



GRU Renewable Energy RFP
2007-135

BIOMASS FUELED GENERATION FACILITY

Submitted by:



ENVORTUS

ENVORTUS INC.

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GRU Biomass Supply RFP No. 2007-135

Bidder: Envortus, Inc.
Project: Envortus Florida Biomass
Section: 1 – Executive Summary
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SECTION 1: EXECUTIVE SUMMARY

- Proposal Title:** Biomass Project for GRU Renewable Energy RFP 2007-135
- Company Name:** Envortus, Inc., a Delaware corporation (for proposal purposes.)
Note: A special purpose entity will be formed to develop, own and operate the project.
- Bus. Address:** 7701 Las Colinas Ridge, Suite 325, Irving, Texas 75063
- Project Type:** Biomass – Construction & Demolition Waste to Energy
- Technology:** Biomass gasification
- Net Peak Output:** 17.6 MW
- Generation Mode:** Continuous – Base-load
- Production:** 131,000 MWh per Year, first year
139,000 MWh per Year, thereafter
An expansion option is being offered
- Availability:** Expected a minimum of 85% year one and 90% thereafter
- Location:** On or adjacent to GRU Deerhaven Power Generating Station

Envortus, Inc., a Delaware corporation (“Envortus” or the “Company”), is a waste-to-energy project development company founded in early 2006. The Company is focused on providing solutions to the growing waste and power supply issues faced by local communities with populations of 50,000 to 500,000. Envortus’ community based waste-to-energy plants (“CBWTE”) utilize municipal solid waste, construction and demolition (“C&D”) waste, industrial waste and biomass to produce a bio-gas which is combusted to create heat and steam which is used to generate base-load renewable electricity.

Envortus is proposing to develop, construct and operate a biomass to energy project (the “Project”) which is capable of peak net generating capacity of approximately 17.6 MW by recovering the energy content from approximately 400-500 dry tons per day of biomass from urban wood, waste from construction and demolition debris, cardboard, yard waste and land clearing waste. The Project is expected to operate continuously as a base-load renewable energy facility and will be capable of generating 139,000 MWh per year at an expected capacity factor of 90 percent. The Project will initially utilize urban wood waste, construction and demolition waste (wood, cardboard, textiles, etc.) and yard waste as the primary fuel. However, the Project may incorporate other solid wastes meeting the GRU renewable definition as it becomes available in the area and as the Project’s operating permits allow. The Project will be located at or adjacent to GRU’s Deerhaven Power Generation Station. For this response, Envortus has proposed a power purchase agreement (“PPA”) between the Project and GRU. The PPA as proposed is an energy only pricing structure. However,

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Envortus is willing to discuss (a) other structures, including potential GRU participation or future acquisition and (b) other pricing structures, including those that include both capacity and energy payments.

Envortus has assembled an experienced and capable team of business partners, suppliers and subject matter experts for the purposes of developing, financing, constructing and operating the proposed CBWTE project. The team consists of:

Envortus, Inc. - Lead Developer: A Delaware corporation based in Dallas Texas, whose management team has over 100 years of power project development, construction and operation expertise which they have successfully applied to build out over 4,000 MW of operating distributed generation, combined heat and power and wind energy projects on several continents (See www.envortus.com);

USRG Power & Biofuels Fund II, L.P. - Co-Developer and Lead Equity Sponsor: A Delaware limited partnership (“USRG”), which is a renewable energy fund based in Santa Monica, California, that was formed to make investments in a diversified portfolio of investments in renewable energy and clean fuel assets and companies. USRG will provide the full equity required for the Project, subject to Envortus being selected by GRU and executing a power purchase agreement and other agreements on terms satisfactory to USRG and a project lender, if the project is leveraged (See www.usregroup.com);

Chiptec, Inc. - Proposed Suppliers of Conversion Technology: Chiptec is based in S. Burlington, Vermont and has over 20 years of experience in the biomass combustion industry and viewed as a leader in advanced biomass gasification technology with over 125 successful installations in North America (See www.chiptec.com).

Patch Services, Inc. – Proposed Owner’s Engineer and Engineering, Procurement and Construction Provider: Patch Service, which has offices in California and Texas, includes a dedicated group of professionals with the vision, experience and ability to plan and perform all the engineering, project management and construction management services required for the Project. Patch will engineer a turnkey system, procure all of the equipment required for the balance of plant and provide construction management services (See www.patchservices.com); and

Grove Scientific & Engineering, Inc. - Proposed Environmental Engineer: Grove is a certified minority business enterprise based in Orlando, Florida and specializing in engineering, air pollution source permitting and testing, ambient air monitoring and modeling, industrial hygiene, indoor air quality, sound level monitoring, hazardous waste auditing and consulting, water quality studies and routine monitoring, N.P.D.E.S. permitting for storm water and wastewater, toxicity testing and specialty microbiology services. Grove will support the initial construction, operating and emissions permitting of the Project and remain involved in its ongoing compliance program (See www.grovescientific.com).

Envortus is currently in the process of identifying third party project operations and maintenance firms for the project.

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A special purpose project entity will be formed for the purposes of entering into all of the requisite agreements, including the power purchase agreement, and securing all the permits and studies for developing, constructing, owning and operating the Project.

Addenda Acknowledgement:

We acknowledge receipt of addenda number #1 dated November 29, 2007.

SIGNATURE:  DATE: Dec 13th, 2007
NAME OF CERTIFYING OFFICIAL: **Thomas M. Carbone**
TITLE or POSITION: **Chief Executive Officer**

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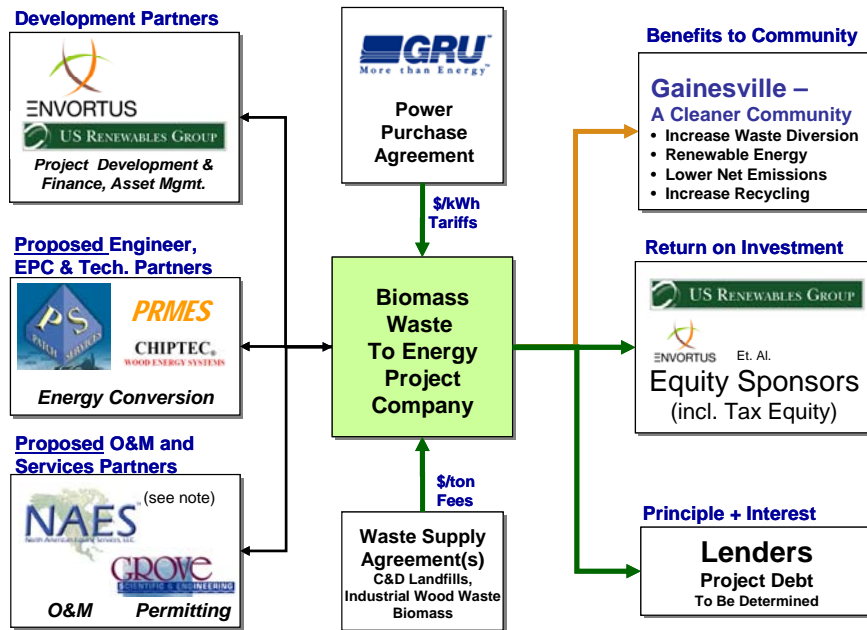
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SECTION 2: FINANCIAL STRUCTURE OF THE PROPOSAL

Project Structure: The Project is being proposed as traditional a build, own, operate (“BOO”) structure where revenues are derived from a long-term (20 year proposed) take or pay style Power Purchase Agreement with GRU. Fuel supply (biomass and other wood wastes) is secured through third-party Waste Supply Agreements. The follow diagram is illustrative the Project structure and relationship of the Project partners and suppliers:



Note: NAES (North American Energy Services) is a provider of O&M services at existing USRG biomass facilities and is a candidate of such services for the Project.

Envortus is not opposed to exploring other financial structures and contractual arrangements with GRU, such as but not limited to a build, operate, transfer model or joint-venture arrangement. However, for the purposes of this response, the simple solution was to propose the BOO model as that is what appears to be requested in this step of the bid process.

