

GPS RENEWABLES AT A GLANCE

- Bioenergy technology & EPC firm, founded & built by 1st generation entrepreneurs from IIMs, IITs & NITs
- Strong corporate governance since inception with Independent Directors such as V Subramanian & Pratima Ram
- We have reinvented biogas technology for urban applications. Today GPS' BioUrja is the most successful captive biogas solution with ~ 100 installations and many global firsts
- We are now graduating towards <u>bioenergy project development</u> with the active support and mentorship of <u>Neev</u>

Shareholders



Technology & Service Partners









Marquee clients























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Foundation





... and many more

OUR MISSION

"To be the go-to solutioning partner for leading bioenergy project developers"

OUR VISION

"To be the world's leading bioenergy project developer"

OUR CLIMATE & TECH4GOOD JOURNEY STARTED MUCH BEFORE GPS ...



Cover Story Crime Civic Other Elections

Sameer Ranjan Bakshi / Updated: Sep 12, 2009, 00:17

HOME / BANGALORE / OTHER / NO WATER LOOS IN IIMB

No water loos in IIMB

Mainak Chakraborty Co-founder & CEO

Part of one of the only 2 FIRA robosoccer teams in India

Sreekrishna Sankar. Co-founder & COO



Part of the founding team of Free Software Foundation, India, under college senior, Arun M

Joined IBM Software Labs. Continued with pro-bono work for people with visual, cognitive and motor challenges in Trivandrum area with SPACE

Attempted starting up in 2008

with Sahil Barua and Ajith Pai,

now, CEO & COO, Delhivery

CLTIZEN MATTERS Blogs

MBA •

Engineering

Pre MBA

HOME > ENTREPRENEUR'S CORNER > Tools for bootstrappers

Tools for bootstrappers

May 22, 2008 by Anjana Vivek

Entrepreneurs are often strapped of cash. Sreekrishna Sankar, who has just completed his Post Graduate Diploma in Management at IIM Bangalore, has come up with a list of tools that entrepreneurs can use in such times; most of this is free and freely available for use. Incidentally, Sreekrishna, and a couple of his batchmates at IIMB, Ajith Pai and Sahil Barua, have floated a firm Catalyst Ventures, which worked with a few start ups. Thanks for sharing this info. Sreekrishna.

Drafted IIMB's sustainability roadmap in 2009, alongwith Prof Damodaran and Prof B Mahadevan

> retrofitting company in Sahu, now CEO, Nestaway

That's not all. The top B-school has drawn up a plan, according to which its campus which will switch to green - is expected to achieve sustainability by 2015. The institute, which embarked on its green march this year, plans to grow exotic plans species and

considerably reduce energy consumption.

CARBON CREDITS

Mainak Kumar Chakraborty, an IIMB student, said, "By introducing rain water harvesting and water recycling, we've been able to reduce water bills by 30 per cent compared with last year. In a couple of years, we should be self-reliant in water consumption."

REDUCE RESOURCES' USE

Prof and dean (administration) B Mahadevan said, "We have chalked out three steps.

Designed & developed "Made in India" products, starting with Tata Elxsi

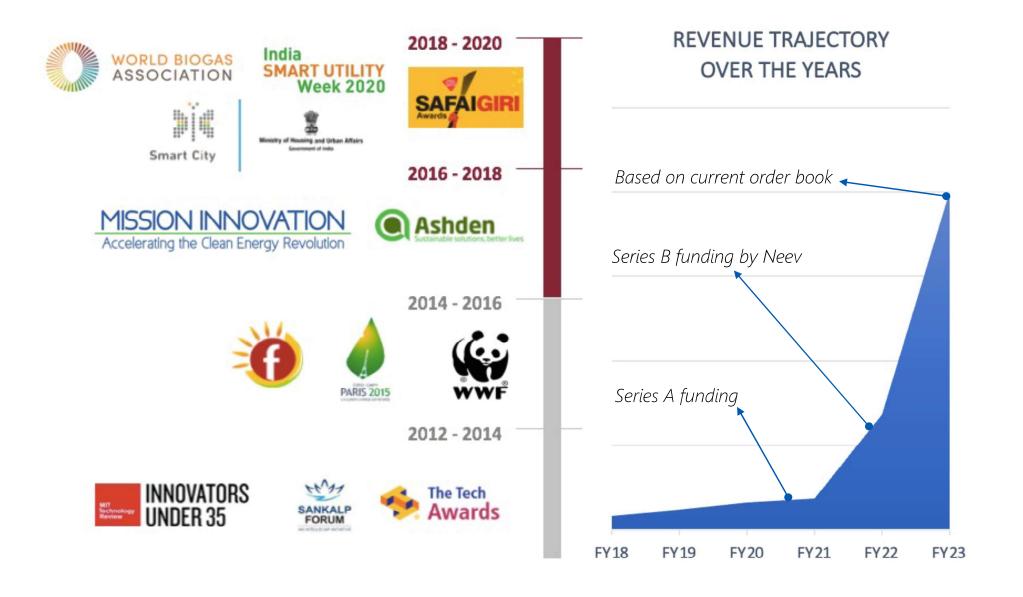
Attempted starting a EV 2010 alongwith Amarendra

mint

Entrepreneurship gains ground as a career choice on campuses



... AND THIS VISION GAINED STRENGTH, AS GPS GREW STEP BY STEP

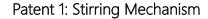


OVER THE YEARS ...

