

Journal of Energy

Scientific Professional Journal Of Energy, Electricity, Power Systems

Online ISSN 1849-0751, Print ISSN 0013-7448, VOL 63

Published by

HEP d.d., Ulica grada Vukovara 37, HR-10000 Zagreb

HRO CIGRÉ, Berislavićeva 6, HR-10000 Zagreb

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INTRODUCTION

Journal of Energy special issue: Papers from 3rd International Colloquium "Transformer Research and Asset Management"

Welcome to this special issue, which is based on selected papers presented at the 3rd International Colloquium "Transformer Research and Asset Management", held in Split, Croatia, on October 15th -17th, 2014.

The International Colloquium was organized by the Croatian CIGRÉ National Committee in cooperation with the Faculty of Electrical Engineering and Computing in Zagreb and the Centre of Excellence for Transformers in Zagreb with support from CIGRÉ A2 Study committee (Transformers). The goal of the Colloquium was to share latest research in the in the areas of distribution, power and instrument transformers.

The Colloquium extended over three days. Two CIGRÉ tutorials were offered to all participants. In total there were 160 participants from 22 countries. All of the 50 accepted papers were presented in oral sessions, out of that there were three invited lectures. Participants from manufacturers, utilities and universities took part in discussions.

All the papers were divided into three sessions

Numerical Modeling

- Electromagnetic field
- Coupled fields
- Transients
- Numerical modeling in design, etc.

Materials, Components and New Technologies

- Insulating material
- Magnetic material
- Transformer components
- Transformer new technologies, etc.

Transformer Life Management

- Monitoring
- Diagnostics
- Failures
- Asset management, etc.

From the 50 papers presented at the Colloquium, 29 papers were accepted for publication in Journal of Energy after having undergone the peer-review process. We would like to thank the authors for their contributions and the reviewers who dedicated their valuable time in selecting and reviewing these papers. We hope this special issue will provide you a valuable source of newest achievements in transformer technology.

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Končar Power Transformers

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