

FINANCIAL MANAGEMENT SYSTEM

To qualify for Financial Assistance, compliance with 10 CFR 600.121 - Higher Education, Hospitals, and Other Non-Profit Organizations, 10 CFR 600.220(b) - State and Local Governments or 10 CFR 600.311 - For-Profit Organizations is required. Please check applicable boxes below.

☐ The Financial Management System is in compliance with 10 CFR 600.121, 10 CFR 600.220(b), or 10 CFR 600.311.

☒ I do not know if my Financial Management System is in compliance with 10 CFR 600.121, 10 CFR 600.220(b), or 10 CFR 600.311. If this block is checked, complete the survey below.

Accounting System Survey

	Yes	No	NA
1. Is your Accounting System in accordance with Generally Accepted Accounting Principles applicable to the circumstances?	☒	☐	☐
2. Accounting System provides for:			
a. Segregation of direct costs from indirect costs.	☒	☐	☐
b. Identification and accumulation of direct costs by project.	☒	☐	☐
c. A logical and consistent method for the allocation of indirect costs to intermediate and final cost objectives. (Project is final cost objective)	☒	☐	☐
d. Accumulation of costs under general ledger control.	☒	☐	☐
e. A timekeeping system that identifies employees' labor by intermediate and final cost objectives.	☐	☐	☒
f. A labor distribution system that charges direct and indirect labor to appropriate cost objectives.	☒	☐	☐
g. Interim (at least monthly) determination of costs charged to a project through routine posting of books of account.	☒	☐	☐
h. Excluding costs charged to Government projects which are not allowable in terms of FAR 31, Contract Cost Principles and Procedures, or other provisions.	☒	☐	☐
i. Identification of costs by project line item and by units (as if each unit or line item were a separate project) if required by the proposed award.	☒	☐	☐
3. Is the Accounting System designed, and are the records maintained in such a manner that adequate, reliable data are developed for use in developing cost proposals?	☒	☐	☐
4. Is the Accounting System currently in full operation?	☒	☐	☐

SPECIAL TERMS AND CONDITIONS

Table of Contents

Number	Subject	Page
1.	CONDITIONAL AVAILABILITY OF FUNDS	2
2.	RESOLUTION OF CONFLICTING CONDITIONS	2
3.	AWARD AGREEMENT TERMS AND CONDITIONS	2
4.	ELECTRONIC AUTHORIZATION OF AWARD DOCUMENTS	3
5.	AWARD PROJECT PERIOD	3
6.	INTELLECTUAL PROPERTY PROVISIONS	3
7.	COST SHARE	3
8.	REPORTING REQUIREMENTS	4
9.	PAYMENT PROCEDURES	5
10.	REBUDGETING AND RECOVERY OF INDIRECT COSTS	6
11.	INSOLVENCY, BANKRUPTCY OR RECEIVERSHIP	6
12.	NATIONAL ENVIRONMENTAL POLICY ACT (NEPA) REQUIREMENTS	7
13.	STATEMENT OF FEDERAL STEWARDSHIP	7
14.	SITE VISITS	7
15.	PUBLICATIONS	7
16.	FEDERAL, STATE, AND MUNICIPAL REQUIREMENTS	8
17.	LOBBYING RESTRICTIONS	8
18.	NOTICE REGARDING THE PURCHASE OF AMERICAN-MADE EQUIPMENT AND PRODUCTS -- SENSE OF CONGRESS	8
19.	SPECIAL PROVISIONS RELATING TO WORK FUNDED UNDER AMERICAN RECOVERY AND REINVESTMENT ACT OF 2009 (May 2009)	9
20.	REPORTING AND REGISTRATION REQUIREMENTS UNDER SECTION 1512 OF THE RECOVERY ACT	13
21.	REQUIRED USE OF AMERICAN IRON, STEEL, AND MANUFACTURED GOODS – SECTION 1605 OF THE AMERICAN RECOVERY AND REINVESTMENT ACT OF 2009	14
22.	RECOVERY ACT TRANSACTIONS LISTED IN SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS AND RECIPIENT RESPONSIBILITIES FOR INFORMING SUBRECIPIENTS	17
23.	WAGE RATE REQUIREMENTS UNDER SECTION 1606 OF THE RECOVERY ACT	17
24.	DAVIS BACON ACT AND CONTRACT WORK HOURS AND SAFETY STANDARDS ACT	18

SPECIAL TERMS AND CONDITIONS

1. CONDITIONAL AVAILABILITY OF FUNDS

a. Notwithstanding the obligation of funds shown on the Assistance Agreement Cover Page, the parties hereby agree that the availability of funds to the Awardee for payment of costs incurred by the Awardee is conditioned upon the Awardee's submission of a full application and any subsequently requested supplemental information, the Contracting Officer's review and approval of the Awardee's application and supplemental information, and completion of negotiations. No funds, therefore, shall be made available to the Awardee for payment, and DOE does not guarantee or assume any obligation to reimburse costs incurred by the Awardee during the negotiation process.

b. When the parties have completed negotiations of all terms and conditions for this award, the Contracting Officer will issue an amendment to this award making available the obligated amount for payment in accordance with the payment provisions contained in the Special Terms and Conditions. The Awardee may then receive payment for allowable costs incurred or recognize costs incurred toward cost share requirements, as applicable, in accordance with the negotiated payment provisions.

c. Failure by the Recipient to provide an application and any subsequently requested supplemental documentation which is acceptable to the Contracting Officer, or failure to complete negotiations will be deemed noncompliance pursuant to 10 CFR 600.24. Based on such noncompliance, the Contracting Officer may unilaterally terminate or suspend this award. In such case, the Awardee shall not be reimbursed for costs incurred at the Awardee's risk, as described in Paragraph a. above.

2. RESOLUTION OF CONFLICTING CONDITIONS

Any apparent inconsistency between Federal statutes and regulations and the terms and conditions contained in this award must be referred to the DOE Award Administrator for guidance.

3. AWARD AGREEMENT TERMS AND CONDITIONS

a. This award consists of the Assistance Agreement, plus the following:
   1) Special Terms and Conditions.
   2) Applicable program regulations.
   3) DOE Assistance Regulations, 10 CFR Part 600 at http://ecfr.gpoaccess.gov.
   4) If the award is for research and the award is for a university or non-profit, the Research Terms & Conditions and the DOE Agency Specific Requirements at http://www.nsf.gov/bfa/dias/policy/rtc/index.jsp apply.
   5) Application/proposal as approved by DOE.