

Near-Zero Carbon Sewage Ecological Treatment System and Method

5 The present application relates to a near-zero carbon sewage ecological treatment system and method, and falls within the technical field of sewage treatment and carbon neutral, and thus solves the problem that the existing sewage treatment method discharges a large number of greenhouse gases, and aggravates the influence of the greenhouse gas effect on the climate and environment. The near-
10 zero carbon sewage ecological treatment system comprises: a solar power supply system to provide electric energy for system operation; and a sewage ecological treatment system, comprising a sewage ecological treating tank, a plant carbon-sequestrating purification tank, and a recycling tank; wherein the sewage ecological treating tank comprises a water distribution layer, a filtering and purifying layer, a
15 water storage layer, and a sludge discharge layer arranged from top to bottom, the water distribution layer is connected to the sewage source, and the water storage layer is connected to the recycling tank; the plant carbon-sequestrating purification tank is provided with a plant carbon-sequestrating layer therein, the plant carbon-sequestrating layer is provided above the water distribution layer, the plant carbon-sequestrating layer is covered with a light-transmitting cover above, and a net carbon
20 plant is planted in the enclosed space formed by the light-transmitting cover. The present invention has a good effect on sewage purification treatment and near-zero carbon emission.

25 (Fig. 2)