

ECOLOGY AND ENERGY ASPECTS OF EXPLOITATION FULLY ELECTRICAL BUSES ON THE NEW LINE IN PUBLIC TRANSPORTATION IN BELGRADE

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ABSTRACT: Buses with fully electric drive are present in many cities of Europe, Asia and America. City of Belgrade and JKP GSP "Beograd" (City Public Transport Company" Belgrade"), following the positive experience of the public transport companies which have started the exploitation of buses with electric drive, will plan the beginning of the regular exploitation in September 2016, with 5 electrical buses on a new line EKO 1 (Vukov spomenik-"Belvil"). It will be the first step in a long-term strategy of using buses with electric drive.

This paper presents the first results and the effects of their use in the public transport in Belgrade in terms of exploitation, ecology and energy efficiency.

KEY WORDS: electric bus, public transportation, ecology, energy efficiency

EKOLOŠKI I ENERGETSKI ASPEKTI EKSPLOATACIJE AUTOBUSA NA ELEKTRIČNI POGON NA NOVOJ LINIJI U JAVNOM PREVOZU BEOGRADA

REZIME: Autobusi na čisto električni pogon prisutni su u mnogim gradovima Evrope, Azije i Amerike. Grad Beograd i JKP GSP "Beograd", sledeći pozitivna iskustva kompanija za javni prevoz koje koriste ovu vrstu autobusa, od 1. Septembra 2016.godine odpočeli su regularnu eksploataciju sa 5 autobusa na čisto električni pogon na novoj liniji EKO 1 (Vukov spomenik-"Belvil"). To je prvi korak u dugoročnoj strategiji korišćenja autobusa na električni pogon. U radu su prikazani prvi rezultati i efekti korišćenja u sistemu javnog prevoza u Beogradu sa aspekta eksploatacije, ekologije i energetske efikasnosti.

KLJUČNE REČI: električni autobus, javni prevoz, ekologija, energetska efikasnost

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