GWN Community: Emek Hefer

**Name of project: Hydroponic system**

Environmental & Educational Benefits:
- Reducing resources and maintain water-efficient agriculture that can be maintained on the walls and roofs of buildings.
- The students take part in a study program in which they monitor the concentration of the hydroponic fertilizer in the storage tank while measuring the growth of the plants.

Date of Construction: 2017

Team: Hadasa Neurim Aliya group, EcoPeace

Materials: Water tanks, air stone, pipes and seedlings

How the system works:
- In the water tank, nutrients are inserted for the plants.
- An electric air pump provides air to a special stone placed in the bucket (air stone).
- Porous air stone releases small air bubbles uniformly inside the container.
- The plants are placed without soil and the roots of the plants receive supplies of oxygen and nutrients from the air stone and fertilizer

Pictures: