



SUSTAINABILITY APPROACHES



SOLAR HARVESTING

PHOTOVOLTAIC PANELS

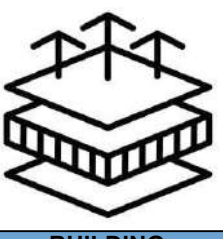
Photovoltaics (PV) is a method of generating electrical power by converting solar radiation into direct current electricity . Operating through this method, Photovoltaic panels are fitted to feed this generated electricity directly into the building. These PV panels are used to supplement grid fed electricity during the daytime, which reduce the dependency on traditional power sources as well as our carbon footprint. The benefit of using this system is that it will offer a long terms saving on the cost of electricity.



RAIN-WATER HARVESTING

RAINWATER HARVESTING

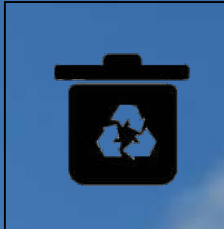
Rainwater harvesting system is simply an underground tank that collects and stores runoff roof water. This water is reused in the building as flushing water for toilets and urinals, yet another innovation that saves you on water expenditure.



BUILDING INSULATION

INSULATION

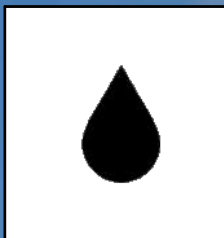
Insulation is an important component, in which is used in our latest developments. This reduces thermal transfer through floors,walls and ceilings. We accomplish this by fitting insulating materials in our cavity walls, ceilings and floors. In doing so, more tropical heat is kept outside the building, making for a more consistent and comfortable temperature inside.



SMART WASTE DISPOSAL

SMART WASTE DISPOSAL SYSTEM

Waste management has been integrated to promote environmentally sustainability. The system involves strategic placement of color coded bins categorized:- organic, hazardous, recyclable. Aim is to reduce landfill waste and support recycling initiatives contributing to environmental conservation and improved living conditions.



GREY-WATER RECYCLING

GREY WATER PLANT

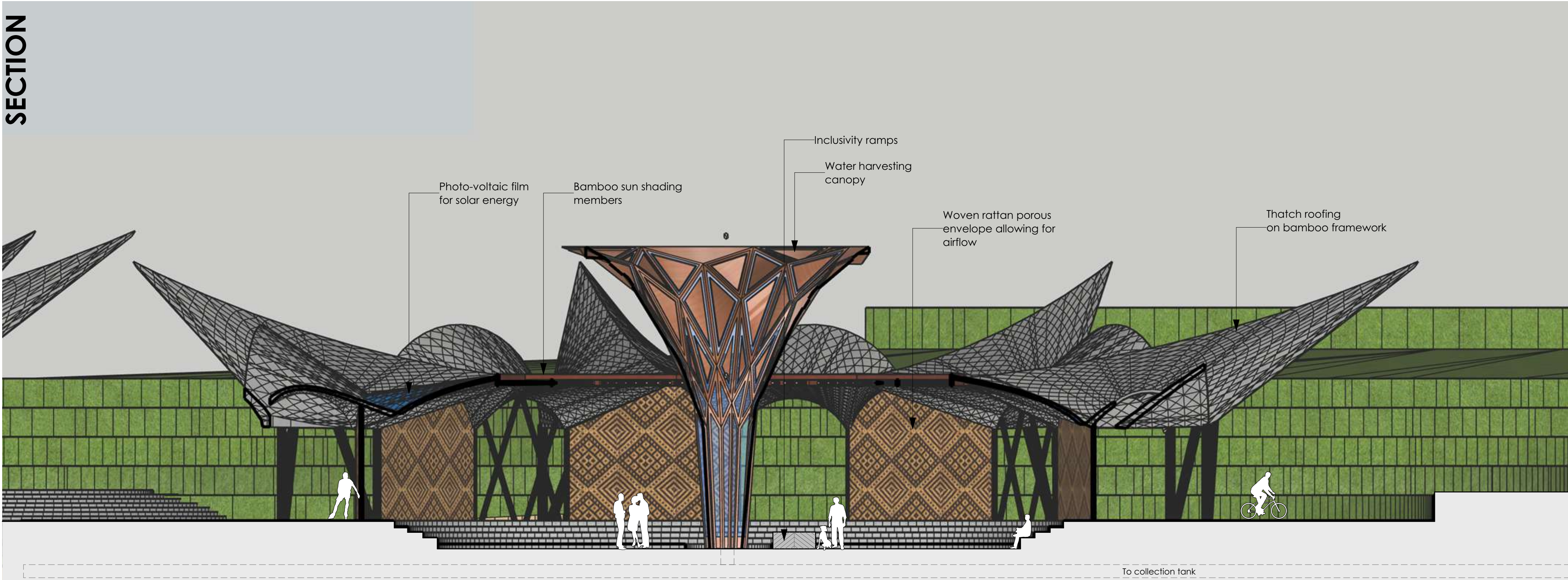
A grey water plant is installed to collect and save the waste water from basins and showers in a storage tank. This water is treated and then used to irrigate surrounding gardens. A grey water plant is an excellent cost saver as it reuses 80% of water needed and assists when water restrictions are implemented.



