



COMPANY PROFILE

B-Sustain Energy Projects Pvt. Ltd., is founded by enthusiastic young first generation entrepreneurs with the vision of creating “An Energy Independent World”. Through B-Sustain’s strong mission of providing customized and sustainable energy solutions for converting organic wastes into heat and power generation plants to reduce fossil fuel dependency. B-Sustain attended over thousands of satisfied customers with much recognition from media in a very short span.

B-Sustain is now a single point solution for all your energy needs. Based on Client’s requirements and economic viability, B-Sustain offers the most practical alternatives to cut down the costs, increase the client’s profit and lead to sustainable production. B-sustain a pioneer in handling energy projects by taking up most challenging assignments based on customer needs.

B-Sustain develop bioenergy projects and technologies that contribute optimally towards a sustainable society. Next to the development and use of modern, reliable and efficient bioenergy technologies, we pay attention to the sustainable origin of the biomass feedstock. Only sustainable biomass, produced with the best possible carbon and fossil energy savings are accepted.

VISION

Creating An Energy Independent World.

MISSION

Providing customized and sustainable energy solutions for converting organic wastes into heat and power generation plants to reduce fossil fuel dependency.

VALUES

- Customer delight
- High Quality Service
- Attending to customers queries round the clock

BASIC INFORMATION

NAME OF THE COMPANY : **B-Sustain Energy Projects Private Limited.,**

REGD. CORP OFFICE : No: 7/10, Ambalavannar street, 100ft road,
Arumbakkam, Chennai 600 106.

MANUFACTURING UNIT : No: 18A, Bharani street, Bharathi Nagar,
Tharamani, Chennai 600 113.

BUSINESS TYPE : * Manufacturer
* Supplier
* Trader

ANNUAL TURNOVER : US\$ 100 K Approx.

TIN NO. : 33431465913

CST NO. : 1066655 DT: 04-06-2012

SERVICE TAX REGN : AAECB5971ASD001

CONTACT NUMBER : 044-24753338, 9176680005, 9176650001

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sales@bsustain.in
info@bsustain.in

WEBSITE : www.bsustain.in

EXCELLENCE

B-Sustain excels in catering to the upcoming specifications of clients more than what they expect. B-Sustain ensures to provide better quality products to our clients on time. Moreover, our complete range passes through numerous quality checks before they are finally packed. Besides, query solving and on time delivery of the product, technical support team is available to attend the customers round the clock 24*7. B-Sustain takes care of volunteer service calls and reliability checks at regular time intervals to make sure that the product serves the customer efficiently and endlessly.

INFRASTRUCTURAL FACILITIES

B-Sustain has established sound and state-of-the-art infrastructural set-up, which allow us in executing all business operations systematically. Furthermore, B-Sustain's infrastructure comprises of highly spacious warehouse, where our bulk consignments are safely stored for longer duration. B-Sustain's infrastructure helps to undertake and deliver bulk orders of customers within promised time frame.

QUALITY STANDARDS

Quality is the strong point over which, B-Sustain emphasis since the day one of our establishment. To ensure that the products offered by us are in conformation with the industrial standards, B-Sustain have adopted various quality guiding principles as well as measures suggested by the industry. Furthermore, our uncompromising attitude towards quality has helped us in acquiring huge clientele support based across the world.

