CLAIMS

1. A floating photovoltaic power plant comprising an unperforated, pliable mat (2), the mat (2) being fixed to an endless, elongated floatation element (3') which surrounds the mat (2), **characterised in that** the mat (2) is arranged on a surface (33) of a body of water and in contact therewith, the mat (2) having a plurality of photovoltaic modules (1) fixed thereon and being surrounded by the floatation element (3') such that the mat (2) is located inside the floatation element (2).

2. The floating photovoltaic power plant according to claim 1, wherein the mat (2) is made at least partly of a buoyant material.

3. The floating photovoltaic power plant according to any preceding claim, wherein the floatation element (3') is substantially circular.

4. The floating photovoltaic power plant according to any preceding claim, wherein the mat (2) is fixed to a seabed (5) via the floatation element (3').

5. The floating photovoltaic power plant according to any preceding claim, wherein the mat (2) comprises connectors (9) fixing the modules (1) to the mat (2).

6. The floating photovoltaic power plant according to any preceding claim, wherein the mat (2) is at least partly made of a polyethylene, polypropylene, polyurethane, EVA, synthetic rubber or copolymer material, or a combination of two or more of these materials.

7. The floating photovoltaic power plant according to the preceding claim, wherein the mat is made of a woven textile, a net, film, sheet, plate or laminates of these materials.

8. The floating photovoltaic power plant according to any preceding claim, wherein each module (1) comprises a frame (8) and a laminate (12) which encapsulates a silicon-based solar cell (13) disposed within the frame (8).

9. The floating photovoltaic power plant according to the preceding claim, wherein each module (1) has a stiffening element (6,7,11) arranged to support the laminate (12).

10. The floating photovoltaic power plant according to any preceding claim connected to a land-based electricity grid.

11. A fish farm comprising a floating photovoltaic power plant according to any preceding claim.