Cost of a 100-foot photovoltaic container for a water plant

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How much FPV can be installed on existing bodies of water?
In the United States,it has been estimated that approximately 2.1 million haof FPV could be installed on existing bodies of water (Spencer et al. 2019). The water-cooling effect inherent to FPV systems increases PV efficiency and energy yield compared to ground-mounted systems,particularly in hot regions.
How much does a fixed-tilt FPV system cost?
We estimate an installed system cost premium of $0.26/WDC (25%) for 10-MWDC fixed-tilt FPV systems, compared with ground-mounted, fixed-tilt PV installed over bare ground. Higher structural costs related to the floats and anchoring system are the largest contributors to this premium.
How much energy does a FPV system produce?
6 The initial energy yield of FPV systems is estimated to be 1,483 kWh/kW,which is 5% lower than the initial energy yield of ground-mount PV systems because of the difference in panel tilt angle. The energy gain from the cooling of FPV systems is estimated to be between 3% in the Netherlands and 6% in Singapore (Dörenkämper et al. 2021).
How much energy do FPV systems gain from cooling?
The energy gain from the cooling of FPV systems is estimated to be between 3%in the Netherlands and 6% in Singapore (Dörenkämper et al. 2021). Because no comprehensive data are available on FPV energy yield improvements in the United States,we assume the conservative 3% value.

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