Power Purchase Agreement: Envortus is accustomed to a typical set of risks and mitigating actions which are to be addressed with GRU under the terms of the PPA. Most power purchase agreements are structured to provide revenues to the project company on a scheduled price basis for a 20-year term which is greater than the term of the project debt financing which is expected to be 13 to 15 years. Envortus and its lenders would prefer to have "take-or-pay" provisions, which obligate GRU to pay for electricity on a regular basis whether or not GRU actually takes electricity. The power

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purchase agreement also should attempt to limit GRU's right to curtail production to events of force majeure or emergency situations.

The power purchase agreement will address construction and operational matters of interest to GRU and the lenders, including the consequences of late completion of the facility other than for force majeure, with liquidated damages and termination rights if an agreed final deadline is missed; the minimum delivery obligations of Envortus; and damages payable to GRU. Envortus would agree with GRU to reasonable market based terms and conditions for each of these performance guarantees and mitigants.

Envortus will require GRU to enter into a separate consent agreement with the Project lenders pursuant to which GRU will acknowledge and agree to the security interest granted to the lenders in the Project assets, including the Power Purchase Agreement, and to specifically negotiated, extended cure rights and step-in rights of the lenders or their transferees. Such a consent agreement will be required by the lenders for all of the key Project agreements. These consent agreements typically include restrictions on amending the applicable agreement being assigned for security purposes and require notices to the lenders.

Envortus recommends that GRU propose a term sheet for the Power Purchase Agreement, inclusive of its performance security requirements.

Pricing: Pricing is discussed in Section 5 – Economic Information.

Price Escalation: The Project will require an annual energy charge escalation factor equivalent to the higher of either the GRU system-wide escalation approved by the Public Utilities Commission or 2.3%. Table 1 in Section 5 – Illustrative All-In Production Cost Information was developed using a 2.3% annual price escalation factor.

Renewable Attributes: All energy, capacity and renewable energy attributes (except for Production Tax Credits and accelerated depreciation benefits) will be provided to and allocated for the benefit of GRU as part of a comprehensive power purchase agreement. Using estimates prepared by the US DOE and EPA, Envortus anticipates that the project will create approximately 240,000 tons per year of CO₂ equivalent reduction through methane destruction (landfills) and fossil fuel generation offsets (coal as benchmark). Please note, this level of CO₂ reduction is only an initial estimate.

Transmission and Interconnection Cost: Envortus has estimated and included in its proposal the cost of physically connecting into the existing 138 kV system. The cost has been estimated for a scope that terminates at the buss on the high side of the Project step-up transformer. All other interconnection costs to be on the account of GRU.

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SECTION 3: TECHNICAL INFORMATION

3.a: Description of Technology and Configuration

Biomass gasification technology is not new; it has been commercially proven for more than four decades. The gasifier is the burner for the boiler. All primary and secondary air (combustion air) for the entire gasification process is provided by an induce draft fan (“ID fan”) located in the flue gas breeching of the system. The boiler pressure controls the ID fan. The gasifier and boiler system both operate under negative draft.

The ID fan draws combustion air in through the bottom of the gasifier. The ambient air is drawn up through air channels formed by the cosmetic skin of the gasifier and the structural panels of the inner gasifier box. This combustion air is heated up to between 150F to 200F. The air travels up the sides of the gasifier and exits at a single point approximately in the middle of the gasifier top. The air then enters into a duct that will direct the air to either the primary air zone or the secondary air zone of the gasifier.

The primary air is directed to and introduced into a chamber below the internal grates of the gasifier. It is the primary air that travels through the fuel pile and creates the gas for the process. The secondary air is directed through a second duct to the burner nozzle located on the gasifier. The secondary air completes the combustion process. An oxygen sensor located in the flue gas breeching controls a balancing valve located in the main air duct. The oxygen sensor provides information to the plc and adjusts the balancing valve as required to maintain the desired oxygen set point.

The proposed biomass fired power Plant will be designed for a peak net output of 17.6 MW. The fuel for this Plant will be urban wood, yard waste, clearings, and clean construction and demolition debris.

The fuel is burned in the refractory lined gasifier on an inclined stationary grate system. Bottom ash from the inclined grate is collected in a trough that is equipped with a water-cooled screw conveyor. The flights on the water-cooled screw conveyor are pitched to deliver the bottom ash to opposite sides of the gasifier. The bottom ash is then transported with conventional screw conveyors to two 5 cubic yard ash collection dumpsters.

Hot gases from the gasifier are drawn into four “D Type” boiler. Each boiler will have a nominal steaming capacity of 42,000 PPH at 600 PSIG and 750°F. The flue gas exiting the boiler will be ducted to two multi-cyclone particulate collectors. A finned tube stack gas economizer will be installed downstream of the two multi-cyclone particulate collectors to reduce the flue gas temperature to 400°F or less. An induced draft fan will be installed downstream of the economizer to direct the flue gas into the bottom of the 50’ tall stack.

Ash from the multi-cyclone hoppers will remove via airlocks and transported to the ash collection dumpsters with screw conveyors.

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Main steam from the boiler will be directed into the steam turbine at a rate of 42,000 PPH per boiler. One 3,500 PPH extraction will be used for pegging the condensate de-aerator.

The Project's major equipment list is shown as Exhibit 2. The Project's indicative plant layout drawing is shown in Exhibit 3.

Envortus would be pleased to arrange a tour of an operating facility for GRU staff members to observe and evaluate the renewable energy from the gasification of biomass in this type of waste conversion process.

3.b: Major Equipment Manufacturers

Envortus has received and evaluated two proposals for the biomass combustion/gasification and heat recovery portion of the Project. Chiptec, Inc. is based in S. Burlington, Vermont and has over 20 years of experience in the biomass combustion industry and viewed as a leader in advanced biomass gasification technology with over 125 successful installations in North America (See www.chiptec.com). PRM Energy Systems, Inc. is based in Hot Springs, Arkansas. Its first two gasifiers were installed in 1982 to gasify rice husks to produce process heat and steam for a large rice parboiling facility. PRM Energy has enjoyed a successful track record for supplying over 25 biomass and RDF gasification systems to governments, industrial clients and independent power producers worldwide (See www.prmenergy.com). Each of these two suppliers is capable of engineering and supplying the waste conversion technology consisting of the feed hopper, gasifiers, boilers and associated emissions controls and connections. For the purposes of this proposal, Envortus has used the cost and operational information based on the Chiptec system.

3.c: Fuel Supply and Requirements

Primary Fuel: The primary fuel source will be urban wood wastes, cardboard, waste derived from construction and demolition debris, yard and land-clearing, and utility right-of-way trimming. Based on experience and values published, including those as seen in Appendix A, Table 2, of the GRU RFP document,, Envortus has assumed an average energy content of 7,400 BTU/lb (air dry at 20% moisture content) for the wood waste and a range of 4,300-8,500 Btu/lb for the remaining waste supply, depending on moisture content. The Project will require a approximately 400-500 tons (dry tons) of waste per day for introduction into the system, assuming a 90% capacity factor.

Supply Arrangements: Final arrangements and commitments on the fuel supply are not in place as of the submission date of this response. However, Envortus has had ongoing discussions with area C&D landfill operators and haulers as the result of another biomass generation development opportunity in northern Florida.

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In addition to the above primary fuel suppliers, the Project expects to enter discussions with local utilities and municipalities about receiving wood waste from right-of-way clearing operations. This concept can benefit the utilities and municipalities by reducing their processing and disposal costs for tree limbs, tree trunks, etc. from line and road clearing. The Project would handle the resultant grinding and chipping responsibilities, and in some cases also the transportation. The Project would be pleased to discuss such a wood waste arrangement with GRU's operations group.

A detailed biomass and waste characterization study for the GRU region has not been performed by Envortus. However we have used in our assumptions information from two studies conducted by the University of Florida School of Forest Resources and Conservation ("UFSFRC") i) Biomass Resource Assessment Availability and Cost Analysis of Woody Biomass for Gainesville Regional Utilities 2007 Parts I & II and ii) Generation and Composition of Construction and Demolition Waste in Florida dated 2001-2002 and 2005.

