transported to the salt plant; and

at the same time the heat energy of the sunlight is collected by the solar thermal apparatus and the heat transfer medium is utilized to heat the purified seawater, the heat energy of the heat transfer medium is stored in the solar energy heat storage tank so as to continuously heat the purified seawater using the stored heat transfer medium during nocturnal periods or cloudy days.

8. The method of claim 7, **characterized in that** the preset temperature of the purified seawater heated by the heat transfer medium is 55°C-70°C or 70°C-120°C, and the heat transfer medium is heated to a temperature of 178°C-600°C by the solar thermal apparatus.

9. The method of claim 7, **characterized in that** the preset temperature of the purified seawater heated by the heat transfer medium is 70°C, and the heat transfer medium is heated to the temperature of 275°C-395°C by the solar thermal apparatus.