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Alternative energy sources for sustainable mobility in Adriatic marinas

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Abstract

One of the main sources of environmental pollution is maritime transport. Adriatic nautical marinas are the main tourism hubs for inward and outward mobility flows with huge negative environmental externalities, like CO_2 emissions, noise pollution and traffic congestion. Road and maritime transport are the most used and the most polluting ones. The challenge to decrease the environmental impacts of mobility activities gravitating around marinas could be effectively faced with more systemic, integrated and multimodal mobility services put in place. This research, which resulted from the Interreg project DEEP-SEA, aims to tackle the problems of predominant single-modality land transport (cars), highly polluting maritime transport (motor boats with endothermic engines) and limited integration of mobility services. The research, through the development of a model, based on a strong scientific knowledge and tested on field, wants to support Marinas Operators and Public Administrations in planning and implementing sustainable mobility using alternative energy sources. Planning will increase the offer of energy efficient mobility services, mainly e-mobility and shared mobility, and will lead marinas to tackle the increasing demand of ECS for e-boats and embedding microgrids.

Keywords: Adriatic Sea, CO_2 emissions, e-mobility, nautical marinas, alternative sources