Fuel Risks: The long-term quantity and quality of the fuel supply to be delivered to the Project will be provided for through long-term agreements with haulers, the landfill owner(s) and waste collectors. While Envortus believes that waste from area C&D landfills is suitable, it is also having discussions with the owners and operators of other facilities for biomass waste fuel supply.

The potential revenues from tipping fees associated with the receipt of these wastes to the Project may represent a portion of the Projects' revenues and can help offset the energy price required by the Project from GRU. At this stage of the Project development, however, there is uncertainty regarding the level of tipping fees available to the Project. Such fees will be negotiated with the fuel suppliers.

Envortus' project development team has substantial experience in contracting fuel supplies with minimum and maximum periodic volumes, pricing, escalation, defaults, damages, force majeure, credit support and other provisions which will be coordinated with the other project agreements to ensure that the Project can provide adequate debt service coverage ratios, if applicable, and equity returns, with operating risk mitigation strategies in place.

Envortus intends to complete the negotiation and execution of the Waste Supply Contract(s) or obtain Letters of Commitment clearly indicating Fuel Control within a period of three (3) months of the execution of the Power Purchase Agreement with GRU.

3.d: Net Capacity Rating

Peak net capacity (MW) will be approximately 17.6 MW. Upon mutual agreement with GRU, the Project can be scalable up to 35 MW as additional sources of waste are identified and contracted, and as permits allow. Some additional time may be required to bring the expansion capacity online, if the expansion option is not elected by GRU at the time of signing the PPA.

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Availability – Based on experience, actual availability during the initial year of operations is expected to be roughly 88%, with subsequent years in the range of 93%. Availability guarantees given by the project will be consistent with those provided by the equipment supplier.

Forced (unplanned) outages – Expected not to exceed 270 hours or approximately 3% annually.

Planned outages – Semi-annual service to the controlled gasifiers and boilers will be required. An annual total of 480 hours or approximately 5% of planned outages is expected. Semi-annual service is planned for the April-May and October-November periods. Other time periods can be worked out with GRU. During the planned outage periods, preventative maintenance on other plant equipment will be simultaneously conducted.

3.e: Indicative Net Heat Rates

The higher heating value (HHV) heat rate for similar projects using the major equipment noted will range between 12,200 Btu/kWh to 14,000 Btu/kWh depending on final power equipment configuration, boiler feed water temperatures and cooling system selection. For the purposes of this response, Envortus has selected a configuration that will deliver 13,100 Btu/kWh HHV at low emissions rates.

3.f: Site Requirements and Layout

CBWTE projects are best sited adjacent to (i) major sources of community waste, (ii) waste handling and processing points such as transfer stations or material recovery centers, (iii) existing landfills or (iv) the site for significant users of heat and steam. The Deerhaven Power Generation Station site for the Project will require approximately three acres of land to allow for adequate space for material delivery, preparation and waste conversion facilities, the power island and the balance of plant, the emissions controls and interconnecting facilities. Additional land may be required for an adequate amount of set-backs as needed. Interconnection is anticipated into GRU's transmission system located on or in the vicinity of the selected site.

An indicative layout of the project is shown in Exhibit 3 of the Attachments

3.g: Project Permitting, Construction Schedule and In-Service Date

It is Envortus' experience from its present CBWTE projects that development lead-times are anywhere from 24 to 36 months from when work first starts and commercial operations of the project occur. As such, Envortus believes that it can complete development, construct a facility and contribute 17.6 MW of base-load renewable energy within 24 to 36 months of executing a power purchase agreement.

For purposes of this response, the Company assumes that GRU will issue its Letters of Intent no later than May 1, 2008, and that a Power Purchase Agreement will be

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executed no later than August 1, 2008. Following the Letters of Intent, Envortus would initiate those development activities related to waste supply, site control and permits following the Letter of Intent. Given these date assumptions, the Project could achieve an early Commercial Operation Date by the end of 2009, however, a Commercial Operations date of April 1, 2010 is expected.

Activity No.	Activity	Early Start	Early Finish
<i>Development Related</i>			
1100	Submission of Bid to GRU	14-Dec-07	14-Dec-07
1200	LOI From GRU	12-Apr-08	12-May-08
1300	Completion of Waste Supply Commitment-Agreement	11-Jul-08	8-Nov-08
1400	Completion of Land Control Commitment-Agreement	11-Jul-08	8-Nov-08
1500	Completion of Power Purchase Agreement	11-Jul-08	10-Aug-08
1600	Completion of Environmental Assessment Studies	8-Dec-08	7-Jan-09
1700	Completion of Interconnection Studies	11-Jul-08	9-Oct-08
1800	Tax Equity and Project Finance Commitment	8-Nov-08	8-Dec-08
<i>Engineering, Procurement and Construction Related</i>			
1000	Start Development Engineering	12-May-08	11-Jun-08
1010	Notice to Proceed	23-Nov-08	23-Dec-08
1020	Begin Detailed Engineering	23-Nov-08	23-Dec-08
1030	Begin Procure/Fab & Deliver	22-Jan-09	10-Aug-08
1040	Begin Construction	22-May-09	21-Jun-09
1050	Begin Test/Start Up & Operation	19-Sep-09	19-Oct-09
1060	Commercial Operation	23-Nov-09	23-Dec-09

Permitting: As of the date this response, Envortus has not initiated the filing of any studies or applications for the Project. A final review of permitting and study requirements is under way by the environmental engineer. The completion of site selection and site control will be the primary action required prior to initiating any studies or the filing of any applications.

Air Permits: Prior to construction, the Project entity will be required to apply for and obtain an air pollution construction permit by submitting an application to Duval County/City of Gainesville who has permitting jurisdiction from the Florida Department of Environmental Protection for permitting, compliance and enforcement of State air pollution regulations.

Based on our environmental engineer's review of federal regulations, the waste conversion technology being proposed in this response does not have a Federal standard in either 40 CFR part 60 or part 63. This would likely put the Project into a general source category and emission limits that would be negotiated with the permitting authority. Envortus would present emission calculations in the construction permit application and the permitting authority would likely accept them and require the Project to demonstrate compliance via a stack test. The initial assessment concluded that the Project would be a minor source with the appropriate emissions controls installed.

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The Project will require a review under Rule 62-210.200(185)(a)3, F.A.C., New Source Review (NSR) for Prevention of Significant Deterioration (“PSD”) resulting from anticipated levels NOx, PM/PM10 and CO emissions. This review consisted of a determination of Best Available Control Technology (“BACT”) and an analysis of the air quality impact of the increased emissions. The review also includes an analysis of the Project’s impacts on soils, vegetation and visibility, along with air quality impacts resulting from associated commercial, residential and industrial growth.

The proposed Project may not be subject to PSD review with respect to Rule 62-210.200(185)(a)3, F.A.C. due to its aggregate emission level expected to be less than 250 TPY. BACT determinations are required for each pollutant emitted in excess of the Significant Emission Rates that are listed in Rule 62-210.200(264), F.A.C. These values are 40 TPY for NOx, 100 TPY for CO and 15 TPY for PM10.

Based on the established application and response timeframes established in the Florida Department of Environmental Protection guidelines for the air pollution construction permitting process, Envortus expects that permitting could take from 4 to 6 months. Envortus intends to request and participate in a pre-construction review meeting with the permit writers.

Applicable regulations under the Florida Administrative Code would be:

Chapter/Rule	Description
Chapter 62-4	Permits
Rule 62-204.220	Ambient Air Quality Protection
Rule 62-204.240	Ambient Air Quality Standards
Rule 62-204.260	Prevention of Significant Deterioration Increments
Rule 62-204.360	Designation of Prevention of Significant Deterioration Areas
Rule 62-204.800	Federal Regulations Adopted By Reference
Rule 62-210.200	Definitions
Rule 62-210.300	Permits Required
Rule 62-210.350	Public Notice and Comments
Rule 62-210.370	Reports
Rule 62-210.550	Stack Height Policy
Rule 62-210.650	Circumvention
Rule 62-210.700	Excess Emissions
Rule 62-210.900	Forms and Instructions
Rule 62-212.300	General Preconstruction Review Requirements

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Rule 62-212.400	Prevention of Significant Deterioration
Chapter 62-213	Operation Permits for Major Sources of Air Pollution
Rule 62-296.320	General Pollutant Emission Limiting Standards
Rule 62-296.403	Phosphate Processing
Rule 62-297.310	General Compliance Test Requirements
Rule 62-297.401	Compliance Test Methods

For purposes of our review, the Project has used the definition of “wood” from 40 CFR 60 Subpart Db – “Wood means wood, wood residue, bark or any derivative fuel or residue thereof, in any form, including, but not limited to, sawdust, sanderdust, wood chips, scraps, slabs, millings, shavings, and processed pellets made from wood or other forest residues” in the preparation of applications for permits. At this time, we are assuming that no wood waste containing chromated copper arsenate (“CCA”) is employed. A technical and emissions assessment using the proposed waste conversion technology is being conducted to determine the emission profile of the Project when nominal amounts of CCA treated wood are introduced in the waste stream.

