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Design, simulation and experimental evaluation of energy system for an Unmanned Surface Vehicle

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ACCEPTED MANUSCRIPT

1	Design, simulation and experimental evaluation of
2	energy system for an Unmanned Surface Vehicle
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17	
18 19	HighlightsOptimal energy generation system is proposed, that generates 5.8 kWh a day
20	Unique design of mobile energy generator equipped with sun tracker
21	• The suitability of the power generation system is proved by experimental tests
22 23	 Photovoltaic array size optimized, considering every month radiation Hybrid vehicle, Needless Plug-in charge for doing tasks at sunny days
	Abstract
24	Abstract
25	Although fossil fuels are the world's most abundant, economical, and reliable
26	way for energy production, long-lasting usage, would cause serious issues and it is
27	well established in scientific circles as a serious event. On the other hand,
28	renewable energies play a key role as a substitute for energy production. The
29	environmental issues and depletion of fossil fuels have paved opportunities to

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