



**GETON CONTAINERS**

# **1MWh Riga Photovoltaic Energy Storage Container for Aquaculture**





## Overview

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How can photovoltaic modules help the aquaculture industry?

Through installing photovoltaic modules on the water's surface, the aquavoltaic industry can simultaneously generate clean energy while maintaining aquaculture operations underneath.

How much electricity does aquaculture use?

Of all the aspects of maintaining aquaculture, aeration, pumping, and lighting are the largest consumers of electricity, accounting for 57 %, 24 %, and 12 % of the total energy consumption in fisheries, respectively.

What is photovoltaic infrastructure?

Photovoltaic infrastructure used in aquavoltaic systems, such as floating platforms and anchoring devices, can provide additional surfaces that facilitate the attachment and growth of carbon-sequestering marine organisms , thereby enhancing ecosystem carbon storage.

Do PV systems need a large-scale heat exchange process?

Unlike coal, natural gas, oil, biomass, and nuclear power, it's not essential for PV systems to have large-scale heat exchange processes, thereby conserving substantial amounts of additional cooling water to be preserved and prevents thermal pollution derived from the thermal power generation effluent.



## 1MWh Riga Photovoltaic Energy Storage Container for Aquaculture



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