Regulatory Permits and Studies: An exhaustive review of all potential regulatory permits and studies has not been completed. Based on experience, the following preliminary list outlines the known regulatory permits and studies:

Agency	Issue/Regulation	Coordination/Permit Details	Coordination/Permit Required?
U.S. Fish & Wildlife Service	Endangered Species Act	Impacts to threatened and endangered species	Not expected
U.S. Fish & Wildlife Service	Migratory Bird Treaty Act	The project could impact mature vegetation that may support migratory bird nesting. Clearing should occur outside nesting season, or a qualified biologist should conduct a nest survey.	Not expected
U.S. Army Corps of Engineers (USACE)	Waters of the U.S., including Wetlands	Individual or Nationwide Permit(s) potentially required depending on infrastructure layout	Permits potentially required depending on project impacts to jurisdictional waters of the U.S
Florida DEP NPES	Florida General Permit for Storm Water Discharges	Greater than/equal to one (1) acre and or part of larger development	Yes; SWPPP (with NOI) required.

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Florida DEP NPES	Florida Environmental Resource Permitting – Groundwater, Surface Water quality certification	Various sections of the Water Resource Management Rules to be reviewed.	Yes; review of applicability
Federal Emergency Management Agency	Impacts to 100-year flood plains		No

In addition to the above, there may be local City of Gainesville ordinances which will require additional research for applicability to the Project.

Non-regulatory Permits and Studies: The Envortus team has worked on numerous energy projects located on private land through the development, financing and construction phases. It has been the team’s experience that equity sponsors and lenders require investigations in addition to those they are compelled to be conducted by law. These can include archaeological surveys, petroleum and hazardous substances site assessments (Phase I Environmental Site Assessment), avian surveys and development of a National Environmental Policy Act-style Environmental Assessment.

Land Use Rights and Easements: The Deerhaven site is already zoned for industrial use. At this early stage, title searches and opinions have not been initiated for the site. Transmission line easements may be required. Envortus will assume for the purpose of this proposal that GRU and the City of Gainesville will fully cooperate with the bidders for securing the necessary land rights and easements.

3.h: Dispatchability of Project

The Project is being proposed as a “must-run” renewable energy facility. For this proposal, pricing is being proposed on an energy-only basis. In order to designate the Project for GRU as the more preferred “dispatchable” resource, Envortus will require a discussion with GRU regarding its expected nature and timing of dispatch and curtailment which then can be reevaluated by Envortus in order to offer a revised energy plus capacity pricing option, if desired by both parties, taking into account GRU dispatchability plans.

3.i: Environmental Characteristics and Emissions Rates

Emissions profiles for the selected technologies vary due to differences in design of the gasifiers, oxidizers and boilers. The table below is indicative of the emission before and after emission control:

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Pollutants	Uncontrolled				Controlled			
	Rate lb./MMBtu	Total lb./hr	24 hr day lb/day	TpY	Rate lb./MMBtu	Total lb./hr	24 hr day lb/day	TpY
Particulates:**	0.200	45.0	1080.1	197.1	0.030	6.8	162.0	29.6
Oxides of Nitrogen:	0.267	57.1	1371.3	250.3	0.076	17.1	411.4	75.1
Carbon Monoxide:	0.145	32.7	784.7	143.2	0.145	32.7	784.7	143.2
Volatile Organic Compounds:*	0.017	3.8	91.8	16.8	0.017	3.8	91.8	16.8
Sulfur oxides:*	0.025	5.6	135.0	24.6	0.025	5.6	135.0	24.6
Total Emissions				632.0				289.2

* Emission factor taken from AP-42, 5th edition updated 2003
 ** Emission rate after multi-cyclone

These profiles will require the installation of emissions controls. Fly ash arrestor, wet caustic scrubber, Selective Non-Catalytic Reduction system (“SNCR”), multi-cyclone, electrostatic precipitator (“ESP”), venturi scrubber, multiple tube dry collectors, Joy-type impingement scrubber, spray dryer and absorber, fabric filter are many of the available control technologies that have been deployed on wood biomass plants and are under review. At the 17.6 MW peak net production level, the emissions goal will be to maintain the Project as a minor source emitter.

Environmental Studies: As of the date this response, Envortus has not initiated the filing of any studies or applications for the Project. A final review of permitting and study requirements is under way by the environmental engineer. The completion of site selection and site control will be the primary action required prior to initiating any studies or the filing of any applications. Section 6 – Permits and Approvals, provides information on the anticipated regulatory environmental permits and studies that will be initiated once site control is secured.

3.j: Ash Production and Other By-Products

Ash is the byproduct of the gasification process. This material has several uses in the building and construction industry (e.g., it can be mixed in with concrete and asphalt). Additionally, the material can be combined with sand and crushed concrete and used as alternating daily cover at landfills. Any inert materials in the incoming waste stream which are not convertible to a syngas such as glass and metals (nails) will be recovered from or encapsulated in the ash. Approximately 5% by weight of the incoming waste processed by the gasifier unit is turned into a dense carbon char. The Project anticipates processing approximately 400-500 tons (net, dry) of wood waste per day; this will result in approximately 20-30 tons of ash per day as a byproduct.

3.k: Water Usage

The biomass gasification process requires boiler and condenser make-up water for the Rankin steam cycle power island. Water towers or radiator systems can be utilized by the system for cooling the steam loop. Water towers will consume approximately 800 gallons of water for every net ton of waste wood processed. Given the energy production estimates mentioned above, Envortus anticipates that the system will use

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approximately 450,000 gallons of water per day when employing cooling towers. On the other hand, employing a closed-loop low-noise radiator field will result in an 80% reduction in the amount of water used. However, the parasitic load of the radiator field will reduce the net capacity of the Project by 500-600 kW. Envortus' development team has experience with both types of cooling systems and will select the appropriate system given water availability and cost considerations.

3.l: Electrical Interconnection Requirements

Interconnection is anticipated into GRU's 138 kV transmission system located on the Deerhaven Power Generation Station. Envortus has estimated and included the cost of connecting into this system for the purposes of calculating the indicative power prices shown in this RFP response. The project will have to step-up voltage from 13.8 kV to 138 kV. Given its size, the Project can potentially interconnect into GRU's distribution system if that is preferred by GRU and if such system can manage the additional generation.

3.m Readiness of the Proposed Technology**3.n Reliability of the Proposed Technology**

For section 3.m and 3.n please see discussion in 3.a. The two main sources of biomass gasification technology – Chiptec and PRM Energy are well know in the biomass and RDF waste to energy industry and have been manufacturing and installing such systems for more than twenty years each and have proven reliable installations worldwide in the capacity size being proposed for this response. Envortus would be pleased to arrange visits to the operating projects using the Chiptec and PRM Energy solutions.

3.o: Performance Guarantees, Warranties and Mitigants

Topic already covered - see discussion in Section 2 – Financial Structure

3.p: Backup Systems and Fuels

Envortus CBWTE plants are designed by industry professionals for utility grade operations and as such include all the safety and monitoring systems to ensure predictable power generation capability. The Project is being designed for a minimum availability of 85%, with 90% or greater expected.

Aside from biomass fuels noted in this response, the system will require a startup fuel such as natural gas, propane or kerosene to ignite the gasification process.

