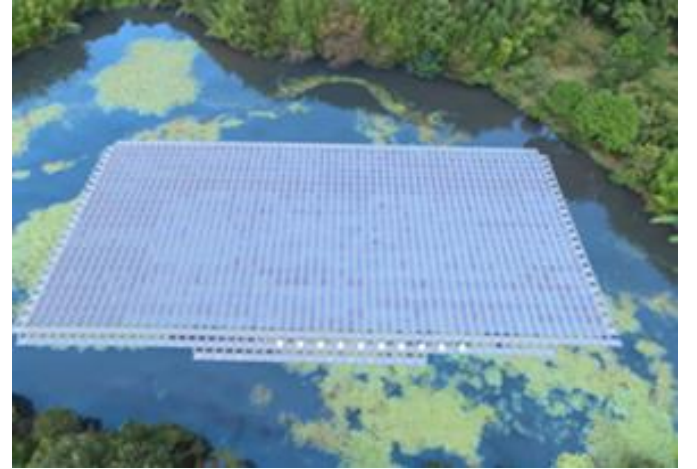
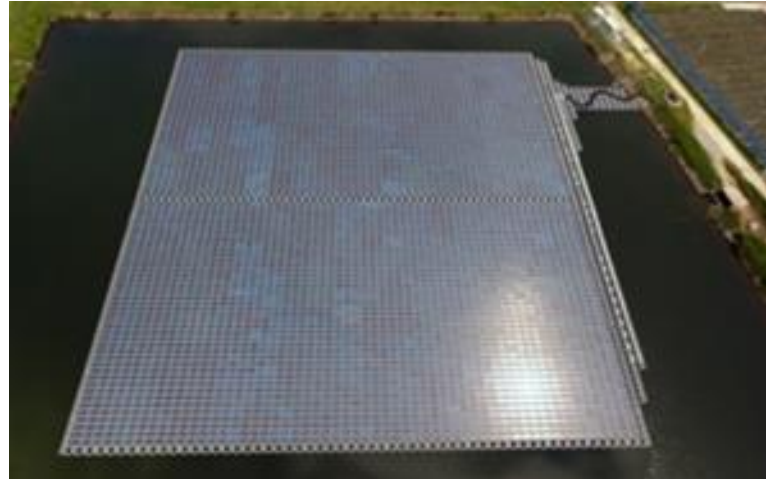


