Claims

[Claim 1] - A green roof system, comprising:

a. a support (10),

b. green modules (40) each comprising a sealing membrane and a multilayer culture complex successively comprising at least a first fibrous synthetic material and a flexible mesh, and

c. a plurality of orientable bifacial photovoltaic panels (21 to 23) arranged above said green modules.

[Claim 2] - The green roof system according to claim 1, wherein each of said orientable photovoltaic panels is articulated to tilt between a position parallel to said support, and a position facing the sun.

[Claim 3] - The green roof system according to claim 1, wherein each of said photovoltaic panels is hinged about an axis for tilting relative to its lower edge.

[Claim 4] - The green roof system according to claim 1, wherein each of said orientable photovoltaic panels is rotated between a position parallel to said support and a position oriented towards the sun by belts or chains (20) driven by motors (24 to 27) and fixed to the upper edge of the photovoltaic panels (21 to 23).

[Claim 5] - The green roof system according to claim 1, wherein each of said orientable photovoltaic panels is rotated between a position parallel to said support, and a position oriented towards the sun, controlled by a drive system consisting of motorized hinges or bearings on which the photovoltaic panels rest.

[Claim 6] - The green roof system according to claim 1, wherein it further comprises profiles arranged transversely on said support, said profiles comprising a hinge for articulating one of said photovoltaic panels, said profiles separating two consecutive green modules.

[Claim 7] - The green roof system according to claim 1, wherein said photovoltaic panels are of the bifacial type.