3.q: Estimated Truck Traffic

A separate truck traffic analysis for the area surrounding the Deerhaven Power Generating Station has not been conducted. However, for the purposes of this response the information developed by UFSFRC in their Biomass Resource Assessment Availability and Cost Analysis of Woody Biomass for Gainesville Regional Utilities 2007 Part 1 has been used. Using the Project's proportion of biomass used against the UFSFRC study's 40 MW total biomass supply, and an estimate of the average truck

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capacities for different types of biomass, Envortus estimates that 11,000-13,000 truckloads per year will be needed to supply the 17.6 MW facility.

The projected biomass volume represents approximately 35-40 truckloads per day assuming 25 tons per truck based on 330 days per year. Assuming a 10 hour daily delivery window, this would result in approximately 3-4 truckloads per hour. Given the conclusion of the UFSFRC analysis, this would represent less than 1/3% increase in truck traffic on the major routes leading to the Deerhaven Power Generation Station.

3.r: Sustainable Resource Forest Management

Envortus, and the whole CBWTE concept embraces the following sustainable resource management principles now widely recognized by our society:

- Sustainable resource management strives to ensure that the effects of our actions now maintain or even enhance, rather than diminish, the quality of life in our environment for our children and their children.
- Sustainable resource management fosters natural resource conservation and continued proper functioning of healthy ecosystems.
- Sustainable resource management promotes production, consumption, and waste management practices that allow us to keep resources available for use indefinitely.
- Sustainable resource management requires short-term and long-term decision-making that aims to protect or enhance watersheds, plants, wildlife, human life, and our economic and social systems for the benefit of future generations.

These same principles are appropriately applied to the sustainable forestry management. There has been substantial progress in Florida via regulatory and incentive measures such as Florida's Rural and Family Lands Protection Act of 2001, the 2002 Farm Bill (Federal Farm Security and Rural Investment Act of 2002), FLEP (Forest Land Enhancement Program) for forest landowners to adopt conservation practices. However, there are continuing environmental concerns in Florida regarding the progress of defining sustainable forestry management and stewardship.

While increased emphasis on environmental regulation in the forestry and natural resource sector is expected to continue, Envortus intends to adopt and apply procurement practices that address environmental concerns through standards now being used to develop sustainable forest management guidelines both nationally and internationally. Under this program, the Envortus Project entity would require its biomass fuel suppliers to also comply with those nationally recognized standards used within the forest industry, such as the American Forestry & Paper Association Sustainable Forestry Initiative and/or the Forestry Stewardship Council Certification.

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SECTION 4 – Economic Information

The requested information to be provided in this section is being presented in table format for ease of presentation.

Annual Capacity Charge	For the purposes of this RFP response, pricing was done on energy only basis.
Energy Charges Year 1 and Index	Energy Charges for Year 1 are shown in Table 1 of Section 5 – Illustrative All-In Production Cost. The Project will require an annual energy charge escalation factor equivalent to the higher of either the GRU system-wide energy charge escalation approved by the Public Utilities Commission or 2.3%.
Variable O&M Charge and Index	Variable O&M costs are estimated to be roughly \$5/MWh, depending on operating profile and fuel source. These costs are included in the values shown in Table 2 of Section 5 – Illustrative Cost for Economic Dispatch.
Start Charges and Index	To be determined.
Transmission Wheeling Charge	No Charge – Project is assumed to be able to interconnect at GRU’s Deerhaven Power Generating Station into the GRU service system.
Fuel Cost Assumptions	Fuel Cost Assumptions for the purposes of calculating the Energy Charges shown in Table 1 of Section 5 are consistent with estimates provided in the UFSFRC studies referenced in this response. However, based on Envortus’ experience these figures appear to be in the high end of market fuel prices.
REC and Environmental Allowance	All renewable energy attributes (except for Production Tax Credits and accelerated depreciation benefits) will be provided to and allocated for the benefit of GRU as part of a comprehensive power purchase agreement. Any additional costs associated with managing and documenting the power plant operations in a manner that maintains GRU’s certification for such attributes will be reimbursed to the Project entity by GRU.
Tax Credits	The US Federal Production Tax Credits and accelerated depreciation benefits (MACRS) will be retained by the Project entity. Please note, for the purposes of this proposal, the energy prices shown in Table 1 of Section 5 assume that these tax credits and benefits are available when the Project achieves

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	commercial operation.
Liquidated Damages and Remedies	The Project expects to enter into a long-term power purchase agreement with market based terms regarding liquidated damages and remedies. See discussion in Section 2 – Financial Structure.
Replacement Power or Capacity	No provisions for replacement power and capacity have been made in the economic assumptions.
Land Purchase or Lease Assumptions	The are no costs assumed for land acquisition nor land lease payments. The Project entity would expect to enter into a nominal value long-term land lease agreement with GRU for a parcel of land at or adjacent to the Deerhaven Power Generating Station. The initial lease term would be at least as long as the term of the PPA and include options for extension.
Number of Employees	Estimated number of equivalent full-time employees is 18-20.

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SECTION 5 – PRODUCTION COST INFORMATION

The following information is considered by Envortus to be confidential information and are submitted under separate cover.

- Table 1 – Illustrative All-In Production Cost (\$/MWh)
- Table 2 – Illustrative Variable Costs for Economic Dispatch (\$/MWh)

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SECTION 6: RESPONDENT INFORMATION

6.a: Respondent's Qualifications in the Provision of Energy Supply:

Envortus is a developer of waste to energy projects. The Company also provides asset management services to the plants that it develops. A special purpose project entity will be formed to develop the Project, enter into the contracts with the Project contractors and manage the ongoing operations of the plant once it is constructed. Envortus has brought and intends to bring additional partners into the project entity as appropriate, for the benefit of the Project.

The officers of Envortus are: Tom Carbone, CEO; Paul Cox, President; and Matthew Karcher, Director of Finance.

Tom Carbone, CEO and member of the Board of Directors - Dallas: Tom has substantial business and corporate development experience, gained in his 24 years in the renewable and distributed power generation sectors, including his successful record of developing and managing profitable energy sector companies with annual revenues in excess of \$500 million to \$1 billion. He was the former CEO of Vestas Americas – a division of Vestas Wind Systems A/S, the world's largest wind turbine manufacturer. Prior to Vestas, Tom was President of Wartsila North America, Inc., the world's leading provider of marine power systems and power plants based on combustion engine technology. He has substantial hands-on experience in leading organizations involved in the design, development, installation and service of distributed generation and renewable energy solutions in the 10-200 MW power range. Tom is a greater than 10% owner of Envortus.

Paul Cox, Founder, President and member of the Board of Directors - Vancouver: Paul holds board of director seats of several companies in the renewable energy and software industries and brings to the Company a diverse and successful background as an entrepreneur with experience in finance, real estate and project development, startup, rapid growth, corporate and public company leadership and management, transaction structuring, business, technology and product development and specific experience in the development of renewable energy entities and businesses. Paul is a greater than 10% owner of Envortus.

Matthew Karcher, Director of Finance - Dallas: Matt has extensive transactional and financial area experience in the renewable energy field, gained from his 10 years in the energy finance sector. Prior to joining Envortus, Matt was the founder of Deacon Harbor Financial, a financial and strategic advisory firm that provided services to developer of, and investors in, renewable energy projects. He has also held positions within the independent power divisions of El Paso Corporation and Entergy Corporation working on generation projects including gas turbines, wind turbines and biomass to energy.

CBWTE Project Team: The Envortus project management team has well over 100 years of experience in energy project development, engineering, construction and financing. Most of the team members have worked together in previous jobs and on successful project developments. The development of this project will be led by Tom

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Carbone with input and specific area expertise in design, construction, permitting and operational management and maintenance from the area team leaders listed below:

Tom Carbone - GRU Project Team Leader (bio provided above).

Paul Cox - Project Management Support (bio provided above).

Matthew Karcher - Project Finance (bio provided above).

Daniel Phipps - Project Construction Team Leader – Project engineering, project specification and design. Dan comes to Envortus with over 25 years of hands-on construction and engineering experience. Prior to Envortus, he worked as risk and contracts manager at Barnhart Inc., one of the largest erectors/installers of utility grade wind turbines in North America. Before Barnhart, Dan was a senior project/application engineer at Vestas Wind Systems where he contributed to the design and construction of wind power plants.

