CLAIMS

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

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

4. ~~A~~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. ~~A~~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. ~~A~~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. ~~A~~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. ~~A~~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. ~~A~~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. ~~A~~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.