CUSTOMER DELIGHT

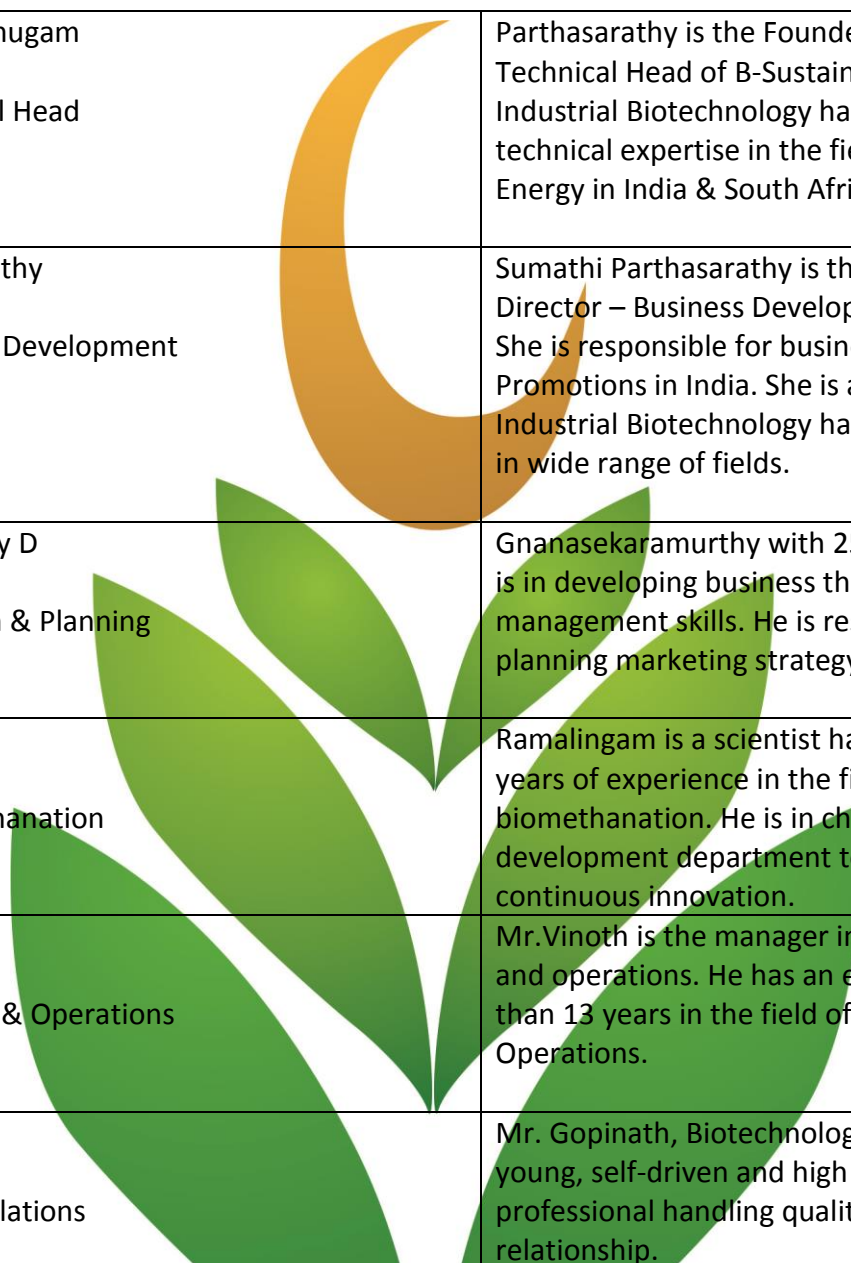
B-Sustain is a quality centric organization assuring to meet the specific demands of clients by providing desired range of products at reasonable and affordable prices. Before we supply the products, we check their excellence on various parameters to assure their conformation to meet the industrial standards. On time delivery of consignment, ethical business practices and cost effective solutions have enabled us in garnering the utmost clientele support.

VENDOR BASE

We are able to efficiently address the diverse demands and requirements of our valued clients, owing to the long lasting relationship with our vendors.



TECHNICAL & MANAGEMENT TEAM



<p>Parthasarathy Arumugam</p> <p>Director – Technical Head</p>	<p>Parthasarathy is the Founder & Director – Technical Head of B-Sustain. He is a graduate in Industrial Biotechnology having 7+ years of technical expertise in the field of Renewable Energy in India & South Africa.</p>
<p>Sumathi Parthasarathy</p> <p>Director – Business Development</p>	<p>Sumathi Parthasarathy is the Co-Founder and Director – Business Development of B-Sustain. She is responsible for business development & Promotions in India. She is a graduate in Industrial Biotechnology having vast experience in wide range of fields.</p>
<p>Gnanasekaramurthy D</p> <p>Consultant – Admin & Planning</p>	<p>Gnanasekaramurthy with 25 years of experience is in developing business through his ideas and management skills. He is responsible for planning marketing strategy.</p>
<p>Ramalingam A</p> <p>Scientist – Bio Methanation</p>	<p>Ramalingam is a scientist having more than 8 years of experience in the field of Biogas and biomethanation. He is in charge of research and development department to promote continuous innovation.</p>
<p>Vinoth Karthik</p> <p>Manager – Finance & Operations</p>	<p>Mr.Vinoth is the manager in charge for finance and operations. He has an expertise of more than 13 years in the field of accounts & Operations.</p>
<p>Gopinath D</p> <p>Head - Customer relations</p>	<p>Mr. Gopinath, Biotechnology Engineer, is a young, self-driven and high performing professional handling quality customer relationship.</p>

