New technology removes salt from water with the lowest energy consumption

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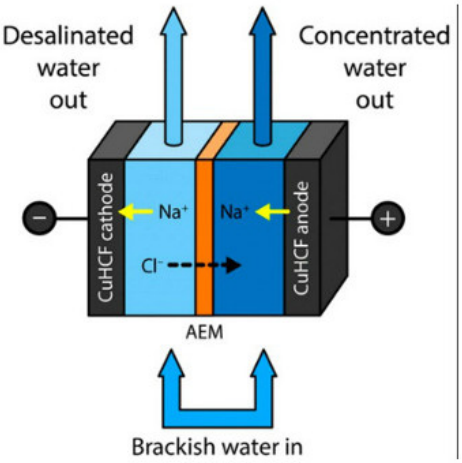
One of the researchers, Bruce Logan, a professor at Pennsylvania State University in the United States, said: "Globally, the situation of clean water is decreasing." More and more using countries are polluted by salt or other contaminants, but in the future we find it necessary to rely on less optimal water sources. In order to overcome this problem, Logan and his colleagues have proposed a desalination method called battery electrode dejonization (BDI).



Although the current configuration is not suitable for desalinating saltwater with extremely high salinity like seawater, the results published in the journal Environmental Science & Technology Letters show that BDI technology can be effective as a method. Salt filters consume low energy for brackish water, or slightly salty, ordinary water such as groundwater or for desalination before being put into treatment plants.

Logan says: *'The new method improves standard capacitance ionization techniques by eliminating the regeneration stage and reducing the voltage needed to complete this separation process'* .

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