A proposal of
The floating solar panels power
generation system on water

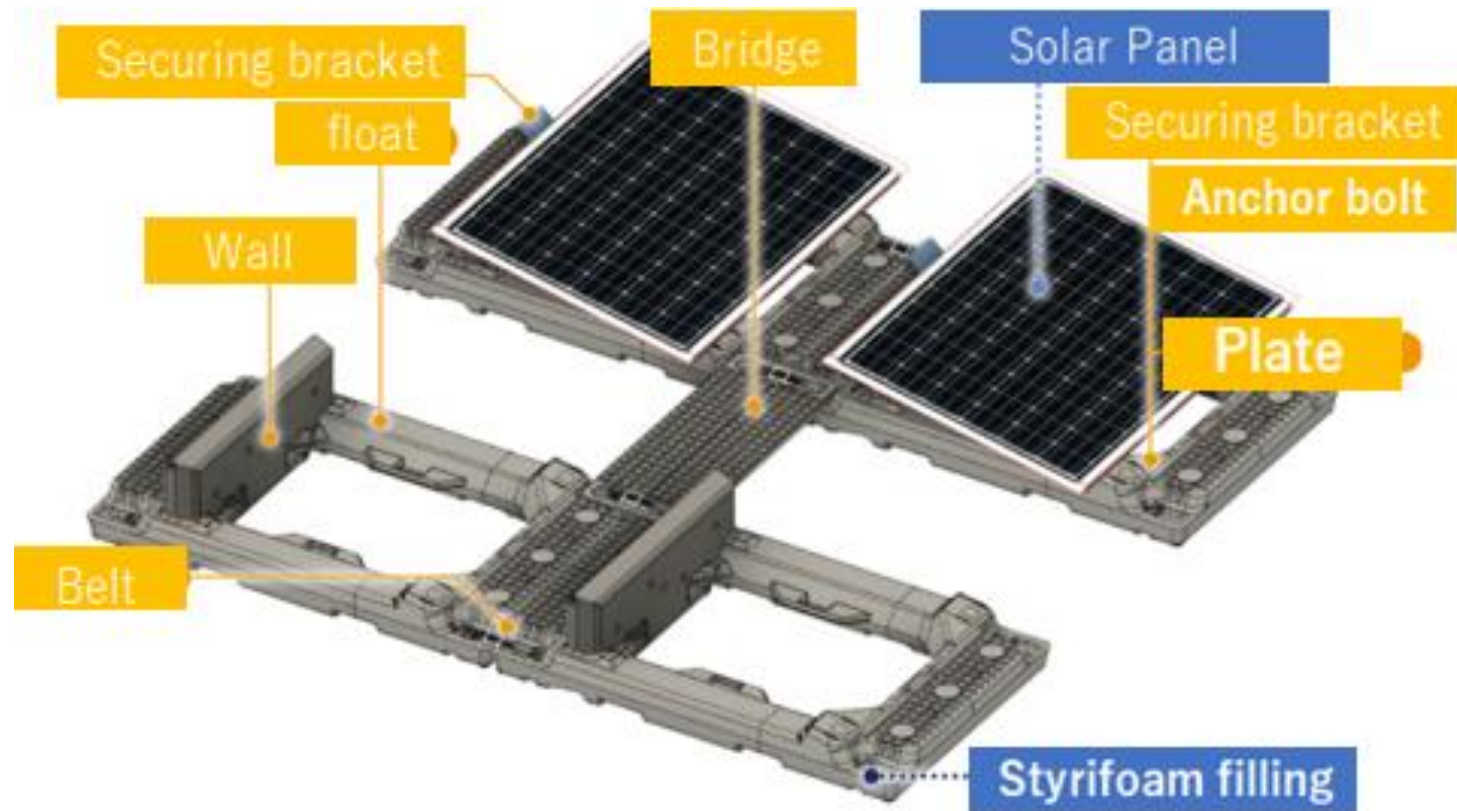


What is the floating solar panels power generation system on water?



A power generation system with floating solar panels on water such as lakes and reservoirs

The material is high density polyethylene and expanded polystyrene is filled inside the float.



✂ It can be recycled when disposing.

Installation procedure

① Line up the floats ashore



② Put the metal parts on the floats



③ Lock the panels with the metal parts



④ Connect the floats and the bridge with belts



⑤ Put the floating solar panels on water



⑥ Bring them to the designated place by boat



Advantages

- Low construction cost
- Short construction period
- No deforestations
- Control of water evaporation, water temperature raise and waterweed abnormal breeding
- High generating efficiency
- No mowing needed

Japan has the largest number of floating solar panels power generation system in the world.

The total capacity of this system is 1100MW in the world in Sept 2018.

50% is working in Japan.

Why are there so many in Japan?

- The land is small
- Most of the land is woodland

Japan has the most advanced technology in the floating solar panels power generation system.

In Ghana's case...

Akosombo Dam



Kpong Dam



Bui Dam



Because these three dams already have the power transmission equipment, there is no need to construct the new plant, thus the cost will be less.

The neighboring areas and cities can be supplied with power with that transmission equipment.

Hydroelectric power plant	Capacity by hydroelectric power	Water surface area	Power amount generated by floating solar panels of each % of watersurface			
			100%	33%	20%	10%
Akosombo Dam	1206 MW	6,000,000m ²	600 MW	198 MW	120 MW	60 MW
Kpong Dam	160 MW	18,000,000	1,800 MW	594 MW	360 MW	180 MW
Bui Dam	400 MW	30,000,000	3,000 MW	990 MW	600 MW	300 MW
TOTAL	1766 MW	54,000,000	5,400 MW	1,782 MW	1,080 MW	540 MW