**CONCEPT PAPER COVER PAGE**

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

Bioenergy Technologies Office

Demonstration and Market Transformation

Integrated Biorefinery Optimization

Funding Opportunity Announcement Number: DE-FOA-0001689

CFDA Number: 81.087 Renewable Energy Research and Development

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| Applicant Information |
| Applicant Name: |       |
| Project Title: |       |
| Topic Area: |       |
| Major Project Subcontractors: |       |
| Major Project Vendors: |       |
| Key Individuals: |       |
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| --- | --- |
| **Scale and Feedstock Type (select one)** |  |
| **Feedstock Type** | **Pilot Scale** | **Demonstration Scale** | **Pioneer/Commercial Scale** |
| Cellulosic Biomass |       |       |       |
| Algae |       |       |       |
| Biogas |       |       |       |
| Flue gas + Microbial Conversion |       |       |       |
| Waste to Energy (biosolids, separated MSW, Organic-rich waste water, or industrial food and yard waste) |       |       |       |
|  |  |  |  |

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| Details |
| Specific Feedstock(s): |
|       |
| Primary Product (one) include percentage of carbon utilized for primary product: |
|       |
| Co-Products (other products) include percentage of carbon utilized for co-product(s): |
|       |
| Location(s) of Prior Scale’s Facility and Proposed Pilot or Demonstration Facility: |
| Prior:      Proposed:       |
| **Throughput of Proposed Facility** **(dry metric tons of cellulosic feedstock or biosolids; per day or gallons per acre per year for Algal technologies, scf/day for gaseous feedstocks):** |       |
| Technology Types: | Currently Achieved TRL per : | Short Description: |
| Feed System |       |       |
| Deconstruction/Fractionation |       |       |
| Synthesis/Upgrading |       |       |
| Algal Cultivation  |       |       |
| Algae Harvest & Dewatering  |       |       |
| Algal Downstream Processing |       |       |
| Biogas or Flue Gas Collection |       |       |
| Biogas or Flue Gas Clean-up |       |       |
| Biogas or Flue Gas Synthesis/Upgrading |       |       |
| Other (Describe) |       |       |
| Other (Describe) |       |       |
| Other (Describe) |       |       |
| Other (Describe) |       |       |