OUR PRODUCTS & SERVICES

By means of best –in-class high quality passionate service and robust experience, B-Sustain has attended over thousands of happy customers with much recognition from media in a very short span in the field of renewable and green energy. B-Sustain specializes in the design and manufacturing of Biogas plants, Biogas upgrading, Biogas accessories, Biomass Gasifiers, Gas engines and Consultancy services for a wide range of non-conventional energy requirements. Being a quality conscious organization, B-Sustain develop bioenergy projects and technologies that contribute optimally towards a sustainable society.

I. BIOGAS

B-Sustain offers extensive variety of biogas plants from domestic to industrial usage. B-Sustain’s Biogas team of qualified and experienced professionals comprised of Engineers, Biologists, Doctorates, Business management specialists and technocrats accompanies the client at every step of the project, starting from planning phase to construction down to the start-up of the biogas plant till its stabilization.

Biogas can be produced from sustainable raw material and organic waste like Food waste, Market vegetable waste, Animal dung, Poultry litter, Jatropha cake, Tapioca (Cassava) fiber waste, Tapioca industrial liquid waste, Sugar factory cane juice waste, Bagasse wash water, Fruit processing industrial waste, Corn processing industrial waste, Silkworm litter/rearing waste/spent slurry, Municipal sewage, Press mud, Water hyacinth etc., locally, reliably, simply and efficiently.

- Agricultural Biogas Plants
- Industrial Biogas Plants
- Domestic Biogas Plants
- Biogas Storage Holders

II. BIOGAS UPGRADING

B-Sustain’s advanced technology to upgrade raw biogas to purified bio-methane which increases the fuel efficiency above 95% using the best-in-class machineries. Upgrading of biogas to natural gas quality is, from the efficiency and economical aspects, a vital pre-requisite for its optimum utilization.

B-Sustain is one of the leading turnkey service providers for bio-methane bottling units. B-Sustain's efficient and reliable biogas upgrading system is a proven technology which involves the following units. They are safe with the advantage of fuel integration.

- Desulphurization unit
- Biogas refrigerant dryer
- Biogas blowers/boosters
- Low pressure compressor
- Vacuum Pressure Swing Adsorption (VPSA)

III. BIOGAS ACCESSORIES

Having in mind the diverse requirements of our clients B-Sustain is engaged in trading and supplying of a comprehensive range of Biogas Accessories. These are produced using latest technology and optimum quality of material which are sourced from our valuable vendors. B-Sustain chooses paramount vendors and products primarily based on the A Grade quality and the best rate in market. These Biogas Accessories are available in various size and dimensions as per the requirements of our clients.

- ♦ Central Mixer
- ♦ Lateral Agitator
- ♦ Solid-Liquid Separator
- ♦ Submersible slurry pump
- ♦ Immersible slurry pump
- ♦ Biogas Analyser
- ♦ Methane Gas leak detector
- ♦ Biogas flow meter
- ♦ Biogas Stove
- ♦ Food Waste Crusher



IV. GAS ENGINES

B-Sustain gas engines are designed to operate with a wide range of fuels. The use of distinctive residuals helps to protect the environment at the same time that avoids the harmful gases to the atmosphere. Engines and generation groups involving use of energy at the highest level, keeping the emission levels meet the most accurate standards. Because of the ability for low energy use and emissions, our engines provide an option for generation committed to save the Environment. B-Sustain gas engines can be operated with different gases such as

- Natural gas / Biogas
- Producer gas
- Other gases
 - ◆ Syngas
 - ◆ Mine gas
 - ◆ Sewage gas
 - ◆ Coke gas
 - ◆ Landfill gas
 - ◆ Liquefied petroleum gas

V. BIOMASS GASIFIER

B-Sustain offers turnkey solutions for biomass power, heat and CHP generation. B-Sustain provides gasification plants based on proven, serially manufactured equipment, as well as comprehensive technical services. The conversion of waste biomass into energy via gasification is an increasingly popular and mature technology. B-Sustain gasifiers operate on varying range of fuels.