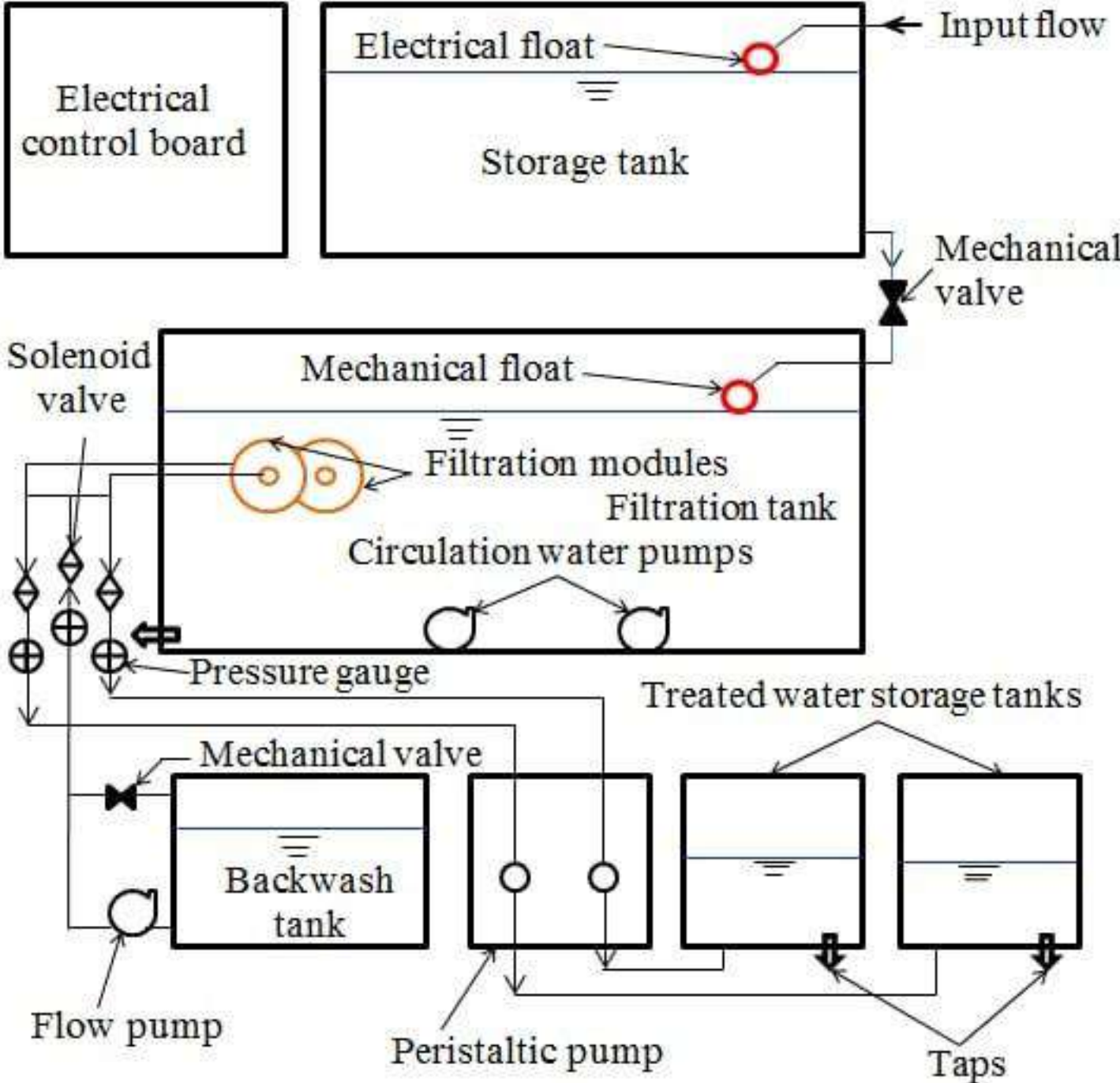
URBAN FARMING

SMART URBAN FARMING

For the roof floor level, smart farming techniques have been installed to promote self-sustenance through the ability of subsistence farming for the tenants. This practice is made possible through use of hydroponic farming and greenhouse technology, all of which are made from recycled and reused construction materials. For example:- hydroponic stations are made from recycled P.V.C pipes and green house skin is made from a mix of re-used clearfast glass panels and glass bottles.



SECTION



OPERATIONAL CYCLE