



The Abu Dhabi Eco Park master plan represents the framework for a new urban community, and a roadmap for how this land will be transformed into a model of sustainable living. The sustainability plan, closely modeled on the One Planet Living guiding principles, lays out the vision, strategies, and actions necessary to create an environmentally, socially, and economically sustainable development for the enjoyment of residents, visitors, and neighboring communities.















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ZERO CARBON

ENERGY

Implementation of energy efficiency in buildings and infrastructure to reduce usage by 60%. On-site energy generation of between 50 and 100% of average annual requirement from PV, Wind Turbines, Biomass Plant, Solar Hot Water Generation.



ZERO WASTE

WASTE

Reduction of average waste generation from 840kg per person per annum to less than 550 kg per person per annum, 70% plus recycling and composting of waste. Plan for incremental betterment until zero waste to landfill is achieved. Local storage capacity for recyclables.



SUSTAINABLE TRANSPORT

ACCESS AND TRANSPORT

On-site elimination of private vehicle transport with corresponding major reduction of CO2 emissions by use of low-impact shared electric carts, solar powered boats, community shared bicycles, walkways, underground delivery paths from a central receiving area. Ferries, buses, and a light rail system will ultimately link the community to the larger city.



LOCAL SUSTAINABLE MATERIALS

MATERIALS

Carbon emissions are minimized by using local construction materials including aggregate, sand, and stone, and locally manufactured building products. More than 80% of delivery will be by barge to further lessen the carbon footprint.



LOCAL SUSTAINABLE FOOD

FOOD/ORGANIC FARM

The substitution of imported food with food locally produced will result in significant CO2 reduction. Advanced food production technologies, including hydroponic greenhouses, will maximize yields. The various approaches to farming will act as an ancillary teaching vehicle to the programs in Ma...



SUSTAINABLE WATER

WATER AND WASTE WATER

Institution of a water consumption reduction strategy that limits demand to less than 160L/person per day, irrigation to less than 8L/square meter/day – achieves zero recirculation losses – and meters 100% throughout the site. Collection of stormwater and capture and reuse of all wastewater for irrigation, heat dissipation, e...



NATURAL HABITATS AND WILDLIFE

ENVIRONMENT

Secure and enhance the existing mangroves habitat and selectively dredge and adapt marine environments to create habitats for a wide range of indigenous species.



CULTURE AND HERITAGE

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The design pays close attention to not only the traditions but also to what history has taught about the importance of wind and shade, water preservation, solar chimneys, and materiality. As a community will be home to both Emirates and Expats – from both western and Islamic cultures – much attention has been given to developing environs within which all will be comfortable.



EQUITY AND FAIR TRADE

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The intention is to create a local economy based around the project and integrated with the region which provides employment and training opportunities. By maximizing on-site employment in the sports facilities, in the schools and teaching environments, at the hotel and restaurants, and at the more diversity is attained, and sustainable benefits achieved from less reliance on vehicular travel.



HEALTH AND HAPPINESS

COMMUNITY

Create an environment that enhances people's sense of wellbeing. Encourage walking and cycling as means of transport. Provision of publically accessible open space and designation of unencumbered water creeks for leisure and recreation.