- ◆ Firewood
- ◆ Wood waste in the form of chips
- ◆ Biomass Briquettes
- ◆ Agricultural waste including Cotton stalks, Coconut fronds/husk, Cashew nut shells, etc.,
- ◆ Rice, groundnut and soybean husk
- ◆ Saw dust
- ◆ Sunflower hulls
- ◆ Corn cob
- ◆ Mustard stalks

VI. CONSULTANCY SERVICES

B-Sustain offers a broad service and support portfolio. Our services range from general consultancy and preliminary studies to the construction of entire project and technical support on their operation followed by regular service follow up. Our services are tailored to the specific needs of the customer, taking into account in-house staff skills and customer cost structures. We believe in creating true partnership, driven by customer imperatives.

We offer you:

- Project site selection
- Feasibility study
- Planning and design
- Project management
- Vendor selection for machineries
- Inspection & Repairs
- Stand-by-support
- Maintenance contracts
- Full-Service solutions
- Advice on & recommendations for feedstock
- Best-practice plant operation and optimization

Our extensive experience can help you avoid mistakes and unpleasant surprises. As an independent engineering company, we are not bound to any specific manufacturer or technology. Thus we are able to develop the optimum technical and economic solution for any specific client.

Drawing on our expertise with many comparable plants, we can then make specific recommendations on gas yield potential, biological issues and trace elements. We can also offer expert advice on alternative feedstock, and on plant modifications or expansions. Close collaboration with our service unit helps ensure maximum system uptime and consistent high performance.



APPLICATION

❖ BIOGAS

THERMAL APPLICATION: Cooking, Industrial Heating, Fossil Fuel (LPG, FO & Diesel) replacement.

POWER GENERATION: 100% biogas engines and Methane based (SoFc) Fuel cell for power generation

BIOGAS BOTTLING: Biogas enrichment/Purification, Low Pressure and High pressure bottling of Methane Gas for automobile application (LPG/CNG/FO/Diesel replacement)

❖ BIOMASS GASIFIERS

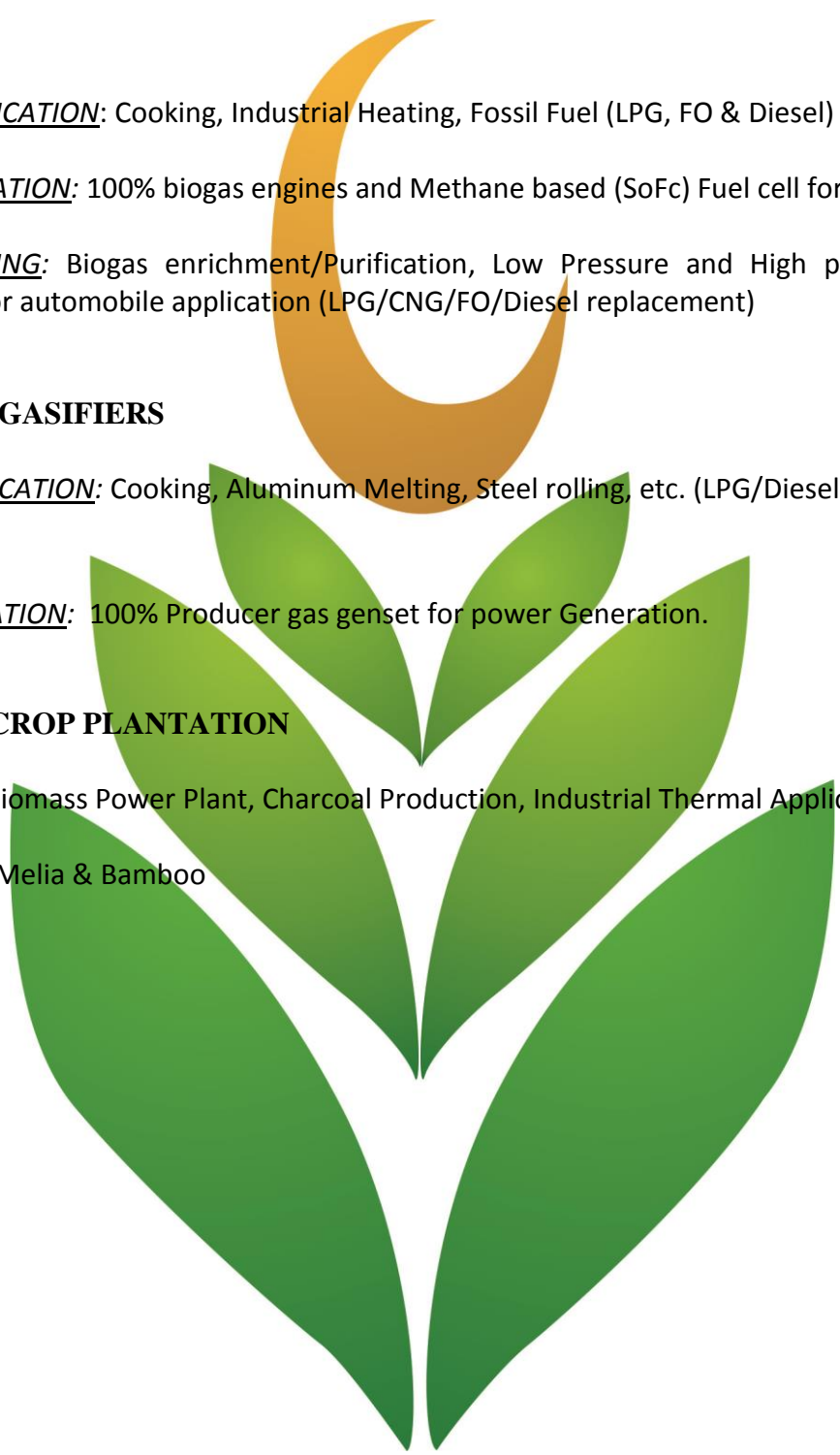
THERMAL APPLICATION: Cooking, Aluminum Melting, Steel rolling, etc. (LPG/Diesel./Furnace oil replacement)

