## SB AQUACULTURE PROPOSAL

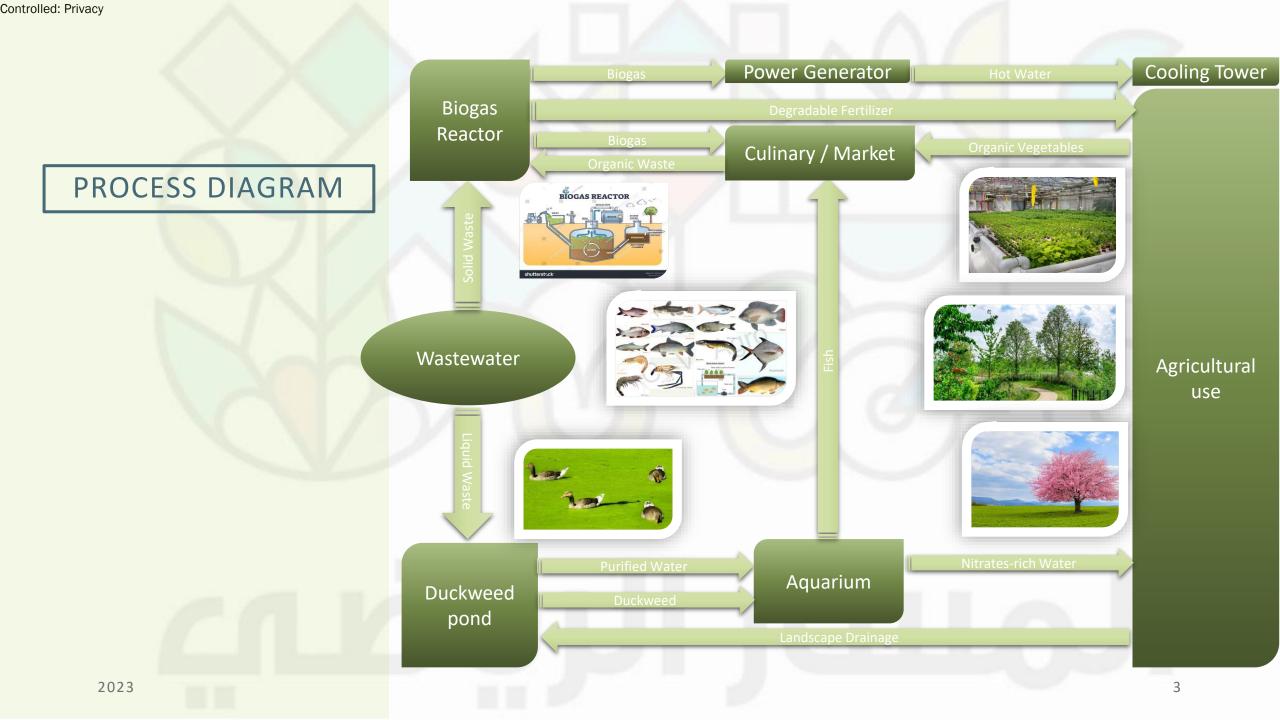
By: Eco District Design Team

Controlled: Privacy

THE SYSTEM

Is a closed cycle that integrates in-site Energy Production, Food Production and Water Treatment through a sustainable balanced chain of biological reactions.







## SYSTEM OUTPUT

- 1. Biologically treated water.
- 2. Fish 40- 60 kg/1 m3 of treated water.
- 3. Poultry.
- 4. Organic vegetation.
- 5. Fully biodegradable compost for the programs landscape.
- 6. Nitrates-rich irrigation water from the fish aquarium.
- 7. Biogas for the kitchens' operation.
- 8. Biogas for possible distilling aromatic and medical oils.
- 9. In-site electrical power production from Biogas.
- 10. Hot water as a biogas side product to be used for cooling.



## SBF BENEFITS

- 1. Emphasize the SBF role as the national lead in sustainable cost-efficient food production.(Branding)
- Provide program end users with a unique leisure experience through green lakes, fishing and similar activities.(marketing)
- 3. Food production running cost reduction. (O&M)
- 4. Landscape running cost reduction through in-site fertilizer production and biological water treatment. (O&M)
- 5. Reduction of the culinary running cost via biogas. (O&M)
- 6. Broadening the food production spectrum to cover organic fish and poultry production. (Marketing)
- 7. Water treatment initial and running cost reduction.
- 8. Energy initial and running cost reduction.

