



Floating Gardens

Fytogreens floating gardens are designed to vegetate ponds, waterways, dams, quarries and waterbodies requiring either an aesthetic treatment, habitat production or water processing/rehabilitation to reduce pollutants.

The Fytogreen system is hydroponic, thereby plants receive all nutrition directly from the water column. This ensures plants direct all their potential to absorb nutrients, including pollutants and heavy metals, directly from the water they are growing in, rather than organics held within their rooting substrate. This is a highly efficient means of utilising vegetation to condition a site, aiding in rehabilitation and remediation towards healthier conditions and habitats.

Floating gardens can also be used to improve water conditions in the following ways:

- Plants removing excessive nutrients directly from the water
i.e. reducing algal blooms from urban marshland, ponds and waterways.
- Plants removing heavy metals directly from the water column
i.e. rehabilitating industrial or mining sites.
- Generating floating island, thereby reducing solar inputs into water, with the resultant shading reducing algal growth and moderating water temperatures to reduce overheating.

The benefits for nurseries, golf courses, parkland, botanic gardens and allied industries, is immense.

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When planted with native and indigenous semi-aquatic species, these floating gardens not only process water, they can be used as habitat refugia and seeding agents for embankments of surrounding, establishing or degraded wetlands.

Plant roots extending into the water column below floating gardens, may anchor gardens into substrates below, or drift freely in deep waters, generating submersed spawning habitat for a range of fish and aquatic life. This is vital in areas where predators or disturbance may hinder the establishment of sensitive aquatic life.

The benefits for newly establishing wetlands, fisheries, degraded (existing) wetlands and industrial applications incorporating WSUD, are notable.



Floating gardens can be utilised as aesthetic treatments for ponds, natural swimming pools and amenity waterways, with a range of native and exotic species. These can be temporary or permanent installations, offering significant peripheral functioning and benefits, beyond powerful aesthetic treatments.

Many urban ponds and wetlands reach a point of stasis where surrounding, peripheral, embankments are controlled to establish low risk zones in high human traffic areas. Inaccessible, open, water therefore presents significant benefit for establishing undisturbed habitat for aquatic and migratory species, where human access needs to be limited, even within the cdb or high traffic zones.

Floating gardens may be integrated with hydroponic and aquaponic systems, through the incorporation of edible vegetation. It is clear there are significant benefits to be yielded from integration with farming, cropping and production industries.

Fytogreens floating gardens are modular, allowing for versatile configurations of modules to fulfill a plethora of functions. This includes configurations to specifically integrate with waterways offering high water flow with potential for silt deposition to cause choking or excessive accumulation in unfavourable locations. Active floating gardens can be used to moderate water flow, slowing currents, thereby controlling silt deposition in targeted locations, whilst simultaneously establishing habitat, processing water and seeding banks of ailing wetlands. Floating gardens offer support to municipal and government installations on a range of scales, inclusive of newly establishing, remnant and long-term installations.

This is a versatile technology capable of being integrated into urban and rural settings, covering industrial, commercial and residential applications, on small and large scales.

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