CLAIMS:

1. A solar panel assembly, including:

a base including a plurality of tubular bodies extending along a first direction and spaced apart from each other in a second direction transverse to the first direction, said tubular bodies being configured to float on a water body;

a support unit disposed on said base, and including a plurality of supporting frames connected between said tubular bodies and a plurality of supporting rods extending upwardly from said supporting frames;

at least one solar power panel obliquely disposed on said supporting rods, said at least one solar power panel having a top surface and a bottom surface opposite to said top surface, said top and bottom surfaces being configured to convert light energy into electrical energy; and

at least one reflector plate disposed between said base and said at least one solar panel to reflect light rays to said bottom surface;

characterized in that:

said solar panel assembly further includes a plurality of adjustment members connected to said base and two opposite sides of said at least one reflector plate to adjust inclination of said at least one reflector plate;

each of said adjustment members has an adjustment slot elongated in a top-bottom direction, and a bolt extending through said adjustment slot, movable along said adjustment slot, and connected to said at least one reflector plate; and

said bolt has an enlarged head portion greater in width along a direction perpendicular to the top-bottom direction than said adjustment slot.

2. The solar panel assembly as claimed in Claim 1, characterized in that said at least one reflector plate is inclined at an angle ranging between 0 and 5 degrees with respect to an imaginary plane parallel to said base and passing through said at least one reflector plate, said at least one reflector plate and said at least one solar power panel being inclined in the same direction.

3. The solar panel assembly as claimed in Claim 1, characterized by two edge strips respectively fitted to two opposite edges of said at least one reflector plate and connected to said base in an inclined position.

4. The solar panel assembly as claimed in Claim 1, characterized by a plurality of connectors each of

which is disposed on an end of one of said tubular bodies.

5. The solar panel assembly as claimed in Claim 4, characterized in that said support unit further includes a plurality of positioning cross bars, each of which is transverse to said tubular bodies and connected between two of said connectors.

6. The solar panel assembly as claimed in Claim 4, characterized in that each of said connectors is a flanged cap that is sleeved on said end of one of said tubular bodies.

7. The solar panel assembly as claimed in Claim 1, characterized in that said at least one reflector plate is made of plastic.

8. The solar panel assembly as claimed in Claim 1, characterized in that said at least one reflector plate has a metallic layer and a reflecting layer coated on said metallic layer, said reflecting layer is made of retro-reflective material.

9. The solar panel assembly as claimed in Claim 1, characterized in that:

said at least one reflector plate includes a

plurality of reflector plates;

said solar panel assembly includes a plurality of support grids each of which is disposed beneath and connected to one of said reflector plates.

10. The solar panel assembly as claimed in Claim 1, characterized in that said at least one solar power panel is inclined at an angle ranging between 10 and 25 degrees with respect to an imaginary plane parallel to said base and passing through said at least one solar power panel.

11. A solar power system, including a plurality of solar panel assemblies, each of said solar panel assemblies including:

a base including a plurality of tubular bodies extending along a first direction and spaced apart from each other in a second direction transverse to the first direction, said tubular bodies being configured to float on a water body;

a support unit disposed on said base;

at least one solar power panel disposed on said support unit, said at least one solar power panel having a top surface and a bottom surface opposite to said top surface, said top and bottom surfaces being configured to convert light energy into electrical energy;

at least one reflector plate disposed between said base and said at least one solar panel; and

a plurality of connectors each of which is attached to an end of one of said tubular bodies;

wherein each of said connectors of one of said solar panel assemblies is joined to an adjacent one of said connectors of another one of said solar panel assemblies such that said bases of said solar panel assemblies are juxtaposed with each other along the first direction; and

wherein said bases of said solar panel assemblies are connected to each other in a spaced apart manner along the second direction; characterized in that:

each of said solar panel assemblies further includes a plurality of adjustment members connected to said base and two opposite sides of said at least one reflector plate to adjust inclination of said at least one reflector plate;

each of said adjustment members has an adjustment slot elongated in a top-bottom direction, and a bolt extending through said adjustment slot, movable along said adjustment slot, and connected to said at least one reflector plate; and

said bolt has an enlarged head portion greater in width along a direction perpendicular to the

top-bottom direction than said adjustment slot.

12. The solar power system as claimed in Claim 11, characterized by a plurality of walkways, each of said walkways being disposed between two adjacent ones of said bases of said solar panel assemblies, which are spaced apart in the second direction transverse to the first direction, and including a plurality of foot plates and reinforcement rods, said foot plates being successively disposed between said bases of said two adjacent ones of said solar panel assemblies, each of said reinforcement rods threading through said foot plates.

13. The solar power system as claimed in Claim 12, characterized by a plurality of first auxiliary connectors each extending along the second direction and bridging said bases of two of said solar panel assemblies spaced apart from each other along the second direction, said first auxiliary connectors being disposed below said walkways, each of said first auxiliary connectors having two end plates and a first connecting bar, said end plates being respectively screwed to two of said connectors respectively attached to said bases of said two solar panel assemblies spaced apart from each other, said first connecting bar connecting between said end

plates.

14. The solar power system as claimed in Claim 11, characterized by a plurality of second auxiliary connectors each extending along the first direction and bridging said bases of two of said solar panel assemblies spaced apart from each other along the first direction, each of said second auxiliary connectors having two end flanges and a second connecting bar, said end flanges being respectively connected to two of said connectors respectively attached to said bases of said two of said solar panel assemblies, said second connecting bar connecting between said end flanges.

15. The solar power system as claimed in Claim 11, characterized by a plurality of third auxiliary connectors extending along the second direction, each of said third auxiliary connectors being in the form of a bar and connecting between two of said connectors respectively attached to said bases of two of said solar panel assemblies spaced apart from each other in the second direction.