WE'VE BEEN CREATING, & IN SOME CASES, CURATING

VARIOUS BUILDING BLOCKS OF THE CLIMATE SOLUTIONING PUZZLE

WE'VE BUILT THE MOST SUCCESSFUL CAPTIVE FOOD WASTE TO BIOGAS PRODUCT ...



Convection currents based continuous stirring mechanism which avoids need for moving parts inside digestor

Enzymatic hydrolysis, and proprietary monthly health capsule for better digestion and gas production

Patent 2: Automatic Titration

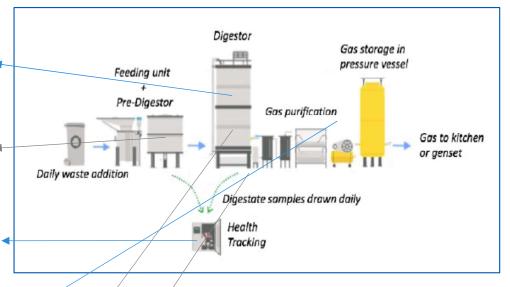
IoT based automated titration system which acts as data feeder for Biogas Bot

Patent 3: Auto-compression

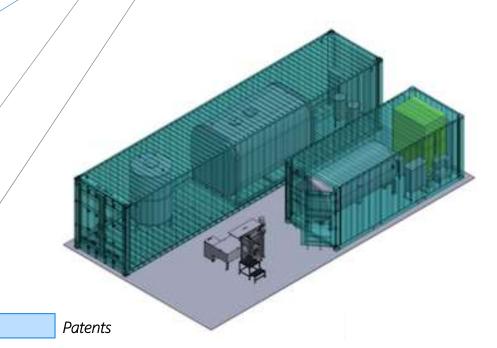
Unique biogas compression system to optimize storage space, enables gas measurement and ensures apt gas pressure at application point

Robust temperature control module to avoid thermal shocks to bacteria which ensure stable and higher gas production

2-stage high-rate, high-solids biomethanation system



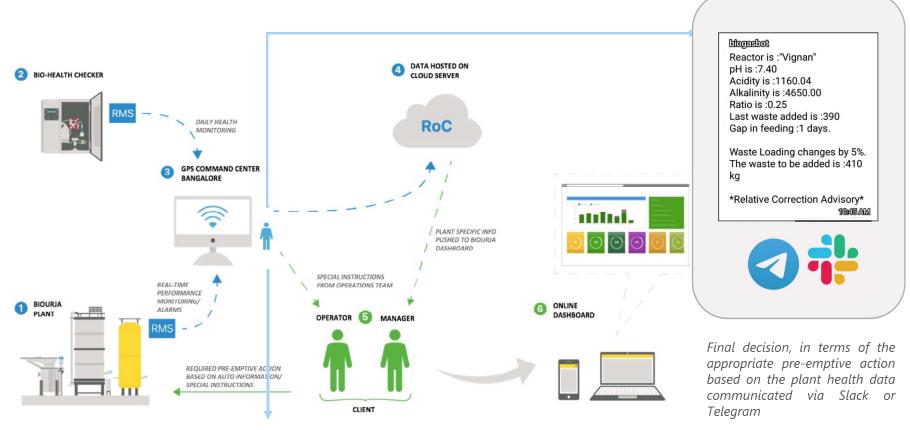








... POWERED BY AN ORIGINAL AI SOLUTION FOR REMOTE BIOHEALTH MONITORING



BiogasBot: **GPS' Expert System,** which mimics GPS' Operations Team and Founders in decision making

Today, the BiogasBot helps the team manage the biohealth of ~ 100 operational biogas plants across South Asia, without the need for ANY technical personnel on the ground, or even at a centralized office.

WE HAVE BUILT & WE CONTINUE TO KEEP BUILDING A GREAT TEAM ...

Milind Patke, President

Prior to joining GPS, Milind was heading biofuels at BPCL as an Executive Director. He led the execution of BPCL's integrated 2G/1G ethanol bio refinery project at Odisha (Capex: INR 1,600 Cr), and coordinated procurement of 1G Ethanol for all OMCs. He has also played a key role in the shaping of MoPNG's SATAT policy.





Gomatam Ravi, Head, D&E

Ravi comes with over 3 decades of process engineering and EPC experience. Prior to joining GPS, Ravi led Shell's Gas Processing Division as General Manager, Asia Pacific region, followed by driving Shell Technology Centre's R&D initiatives, including the IH² pilot project. Ravi has also been with GE Plastics and EIL in the past.

