The path towards sustainable e-mobility

by Ass.-Prof. Dr. Matevž Obrecht; on January 28, 2020 at 12:30 p.m.

The next ‘Science Talk’, which is organized by the Institute of Systems Sciences, Innovation and Sustainability Research, will be presented by Ass.-Prof. Dr. Matevž Obrecht (University of Maribor, Slovenia). His topic is “The path towards sustainable e-mobility” and his talk will take place on Tuesday, 28th of January 2020 at 12.30 pm in the meeting room of SIS (Merangasse 18, 1st floor).

Duration: Approximately one hour including discussion.

The participation is free of charge and there is no need to register.

SIS offers usually three guest talks each semester, covering its research areas systems sciences, innovation and sustainability research.

Bio-sketch

Matevž Obrecht is an assistant professor in the field of sustainable logistics and transportation on Faculty of Logistics, University of Maribor. His field of expertise covers environmental protection, renewable energy policy and supply, sustainable logistics, e-mobility, greening companies fleets and integrating life cycle thinking and eco-design principles into sustainable supply chain management. He participated in different international projects such as RECOAUD (environmental management in Russian companies), VALORGASs (valorisation of household wastes for biogas production), EDECON (promotion and dissemination of eco-design) and ERASMUS+ (internationally recognized master study on logistics). His research work was awarded twice with “The award for contribution to sustainable development of Slovenia”.

Abstract

Sustainable mobility is becoming one of the key priorities of the EU due to environmental, economic and socio-political reasons. Electric vehicles are seen as a cleaner transportation solution. Their “zero emission” concept is especially favorable for cities, but how clean are they actually? With transformation of transport sector towards new technologies, not just environmental but also social dimension is also gaining importance. However, average user’s perception is that electric vehicles are expensive, they can easily run out of energy and are tricky to recharge. Key issues the talk will be about are:

- Increasing future demand for transport
- Key challenges of personal e-mobility (price, range, infrastructure)
- How clean are EV? Review of different LCIA on ICE vs. EV findings
- Why is EU policy and car manufacturing sector so thrilled and focused towards e-mobility?
- What is missing on the path towards sustainable e-mobility?