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EDITORIAL

Dear colleagues and colleagues,

A special edition of the *Journal of Energy* magazine is in front of you. The International Conference Medit Maint 2018 (May, 2018.) has presented a number of extremely interesting professional and scientific papers. The Editorial and Review Board has selected four especially interesting papers for publication in the special edition of *Journal of Energy* magazine based on the theme and excellence.

The work of young and experienced engineers and scientists is coming from neighboring Bosnia and Herzegovina under the title *Application of Spectral Current Analysis in Predictive Maintenance of Electric Motors*. Distinguished colleagues Saša Nikolić and Radoš Čalasan, in this really interesting work, address the possibilities offered by a spectral analysis of current and voltage in the maintenance of electric motors. Namely, the Motor Circuit Analysis (MCA) and Motor Current Signature Analysis (MCSA) are innovative non-invasive methods that enable diagnostics and evaluation of electric motor and machine status.

Very interesting and current work in the field of thermography called *Infrared thermography in maintenance of building applied photovoltaics* is signed by colleagues from town of Osijek - Hrvoje Glavaš, Držislav Vidaković, Željko Jeršek and Zorislav Kraus. This interdisciplinary work is so interesting that it is hard to distinguish from it. Therefore we refer to it as a whole and we recommend it for a compulsory and complete reading, both for designers, engineers and businessmen, as well as for scientists.

The paper entitled *Technical-economic aspects of the construction of small hydropower plants in the energy market environment* is signed by colleague Ivan Krnić. In this topical work, the technical aspects of construction and operation of small hydropower plants in the power system in the market environment are being discussed. In this context, a concrete example is the mission and vision of the construction of a small hydro power plant. Namely, as a result of the changes in the market environment of energy companies and of the political and regulatory decisions of the European Union, which put great emphasis on renewable energy sources and decentralized energy production, there is a division of the traditional energy value chain into an increasing number of market segments, creating opportunities for new specialized players. This creates competition in all phases of the value chain.

Every high-quality construction starts with the pencil of an experienced designer, which is once again proved by renowned colleagues Robert Raguž, Ante Mladinić, and Mario Nosić. In the technical aspect of the reconstruction of 35 kV and 10 (20) kV plants, they have analyzed, for example, the problem of reconstruction of shrunken transformers in the conditions of an increased number of electricity consumers. TS POSTIRA is designed to maintain the existing building gauge and to incorporate modern equipment with increased power.

HDO (Croatian Maintenance Society) associate Krešimir Brandt rounded off the theme with topics of the Conference MeditMaint 2018, which was devoted to new technologies for property maintenance and management at the European and global level. The lectures were attended by lecturers and participants from Croatia, Slovenia, Bosnia and Herzegovina, France, Luxembourg, Lithuania, Belgium, United States and Australia. Professors Dr. Igor Kuzle and Dr. Nedjeljko Štefanić from University of Zagreb and the guests from abroad Joel Levitt (Springfield Resources, USA), Frederick Beghain (EASA, Luxembourg), David Kreft (Mersen, France), Paul Daugalis (Hugaas, Lithuania), and Prof. Jadranka Polović and Sc. ing. Siniša Brajković from Croatia. Among other things, it was concluded that the Croatian economy is seriously stagnating in the global competitiveness agenda. In the future this can have far-reaching consequences. Today, competitiveness is closely related to the processes of automation, digitization and the use of information and communication technology in production. The long-term vision of the development of production, called Industry 4.0, is based on connecting online technologies, management, industrial drives and separate machines...

I hope you will find something interesting and useful for yourself in our small selection of themes and works. If we motivated you to publish your professional or scientific research in one of the following issues in the *Journal of Energy* magazine, we have fulfilled our mission.

Yours sincerely

Marija Šiško Kuliš

Editorial of the Special Edition of the *Journal of Energy*