Bruce Drucker - Project Development Team Leader: Since 1984, Bruce has developed, structured and financed cogeneration and independent power projects on several continents, including renewable energy projects. His expertise includes structuring, drafting and negotiating project contracts and loan agreements. As senior vice president at ORFA Corporation of America, he was responsible for the development of municipal solid waste disposal projects utilizing a fully automated recycling technology and arranging bond financing for the projects. Bruce also served as general counsel of ORFA.

Mark Sehnert - Project Development Team Member - project development, permitting and approvals: During the past 30 years, Mark has been responsible for project feasibility and preliminary design, environmental and regulatory permitting, contract negotiations and construction and operations management for numerous power generation projects including cogeneration, IPP and waste recovery systems. He has held senior positions at Sunlaw Energy Corporation (of which he was a founder), PDC Group International, Inc. and ANCO Engineers Inc. where he was responsible for technical, operations, regulatory and financing aspects of project development for cogeneration and independent power projects

Ken Horn, P.E. – Owner’s engineer and EPC management services. Ken is a senior mechanical engineer at Patch Services Inc. He holds a P.E. license and maintains his professional affiliations with the Association of Energy Engineers, Cogeneration & Competitive Power Institute, ASME and the Air and Waste Management Association. Ken has managed several multi-disciplined work forces engaged in numerous and diversified power generation projects including coal, CCGT, gas/oil, geothermal and biomass. As an example, he managed \$300 million capital program to reduce NOx on approximately 6,000 MWe of power generation fossil fired boilers.

Bruno Ferraro, C.E.P., Q.E.P. – Environmental permitting and compliance. Bruno is president of Grove Scientific & Engineering Inc. has been identified and proposed as the Project’s local permitting consultant. He has been an environmental consultant in Florida since 1979. He has a broad base of experience in the field of environmental sciences and engineering including air pollution permitting and source testing, expert witness for water quality, air pollution and indoor environmental quality projects. Bruno was the former President of the Florida Society of Environmental Analysts.

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6.b: Respondent's Qualifications and Experience with Technology

Over the years, several of the members of this team have worked with each other in different capacities and have successfully developed, sold, constructed, financed and operated well over 4,000 MW of both traditional fossil-based and renewable energy projects.

Envortus Experience: A sample list of relevant power project experience for members of Envortus is found in the table below:

Project	Technology	Location	Capacity	Phase of Project	Comp. Date	Envortus Members
Haripur Barge Mounted Power Plant	Dual-Fuel (Oil-Gas) Combustion Engines	Dhaka, Bangladesh	110 MW	Project Development, OPIC Finance, Construction, Operation	COD 1999	T. Carbone B. Drucker M. Sehnert
Elbow Creek Wind Power	Siemens Wind Turbines	West Texas	108 MW	Project Development And Sale of Rights	Under Construction	T. Carbone M. Karcher
No Deer Run Wind Power	T.B.D. Wind Turbines	West Texas	> 300 MW	Project Development And Sale of Rights	Sale Pending	T. Carbone B. Drucker M. Sehnert
Centennial Wind Power	Vestas Wind Turbines	Regina, Saskatchewan	150 MW	Sale and EPC Construction of Wind Power Project	COD Mar. 2006	T. Carbone D. Phipps
Maple Ridge Wind Power	Vestas Wind Turbines	Lowville NY	190 MW	Sale and EPC Construction of Wind Power Project	COD since Jan. 2006	T. Carbone D. Phipps
Great Plains Wind Power	Suzlon Wind Turbines	Texas Panhandle	4 x 80 MW	Project Development And Sale of Rights	Under Construction	B. Drucker M. Sehnert
Syracuse University Cogen Project	GE Gas Tubines	Syracuse NY	2 x 40 MW	Financing – Construction Loan, Debt and Equity Arrangements	COD 1991	B. Drucker M. Sehnert

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Fauji Kabirwala Power Project	Gas Turbines	Pakistan	151 MW	Project Development and Finance	COD 1997	B. Drucker M. Sehnert
Madera Biomass Project	CFB Boiler Biomass (agricultural waste)	California	24 MW	Project administration, monitoring, and investment management	COD 2001	M. Karcher

Envortus References and Contacts - for sample list of Envortus projects shown above:

110 MW Haripur Barge-Mounted Power Plant:

Nomi Ahmad

Wärtsilä Corporation
 John Stenbergin ranta 2
 P.O. Box 196
 00531 Helsinki

Tel: +358-10-709-5429
 Fax: +358-10-709-5710
 Email: nomi.ahmad@wartsila.com

James C. Polan

Manager, Project Finance
 Overseas Private Investment Corp.
 1100 New York Avenue, NW
 Washington DC 20527

Tel: +1-202-336-8512
 Fax: +1-202-218-0280
 Email: jpola@opic.gov

105 MW Elbow Creek and 300 MW No Deer Run Wind Power Projects:

David Spalding

Wind Plus, Inc.
 7701 Las Colinas Ridge
 Irving, TX 75063

Tel: +1-817-354-3988
 Email: dspalding@windplusinc.com

150 MW Centennial and 190 MW Maple Ridge Wind Power Projects:

Soren Madsen

Vice President
 Vestas Americas Wind Systems
 1881 S.W. Naito Parkway
 Portland, OR

Tel: +1-503-327-2000
 Fax: +1 503-327-2001

Email: som@vestas.com

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USRG Experience: Envortus will secure the equity financing required for the Project from USRG Power & Biofuels Fund II, L.P., a Delaware limited partnership (“USRG”). USRG is a renewable energy fund, managed by a team of seasoned professionals, which was formed to make a diversified portfolio of investments in both renewable energy and clean fuels projects and companies. USRG is focused principally on: (i) renewable power generation, including biomass, landfill methane, solar thermal, geothermal and wind projects; and (ii) clean fuels, including ethanol and biodiesel. In addition, although to a lesser extent, USRG may also consider select investments in renewable power and clean fuel infrastructure opportunities, as well as investments in later-stage, enabling technology projects, with highly engineered paths to commercialization, focused on increasing the efficiency and effectiveness of an existing renewable energy production process.

USRG is managed by a team of very experienced operating and investment professionals, including Jim McDermott, Lee Bailey, Thomas King, Jonathan Koch and Anthony Lent (collectively, the “Partners”). Combined, the Partners have spent over 70 percent of their careers in the energy industry, bringing 68 years of energy-related experience to USRG in private equity investing, power development and finance, renewable energy technology and business development. The Partners have successfully managed another renewable energy fund which has invested substantially all of its committed capital and successfully exited a number of the investments it made.

USRG also benefits from the experience of its other investment professionals and consultants who have extensive experience in energy-related project development, project finance and operations. USRG has been very active in reviewing and evaluating various technologies for biomass projects, including the technology being offered for the Project.

USRG has reviewed the terms of the RFP and the proposal being submitted by Envortus and has performed a preliminary due diligence review of the Project, including the pro forma cash flows. Based on such review, USRG has committed to providing all of the equity required for the Project, subject to Envortus being selected by GRU and entering into a power purchase agreement which meets the standard requirements for the financing of a power project like the Project.

