

ABSTRACT

An object of the present invention is to secure a large amount of clean potable water in a short amount of time in cases in which water supply is cut due to a disaster, such as an earthquake, by facilitating movement of the mobile power generation/water purification system to a water source at the location of the disaster and driving a drive means using electric power supply from a photovoltaic power generation device as a power source.

10 The present invention is a mobile power generation/water purification system that includes, in a housing thereof: a photovoltaic power generation device; a battery that stores electricity generated by the photovoltaic power generation device; a control unit that receives electric power from the
15 battery; and a drive means that is controlled by the control unit and uses the battery as an electric power source. A water purification device is disposed inside the housing in a single flow path that can be connected to a suction hose and an outflow hose by respective connecting portions. The drive means of the
20 water purification device is a plurality of drive pumps. The drive pumps are electrically connected to the battery by respective conductive cables. The photovoltaic power generation device is a solar panel that is wound around a rotation shaft inside the housing. When housing is placed horizontally,
25 the solar panel can be pulled out directly in a horizontal

direction from a horizontally elongated cutout window of the housing.