## URBAN SKYFARM

# **ECO SYSTEM**

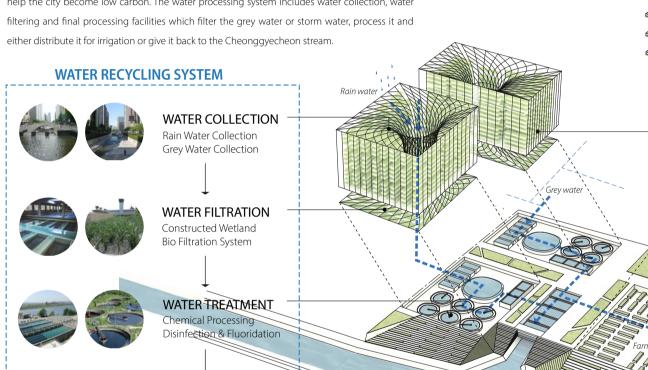
Environmentally, the Urban Skyfarm acts as a living machine which helps improving the environmental quality by filtering water and air, providing green, and producing renewable energy. The dense urban development will benefit from the additional green space by having reduced heat accumulation, storm water runoff and carbon dioxide. The Urban Skyfarm is a net zero facility which operates only with the renewable energy produced by solar and wind energy.

The vegetations and plantations will consistently convert carbon dioxide into oxygen which will help the city become low carbon. The water processing system includes water collection, water

WATER DISTRIBUTION-

Return to Cheonggyecheon

Irrigation for Farming



#### **RENEWABLE ENERGY**



#### PHOTOVOLTAIC PANELS

Photovoltaic Panels Annually generates 2,500 Mbtu



#### WIND TURBINES

Vertical Axis Wind Turbines Annually generates 2,800 Mbtu

#### **HYDROPONIC FARMING SYSTEM**



#### FARMING DECKS, OUTDOOR

Medium based Outdoor Farm Fruits: Apple, Cherries, Tomatoes etc.



## HYDROPONIC FARM, INDOOR

Solution based Indoor Farm Leafy Vegetables: Basil, Arugula etc.



## VERTICAL GARDEN, INDOOR

Community based gardens Vegetables, Flowers, Herbs etc.



#### FOOD PROCESSING

Food Cleaning System Food Packaging System



### **FOOD DISTRIBUTION**

Central Farmers Market Mobile Local Farmers Market