POWER GENERATION: 100% Producer gas genset for power Generation.

❖ ENERGY CROP PLANTATION

APPLICATION: Biomass Power Plant, Charcoal Production, Industrial Thermal Application, etc.

ENERGY CROP: Melia & Bamboo



REFERENCES

Project	Location	End Use
Bio Economy Africa	Democratic Republic of Congo	Upgraded biogas used as transportation fuel
METEC (Metals & Engineering Corporation)	Ethiopia	Biogas Generation, Upgradation, Bottling and Power generation
Indian Army Headquarters – Andhra, Tamilnadu, Karnataka & Kerala	Island Grounds, Chennai	Canteen LPG replacement
Indian Oil Corporation	Teynampet, Chennai, India	Canteen LPG replacement
Rain Cements Ltd, Producers of Priya Cements	Hyderabad, Andhra Pradesh, India	Cooking gas for Industrial canteen
South Indian Railways	Perambur, Chennai	Cooking gas for Railway Canteen
Hindustan College of Engineering	Padur, Chennai	College canteen Cooking gas generation
Aruljothi Anna Alayam	Perambur, Chennai, India	Firewood replacement for ashram cooking
Connect Infra	Bangalore, Karnataka	Restaurant LPG replacement
Good Governance Guards	Besant Nagar, Chennai, India	Official thermal purpose
Saryam Engineering	Neelankarai, Chennai, India	LPG replacement
Tapovan Senior Citizens Foundation	Madampatti, Coimbatore, India	Cooking facility
A-Diet Express Hospitality Services Ltd	Sriperumbudur, Kanchipuram, India	Centralized Kitchen cooking gas
Ramesh Modern Rice Mill	Red Hills, Chennai, India	Cooking gas replacing firewood
Blue Bay Resorts	Vadanemmili, Mahabalipuram, India	Resort cooking
Fruit Shop on Greams Road	Tiruvanmiyur, Chennai	Domestic Cooking purpose
Shree Senthil Andavar Textiles	Coimbatore, India	Textile mill hostel kitchen gas
Sai Balaji Modern Rice Mill	Red Hills, Chennai, India	Cooking gas replacing firewood
Ponmalligai Hospitals	Alandur, Chennai	LPG Replacement
SBR Enterprises	Tirupur, India	Official thermal purpose

SNV Vedapadasala	Palakkad, Kerala, India	Ashram cooking
Opus Restaurant	Bangalore, India	Restaurant kitchen
Centre For Women's Development & Research (CWDR)	Panaiyur, Marakkanam, India.	Official thermal purpose
Kalkiraman Veda padasalai	Tanjore, India	Ashram cooking
Pratiks Enviro Fondation	Thiruverkadu, Chennai	Domestic Cooking
Pure & positive energy business solution	Chennai, India	LPG replacement

and many more...

