



SUSTAINABILITY - ECOLOGY - HEALTH

www.biosynergetics.co.za

A partner of the Sustainable Projects Group of Companies

www.sustainableprojects.co.za

0861 33 33 77

Find out how you can green your home and office - for health, comfort and sustainability.

Ecological Design

We design and assemble **whole-system solutions** that integrate cutting-edge sustainable technologies for energy, habitat, and resource management. We work on residential, educational and office projects. **Our network** of specialist partners can develop and implement eco-design solutions flexibly and creatively, including greenfields developments and retrofitting existing buildings.

Renewable energy systems

Tap into the grid of renewable energies by installing solar, wind and biomass energy systems. We can set up hybrid systems that dynamically integrate wind, solar, and biomass energies to power specific applications with reliable and clean sources of energy - year-round!

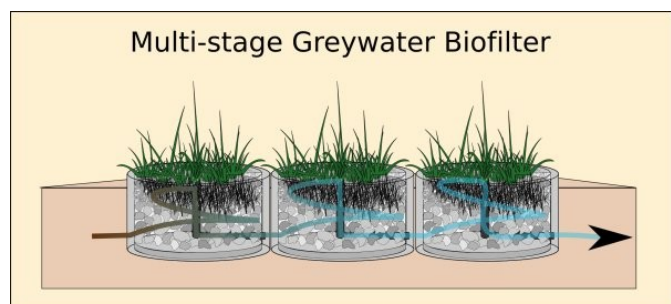
- Solar PV
- Wind energy
- Hybrid energy systems
- Solar water heaters
- Biomass Energy Systems
- High-efficiency woodstoves



Greywater biofilters

Re-use water from kitchen, bath, shower, and basins by routing it through a multi-stage biological filter to reap multiple benefits:

- Biofilters add an abundance of refreshing vegetation to your building project's exterior
- Biofilters can improve a building's microclimate
- Greywater re-use for irrigation can reduce your water usage costs by more than 40%





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Rainwater catchment systems

South Africa is a water-scarce country. By harvesting rainwater, you can reduce the amount of municipal water needed to serve your garden and home. Reducing a building's water consumption has a major impact on its ecological footprint. Tanks attached to the guttering system provide an effective way to store rainwater. Stormwater catchment systems can attenuate run-off, and store it for use in landscape irrigation.



Water-wise irrigation systems

We can design and install automated water-saving solar pumping and irrigation systems that will allow you to maintain a lush garden at minimal cost and effort.

Ecological Landscape Design

Ecoscaping enhances the aesthetics of indoor and outdoor spaces, addresses site challenges like erosion, scouring and waterlogging, and allows a building to integrate smoothly and sensitively with its environment.



Xeriscaping (using dryland-adapted plants) and landscapes using **indigenous** plants require less water to maintain. We can transform a building's environment into an oasis of food and herbs by incorporating **edible landscapes** and **herb gardens**.



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Container, Trellis, Pergola & Vertical Gardens

In a high-density urban environment, container gardens allow you to make the most of your space and to grow ornamentals, food and herbs in the smallest of spaces. Our high-quality trellises and pergolas will allow shady, productive vines to take advantage of the vertical dimension. These lush garden features create discrete and restful outdoor spaces. Vertical gardens allow you to clad a building's facade with a lush green exterior to filter sunlight and air.

Attached Greenhouses

Attaching our modular greenhouse design to a building adds a vibrant feature with many benefits:

- generates warmth and humidity in winter
 - keeps the home cool in summer
 - plants filter and revitalise the air
 - allows gardening fans to grow plants year-round despite heat, drought, or cold
 - creates a shady, lush garden that is part of your home
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Earthbuilding

Earth is a durable building material that has been used for centuries. Its low carbon footprint, local availability, natural feel and unique thermal performance make it an ideal ecological building material.

We can construct cottages, homes, bomas and lodges using traditional and durable earthbuilding technologies like cob and adobe.





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Network Partners

Florian Kroll, M.A. - Open Synergy Founder & Co-ordinator

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Landscape Design & Irrigation

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Kevin Payne – Sustainable Projects

Network Partner – Renewable Energies (PV, Wind, SWH) & Water Filtration

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Partner Organisations

WITS Health Promotion Unit

[Siyakhana Permaculture Project](#)

[Ekukhanyeni Relief Project](#)

[Sustainable Projects](#)

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