

BrightFarm Systems develops futuristic urban agriculture projects

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GreenMarket sustainable food production facility, United Arab Emirates

GreenMarket, UAE

The GreenMarket utilizes BrightFarm Systems pioneering rooftop and facade mounted, sustainable greenhouse designs, to integrate hydroponic food production into civic buildings. The layers of vegetation encased in the walls of the building provide shade for the building interior.

The interior of the building structure is designed to serve as marketplaces, recreation centers, meeting halls, or any function that can benefit from enclosed, naturally lit, shaded, conditioned or semi-conditioned space. In the Abu Dhabi climate, these spaces will be extremely appealing in the summer, but should also be very comfortable at all times of year.

Hydroponic food production offers compelling advantages in the United Arab Emirates, where a rising demand for quality food exists in a context of poor soils, diminishing natural water resources, and abundant sunshine. Fresh, perishable vegetables are currently air freighted into the region from distances of up to 5,000km.

Whole Foods Market, USA

BrightFarm Systems was commissioned to design and install a demonstration scale, sustainable urban greenhouse for a new Whole Foods Market store in Millburn, New Jersey.



The demonstration scale greenhouse system was designed to allow for on site production of high quality, fresh herbs for use in Whole Foods prepared food services as well as for general sale.

Central to the BrightFarm Systems design was the application of modern, water efficient, recirculating hydroponics. In this instance, lines of vertical growing towers were deployed along the window frontage, to make best use of the available light.