A list of the investments made by USRG and the prior renewable energy fund managed by the Partners is set forth below, which demonstrates the wide range of experience in the renewable energy and clean fuel sectors of the Partners and other energy professionals at USRG:

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Project	Technology	Location	Capacity	Phase of Project	Comp. Date	USRG Fund Role
Toyon Landfill Gas Conversion, LLC	Landfill methane	Los, Angeles, CA	3.5 MW	Operating	Sold Q1 2007	Improved operating performance and sold this asset
Nelson Gardens Landfill Power, LLC	Landfill methane	San Antonio, TX	3.2 MW	Final Construction	COD Q2 2007	Funded and oversaw development and construction
ASAliiances Biofuels, LLC	Ethanol	OH, NE, IN	300 MM gallons per year	Operating and Construction	Sold Q3 2007	Funded and served on Board
Houston Biodiesel, LLC	Biodiesel	Seabrook, TX	35 MM gallons per year	Construction	COD Q4 2007	Funding and overseeing development and construction
Bottlerock Power, LLC	Geothermal	Lake County, CA	55 MW	Startup and Testing	COD 2007	Leading the re-development and re-commissioning
Niagara Generating Facility	Biomass	Niagara Falls, NY	53 MW	Operating	Fuel Conv. COD Q4 2007	Leading the fuel conversion from coal to biomass and tire-derived fuel
Tracy Biomass Generation Facility	Biomass	Tracy, CA	21 MW	Operating	Acquired Jan 2007	100% owner of this operating asset
Ludlow Biomass Project	Biomass	Ludlow, VT	25 MW	Develop/ Construction	COD 2010	Funding and overseeing development and construction
Penrose Landfill Gas Conversion, LLC	Landfill methane	Los Angeles, CA	6.5 MW	Operating	Sold Q1 2007	Improved operating performance and sold this asset

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The following details the experience of the USRG professionals that will be principally involved in the GRU Biomass Project:

Lee Bailey, Partner – Santa Monica: Lee Bailey is a Partner and co-founder of USRG based in Santa Monica. Prior to joining USRG full time in 2006, Mr. Bailey was a partner with Rustic Canyon Partners where he focused on investing in energy based companies. Mr. Bailey brings more than 15 years of operating experience in technology-based companies, management and government service, primarily in the areas of energy and information technology. Mr. Bailey began his career at Energy Conversion Devices, a publicly traded energy development company where he served in a variety of capacities, including Vice President and General Counsel. Following this tenure, Mr. Bailey served as the White House Director for International Science and Technology Commercialization Programs from 1995 to 1997, representing the U.S. government in promoting privatization and commercialization of technology. Mr. Bailey received a law degree from Washington University School of Law, an MS from Northwestern University and a BA from St. Lawrence University.

Scott Gardner, Principal – Santa Monica: Prior to joining USRG, Scott. Gardner was a VP with TRC Companies, Inc., advising major energy companies on new business opportunities. Prior to TRC, he served as VP of Business Development for AES Corporation's North America West group. In his 12-year career with AES, Mr. Gardner held various roles in business development, project development and business restructuring. Over his career, he has worked on renewable energy projects in biomass, solar thermal, wind, geothermal, MSW gasification, landfill gas and hydro. Mr. Gardner holds an MBA in Finance from Kellogg Graduate School of Management at Northwestern University and a BA with honors in engineering and environmental studies from Dartmouth College.

Joshua Haacker, Principal – Santa Monica: Prior to joining USRG, Joshua Haacker served as Manager of Markets and Business Development for AES' North America West group where he led and supported various development, financing and market activities within the group's portfolio. Mr. Haacker's development experience with AES covered both greenfield development and acquisitions across numerous types of power and alternative fuel projects including biomass, run of river hydro, ethanol, natural gas, coal and petroleum coke. Prior to AES, he served as a consultant for the Rocky Mountain Institute where his work included drafting the biofuels chapters of the recently published book *Winning the Oil Endgame*, and advising utilities on Integrated Resource Planning and Demand Response programs. Previously, he worked for a renewable energy developer in the western US on early-stage geothermal and biomass power projects. In addition to his experience in the energy sector, Mr. Haacker spent 3 years working in various Operations Management roles with Procter & Gamble. Mr. Haacker holds an MBA from Harvard Business School and a BS in Chemical Engineering from Rensselaer Polytechnic Institute where he graduated *summa cum laude*.

Edward May, Associate – Santa Monica: Edward May joined USRG out of graduate school in 2005. Prior to joining USRG, Mr. May was enrolled at Duke University where he received an MBA and a Master of Environmental Management (Energy and Environment Certificate). During his time at Duke, Mr. May interned with General Electric in its Renewable Energy Leadership Program, Carolina Green Energy (local renewable energy developer) and Self-Help Ventures Fund (local sustainable venture fund). Prior to Duke, Mr. May was an

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Investment Banking Associate at Lehman Brothers, Inc. in New York, where he completed complex structured financings, debt and equity placements as well as M&A advisory for major teams and leagues. Mr. May also holds a BA from the University of North Carolina at Chapel Hill in Political Science with a minor in Biology.

USRG References and Contacts - for sample list of USRG projects shown above:

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Patch Service Inc. Experience: A list of customer and project references for Patch Services Inc. is attached as Exhibit 5 to this response.

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3.c: Respondent's Financial Capability

Envortus was formed in 2006. It has received funding from capital provided by a capital management entity. In addition to such funding, Envortus has developed equity through the work and contributions of a very capable group of founders, management and project development team members.

Envortus will source the equity financing required for the Project from USRG. As discussed above, USRG is a renewable energy fund formed to invest in, among other things, renewable energy projects. USRG has reviewed the terms of the RFP and the proposal being submitted by Envortus and has performed a preliminary due diligence review of the Project, including the pro forma cash flows. Based on such review, USRG has committed to providing all of the equity required for the Project, subject to Envortus being selected by GRU and entering into a power purchase agreement which meets the standard requirements for the financing of a power project like the Project.

The limited partners in USRG have committed \$475 million in capital to USRG, such capital to be funded as required for investments. While USRG has made a number of investments since its formation, a substantial portion of the committed capital remains available for investment and there is more than enough capital available to fund the Project. At the present time, it is assumed that USRG will invest the equity required for the Project and the balance of the funding will be secured from a third party lender.

As discussed, Envortus intends to establish a special purpose entity ("SPE"), which will house all of the Project's contracts, operating agreements, permits, etc. The Company anticipates financing will be arranged at the project level, meaning equity investment(s) and debt financing in the Project will be made directly into the newly created SPE, rather than into Envortus.

In terms of third party financing Envortus will seek to secure non-recourse project debt. Both Envortus and USRG have had preliminary discussions with multiple commercial banks that are very active in the renewable energy project sector. The potential lenders contacted expressed an interest in pursuing a potential financing if the Project meets customary financial and credit requirements such as a long-term Power Purchase Agreement (e.g., 20 years) with a credit-worthy counterparty, demonstration of financial benchmarks (e.g., meeting debt service coverage ratios), long-term contract with a qualified project operator, etc. If the Project is successful in securing a PPA, Envortus and USRG will engage in more substantive discussions with debt providers, starting with those already contacted.

As the majority of Project assets qualify for accelerated depreciation and the Project generates Federal production tax credits ("PTC"), a significant part of the Project's return is based on utilization of tax benefits (accelerated depreciation and PTCs together known as "Tax Benefits"). As the Company does not have the required amount of tax liability to efficiently use the Tax Benefits, nor is USRG able to utilize the Tax Benefits, Envortus intends to also secure equity financing from a third party tax-based investor

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(the “Tax Investor”). In projects with Tax Benefits, the Tax Investor is viewed similarly to a lender. The Tax Investor contributes part of the project equity in exchange for the Tax benefits and cash allocations. While this type of equity market for biomass is relatively small by comparison, the tax equity market is very mature in the U.S. wind financing sector, with an estimated \$3.1 billion invested in 2006.¹ Both USRG and the members of Envortus have significant experience dealing with tax-based equity investors in the renewable energy sector.

If possible, the Company will look to secure project debt and tax-based equity from the same entity. USRG has engaged in preliminary discussions with a potential debt provider that also expressed interest in providing the tax equity. Securing financing from the same counterparty will lower transaction costs (i.e., one party has lower due diligence costs) and require less time to close. This is just one financing optimization technique to which the Company is open. Envortus will maintain flexibility in its financing strategy to ensure it can secure the lowest cost capital for the Project.

Financial Statements: The requested Envortus Company financial statements are shown as Exhibit 4 of the Attachments. USRG’s financial statements may be provided separately upon request.

Financed Renewable Energy Projects Experience: A number of the members of the Envortus team led a due diligence and project development effort for a 110 MW, barge-mounted, dual fuel (oil and natural gas) reciprocating engine power plant project located in Dhaka, Bangladesh. The team had lead responsibility for performing the due diligence on this project, focusing on the ability to secure financing since it was being financed with 100 percent equity and debt financing was not expected until the construction of the project was complete.

