**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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Applicant Information | | | | |
| Applicant Name: | |  | | |
| Project Title: | |  | | |
| Topic Area: | |  | | |
| Major Project Subcontractors: | |  | | |
| Major Project Vendors: | |  | | |
| Key Individuals: | |  | | |
|  | |  | | |
| |  |  |  |  | | --- | --- | --- | --- | | **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) |  |  |  | |  |  |  |  | | | | | |
| 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) |  | |  | |