

Turnkey Solutions and Technology

S&B offers a complete range of waste water treatment solutions provided by one of the world's experts in waste water solutions driven by their experience and desire for environmental protection and green excellence. Each water treatment project is unique in its requirement and can only be realized by conducting an initial Pre-Study Design analysis taking into account all the variables including the needs of the community, entrepreneur or investor. Consideration must be given to the waste water treatment location, the available resources and the specified consumer requirement for operational quality, whether by the community or enterprise. Upon a positive business plan and sustainability study, the project has reached the stage of commercial and financial evaluation by the customer.

In special cases where the final customer needs financial assistance either in the form of bridge or long term financing, S&B will endeavor to locate suitable sources of financing applicable for the project, but always in compliance with the special conditions associated to the country.

Solar & Benefit Workflow Agreement

In line with the above workflow requirements, S&B undertakes the whole process from the start up to final project completion. The workflow may be summarized in the following steps:

- STEP 1** – Customer Request for Waste Water Treatment Installation
 - Waste Water Treatment Installation Questionnaire, Pre-Check, Project Qualification and Customer Demographic and Specific Environmental Requirements declaration
- STEP 2** – Customized Pre-Study Design, Indicative Price Offer and Business Plan – with an applicable fee of 1,5% of the projected project turnkey value, based on Customer Demographic and Specific Environmental Requirements declaration
 - Complete Design and local Documentation for Permitting – with an applicable fee of 5% calculated on the actual project turnkey value
- STEP 3** – Construction and Commissioning

Operation & Maintenance

S&B will support the customer for the immediate operational lifetime even after the initial warranty period and commissioning, being present for his subsequent concerns, whether technical or commercial. Our company's Operation & Maintenance Division will continue to provide the necessary preventative and remedial maintenance for all Biogas subsystems and support the customer for all his technical and operational concerns.



Waste Water **Treatment Systems**

powered by Green Energy



Solar & Benefit Group OOD

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Waste Water Treatment Systems

In line with Solar & Benefit International's mission motto "Save Nature" and its Environmental Preservation Technologies and Green Energy systems, S&B offers a wide range of high end technology and compact Waste Water Treatment systems catering for small to large scale applications in diverse locations from more populous to remote and difficult terrains wherever there is a need for clean and efficient waste water handling in a smart and elegant way avoiding large and ugly installations, while guaranteeing completely odorless operation. Being completely enclosed systems, the "STP process" waste water treatment system can be installed in the most demanding and sensitive commercial and touristic environments, where the existence of the waste treatment plant is totally disguised in the most pleasant way, for example amidst the futuristic settings or gardens of a touristic complex. In addition to offering a wide range of solutions, the STP systems may cater for widely differing conditions and requirements, S&B

also offering solutions overcoming local geographic deficiencies especially in the area of energy availability for power to the waste water treatment systems, allowing efficient and economical processing of today's much needed green treatment of water sewerage generated by communities or small to large scale commercial industrial or tourist complexes.

By combining S&B's complete product and technologies portfolio, S&B can provide a multitude of solutions, catering for the needs of any community or commercial venture. Our technologies and synergies may be applied for the realization of the most demanding projects or providing significant savings in the operational cost of large scale community or commercial projects, achieved through the combination of STP's special features, advanced technology solutions and multitude of supporting peripheral systems:

S&B Waste Water Treatment systems features

- Fully enclosed systems not directly viewable by the general public
- Smallest footprint, allowing the easy disguising and blending into pleasant surroundings
- Completely odorless operation and installation in the immediate human environment
- Optimum efficiency operation and lowest energy consumption by the STP plant
- Most stable operation over varying population, seasonal and climatic conditions
- Fully automatic and autonomous operation
- Very low or maintenance free operation
- Co-generation and Solar or Wind Energy systems for remote or autonomous operation
- Lowest cost of ownership over the STP's Waste Water plant's overall lifetime
- Safe use of processed water output for irrigation of hotel or resort complex's gardens
- Filter option for the safe usage of dried filtered waste remnants as fertilizers



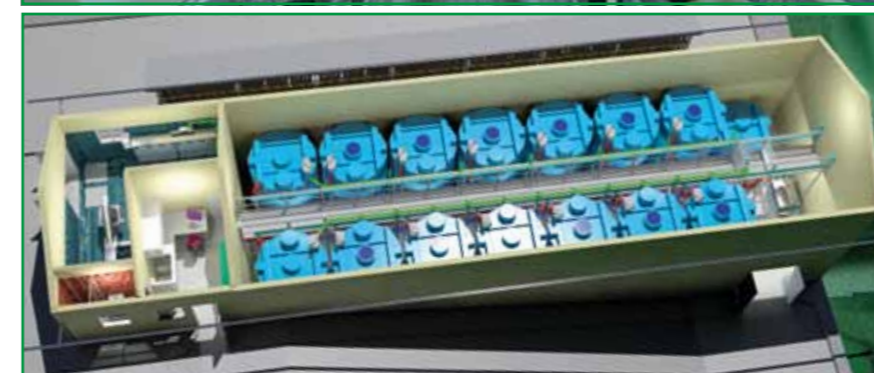
Depending on specific community or commercial activities, whether located in remote or having difficult geographic access, degree of seasonal fluctuating population demand, the advantages and synergies of S&B's features suitably combined, effectively contribute in providing the stable treatment of the waste water. Further to S&B's capability to supply complete solutions for a full range of specific water treatment needs for communities, hotels, resorts or commercial and industrial applications and needs, the process treatment is also provided at the lowest possible operational cost.

Description of STP and VOPROM-SBR Waste Water Treatment Plants

Decentralized Plants with Fully automatic operation even with fluctuating influent loads

Our STP plants meet the highest demands, completely encased and produce no odors or noise. They may either be operated autonomously or using a report system which monitors the plant's operation at any time. Our plants are delivered with hygienically-closed white polyethylene tanks for the treatment of wastewater for capacities up to 5,000 people. The degree of treatment may be even further increased by a tertiary treatment step producing non-potable processed water for irrigation or other purposes.

In the case where the capacity needed to cater for the requirements of over 5,000 people to 50,000 people, we can offer the **VOPROM – SBR plants** designed with concrete tanks. The main goal of this alternative design is to create a higher local productivity by enabling local companies to take over the construction works, meaning that only the patented electromechanical parts and control devices are delivered by us.



Quality

All components used in the Waste Water treatment construction and their supporting equipment and subsystems are predominantly of Austrian, German and US origin, being built to the highest standards of craftsmanship.

Guaranteed Operation – PVS System Manufacturing and Consulting

Solar & Benefit International's Waste Water treatment projects are powered by PVS Systems of Austria, one of the world's renown Water Treatment experts having built many innovative design installations in Europe, Middle-East and Asia-Pacific. To reach the guaranteed waste water treatment results specified by the initial design feasibility study, the waste water treatment capacity and quality is optimized according to the original customer's specified requirements in accordance with the specific environmental criteria.

Save Nature!