




Citizen's Greening Initiatives:

at Nirvana Country,
Gurgaon

Nirvana Country is located in Sector 50-51 of Gurgaon with 1200 villas (950 occupied) in an area of 300 acres. **Sustainability initiatives are part of the community's goal of going green and giving back to the society.**



Solar Energy Integration

Residents of Nirvana Country are installing rooftop solar photovoltaic to become producers and users of "Green Power" and to reduce grid dependence.

Phased approach – Solar rooftop to be installed in common areas followed by individual villas.



Water Management



Rainwater Harvesting

1.42 lakh litres water saved every month through a well-maintained rainwater harvesting system comprising mini water pits in each household to collect all wastewater except black water. Collected wastewater is sent to 14 major Rainwater Harvesting pits. Wastewater is filtered before injection into groundwater. Rise in groundwater table from 200 ft. to 65 ft.



Wastewater Treatment & Reuse

3-4 lakh litres of wastewater predicted to be treated by a sewage treatment plant. Treated water to be used for horticultural purposes.



Solid Waste Management

Household waste segregated into- wet compostable waste, dry recyclable waste and dry non-recyclable waste.

Wet/kitchen waste and garden waste is diverted to zero-energy composter.

900 kg compost is generated each day after a 14-day cycle.

E-waste segregation and collection once a month.

To know more about the initiative, write to sanukapila@gmail.com

This document depicts a preliminary assessment of possibilities of climate resilience across various building types.

Building Type

High potential, only financing challenge

High potential but low demand or financing plus infrastructure challenge

Low potential and / or difficult challenges

Climate Resilience Interventions

Residential



Commercial



Renewable Energy Integration



Solar Rooftop PV for Power Generation

Rooftop availability high

Rooftop availability low; High initial cost

Rooftop limited, but savings higher due to commercial tariff

Rooftop limited, but savings higher due to commercial tariff

Solar Water Heating

Rooftop better used for PV due to lack of year-round hot water demand

Low potential due to low hot water demand

Feasible if hot water demand is high

Feasible if hot water demand is high

Water Management



Rainwater Harvesting

High water saving potential

High water saving potential

Limited potential; Space constraint

Limited potential, but water use may be high

Wastewater Recycling

Land availability may be a challenge; Pipelines for water reuse challenge

Land availability may be a challenge; High potential, reuse in garden

High potential for reuse in HVAC cooling

High potential for reuse in HVAC cooling

Waste Management



Solid Waste Recycling

Recycling of various solid wastes, but challenge of segregation and collection

Recycling of various solid wastes but challenge of segregation and collection

Recycling potential high for paper and e-waste

Recycling potential for packaging waste

Wet Waste Composting/Biogas

High potential for composting; Biogas possible if there is a community kitchen

High potential for composting or for electricity for common areas

High potential only if there is a canteen

High potential for biogas for kitchens serving food courts and restaurants

To know more about this assessment, write to rekhak@weft.co.in