Once a decision to pursue the project was made, the team’s role was expanded to (i) assist the three project equity sponsors and the project company to conclude the ongoing development work and finalize the placement of a recourse bridge loan from a commercial bank to fund the construction and (ii) negotiate, document and fund a limited recourse permanent financing for the Project pursuant to a financing commitment of Overseas Private Investment Corporation (“OPIC”).

The specific development tasks for which the team had the primary responsibility included: (i) negotiate with the Government of Bangladesh to finalize all of the amendments required by OPIC to the Implementation Agreement and Guarantee; (ii) negotiate with the Bangladesh Power Development Board to finalize all of the amendments required by OPIC to the Power Purchase Agreement and to secure an easement agreement; (iii) negotiate and draft a fuel supply and storage agreement with

¹ The Tax Equity Market” in Chadbourne & Parke, LLP’s April 2007 *Project Finance Newswire*, available online at <http://www.chadbourne.com>

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a local fuel supplier and an international back-up supplier in connection with the supply of liquid fuel to the project; (iv) assist the equity sponsors in finalizing the ownership structure for the project company and in the drafting and negotiation of the Shareholders Agreement; (v) negotiate with the bridge lenders and their counsel to close the bridge construction financing for the project; (vi) negotiate the loan documents with OPIC; and (vii) take lead responsibility to satisfy all the conditions precedent to the close of funding of the OPIC loan.

Bruce Drucker and Mark Sehnert have worked together for more than 20 years and have been engaged by a number of power project sponsors, including El Paso Energy, Covanta Energy and USRG to complete the development and close the financing of power projects domestically and internationally. A typical engagement includes finalizing key agreements or securing amendments thereto, preparing and negotiating engineering, procurement and construction contracts and operations and maintenance agreements, managing the efforts of other consultants in securing permits and insurance, assisting in finalizing the financing agreements and taking the lead in satisfying all of the conditions precedent to the closing of the financing. Projects on which Messrs. Drucker and Sehnert have played such a significant role include: (i) four 80 MW wind energy projects in the Texas Panhandle (acted as owner and developer until the projects were sold to wind energy companies); (ii) a 133 MW power plant and 10 million gallon desalination facility in Ras al Khaimah, United Arab Emirates (acted as lead developer and secured a 100 percent underwriting commitment to finance the project from a single lender); (iii) assisted Covanta Energy in the sale of several landfill gas and wood waste projects in California and in developing a landfill gas project for the successful bid pursuant to a RFP in San Diego, California; (iv) assisted Entergy in closing the financing for a 425 MW gas fired project in Louisiana; (v) lead developers for the 110 MW barge mounted power project described above in Bangladesh; (vi) served as the lead developer and arranged and closed the financing for a 151 MW power project in Kabirwala, Pakistan (the project utilized low-Btu gas in combination with pipeline quality gas); (vii) completed the development and closed the financing for an 80 MW cogeneration facility in Syracuse, New York which included a 15-year pre-purchased gas project; and (viii) completed the development and closed the financing for two 100 MW cogeneration facilities in Florida, one in Lake County and one in Pasco County, each supplying steam to citrus processing facilities. Messrs. Drucker and Sehnert are currently working for USRG (a renewable energy fund described above) in assisting USRG in evaluating different types of renewable energy investments.

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EXHIBIT 1

US Renewables Group Bid-Equity Support Letter

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EXHIBIT 2**Preliminary Major Equipment List****ENVORTUS - BIOMASS PROJECT PROPOSAL to JEA****PRELIMINARY - MAJOR EQUIPMENT LIST**

EQUIPMENT NO	DESCRIPTION
RE-112	Magnetic Separator
PB-115	Pneumatic Blower-Fuel Silo Loading
PB-116	Pneumatic Conveyor Rotary Feeder
PV-150	Fuel Silos
PV-200	Fuel Splitter Assembly & Metering Bins
GF-220	Gasifier
AU-231	Ash Auger Cooling Skid
BR-301	Boilers
BBD-304	Boiler Blowdown Holding Vessel
CH-306	Boiler chemical feed system
CY-310A	Cyclone Separators
AU-310C	Ash Augers
BE-311	Flue Gas Breeching
BL-330	Induced Draft Fans
ESP-335	Electrostatic Precipitator, Blowers, Air Locks
ST-340	Stack
AC-410	Condenser - Water Cooled
CO-420	Condensate Skid & Pumps
CO-422	Condensate Tank
DA-430	Deaerator Skid
PU-431A	Boiler Feedwater Pumps
DA-432	Deaerator Tank
TU-450	Turbine-Generator
TU-451	Turbine Lube Oil Fin-Fan Cooler Skid
DI-510	Demineralizer System
DI-511	Demineralized Water Tank
IA-520	Instrument Air Compressor/Dryer
PU-530	Oil/Water Separator
AS-600	Ash Container System
E-501	Generator Step-Up Transformer
E-502	Generator Breaker
E-503	Auxiliary Transformer

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EXHIBIT 3

Indicative Project Layout

(attached)

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EXHIBIT 4

Envortus Financial Statements (Un-audited)

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EXHIBIT 5

Patch Services Inc. Project References

(attached)



**PATCH SERVICES
MAJOR PROJECTS SUMMARY**

PLANT OWNER	LOCATION	PROJECT	PRIME CONTRACTOR	VALUE	DELIVERY METHOD	YEAR COMPLETED
Mesquite Fuels & Ag	Texas	Biomass Power Plant	Texas	TBD	EPCM	On-Going
APS/Oxy	Arizona	Digester Gas Clean Up	Titan	\$ 900k	EP	On-Going
Pacific Union College	N. California	Feasibility Study	Trane	\$ 200k	EP	2006
Pacific Union College	N. California	Gas Turbine Combined Heat and Power	Titan	\$ 1,600k	EPCM	2007
Trans Bay Cable	N. California	400MW DC Transmission Line Licensing Support	Siemens	\$ 8000k	E	On-Going
ITEC	California	Plastics Recycling Plant	Owner	\$ 650k	EPCM	On-Going
Ripon Cogeneration	Texas	LM600 Repower/Financial Analysis/Preliminary Engr.	Countryside	\$ 1,250k	EP	On-Going
San Gabriel Cogeneration	California	LM6000 Repower/Maintain Plant's QF Status	Countryside	\$ 1,200k	EP	On-Going
Crimson Resources	N. California	20 MW Cogeneration Facility	Crimson	\$ 1,500k	EPPM	2006
Oil tanking	S. California	Bulk Crude Terminal-Licensing	PS	\$ 1,000k	E	2006
Oil tanking	N. California	Bulk Crude Terminal-Development	PS	\$ 6,500k	EPPM	On-Going

P-Permitting
E-Engineering
P-Procurement
C-Construction
PM-Project Management
CM-Construction Management



**PATCH SERVICES
MAJOR PROJECTS SUMMARY**

PLANT OWNER	LOCATION	PROJECT	PRIME CONTRACTOR	VALUE	DELIVERY METHOD	YEAR COMPLETED
EDC	Venezuela	220MW Simple Cycle	PS	Confidential	E	2005
AES	Washington/ Lima, Peru	2-W501-D Simple Cycle	AES	\$ 2,300k	EP	2005
CES	California	500KW CEC/DOE Pilot Project Advanced Technology	CES	\$ 500k	EP	2005
Ameramex	Mexico	220MW Combined Cycle	PS	\$ 7,500k	EPCM	On Hold
Puget Sound Electric	Washington	100 MW Gas Turbines with SCR and CO catalyst	PSE	\$ 15,000k	EPC/CM	2005
Calpine	California	CEC Compliance 500 MW Cogeneration Facility	Calpine	\$ 500k	E	2004
AES	California	500MW Cogen Facilities Engineering & Permit Pkgs	AES	Confidential	E	2004
Port Authority	Jamaica	Fuel Storage & Distribution Facility	PAOJ	\$ 3,000k	EPPM	2004
Temple Inland	Texas	Steam Turbine Installation	Temple Inland	\$ 900k	EPCM	2004
Calpine/ City of Pittsburg	California	Access Road, Pedestrian Bridge, City Engineer Approvals	Northern	\$ 875k	ECM	2002
P-Permitting E-Engineering P-Procurement		C-Construction PM-Project Management CM-Construction Management				