Dr Dilip Ranade, Scientific Advisor, D&E

Dr. Ranade is one of the most respected figures in the bioenergy space, having taken Agharkar Research Institute to new heights as its Director. The World Bioenergy Association recognizes him as one of the leading global experts. His key contribution have been in the area of petroleum biotechnology and biomethanation



Mohit Gupta, Head, Project Incubation

Though critical, the incubation phase of any bioenergy project is an often neglected phase. Mohit comes with a rich experience in the same, having single handedly driven Spectrum Renewables' 2nd BioCNG project from incubation to commercial operations. Mohit's responsibility at GPS is to ensure every bioenergy project is managed with clockwork precision from Day 0!

Dr Sekhar Krishnan, Technologist, D&E

Dr Sekhar is a chemical engineer with over 3 decades of R&D experience, with expertise in effluent handling. Dr Sekhar Krishnan was the ex-Head of R&D (South Asia) at Suez (previously GE Water). Dr Sekhar's current focus is on custom designing ETPs for GPS' bioenergy projects.



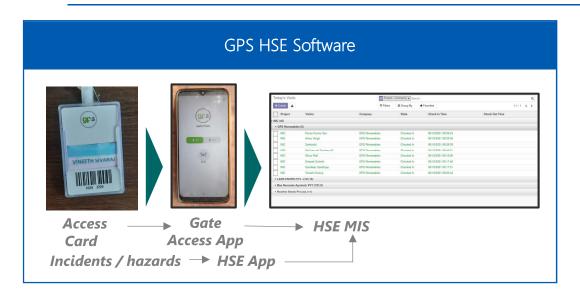


Sankalp Pathak, VP, D&E

Sankalp is a microbiologist with expertise in press mud cake and spentwash treatment. Sankalp has been associated with some of India's landmark bioCNG projects such as IOT Mabagas and Spectrum. He also holds a Masters in Data Science from IIIT Bangalore



& CREATED OUR OWN SAAS SOLUTIONS TO EMPOWER OUR TEAM & PARTNERS DO MORE



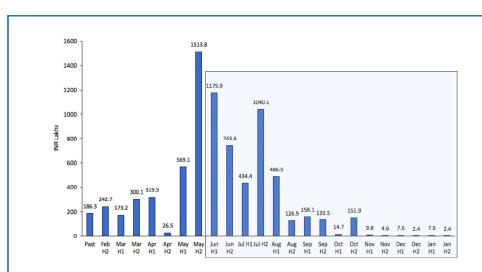
GPS' Project Management Platform



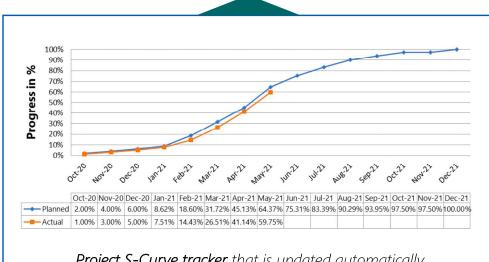




Daily updates fed by the site engineer via a mobile to the PM MIS



<u>Weekly cashflow tracker</u> is linked to the procurements module. Gives real time update of week wise cash requirements



<u>Project S-Curve tracker</u> that is updated automatically. Tied to GPS' project management software.

OUR BABY STEPS TOWARDS BIOENERGY PROJECT DEVELOPMENT



WE JUST EXECUTED ASIA'S LARGEST SSO BASED BIOCNG PLANT ...

- India's (and one of the world's) largest SSO (source separated organics) based bioCNG plant
- Project highlights:
 - ✓ Location: Indore, India's cleanest city with near perfect source segregation
 - ✓ Model: **BOOT** Build-Own-Operate-Transfer
 - ✓ Project Developer: EverEnviro **
 - ✓ Capacity:
 - ✓ Input feed: 500 TPD
 - ✓ BioCNG output: 16-19 TPD
- Role of GPS: Turnkey EPC
- Timelines:







& ARE NOW INSTITUTIONALIZING BIOENERGY PROJECT INCUBATION

FINAL **INVESTMENT** PROJECT CO-**GPS MANAGEMENT GPS' PRELIMINARY** COMMITTEE **DEVELOPMENT DD PARTNERS** & FINANCE TEAM **READY PROJECT PARTNERS REPORT INCUBATION** FINANCIAL & **REST OF CAPITAL LEGAL INPUTS** CAPITAL **SPV WITH PROJECT** SHOVEL READY **PROJECT SALES INCUBATION** SCORE CARD **PROJECT MANAGEMENT TEAM TEAM** +**TEAM TERM SHEET DEFINITIVE AGREEMENTS BASIC TECHNICAL DETAILED ENGINEERING INPUTS ENGINEERING**

DESIGN & ENGINEERING TEAM