

Ministry of transport of the Russian Federation

ОАО Russian Railways

Federal Railway Transport Agency

Omsk State Transport University



International youth scientific and practical conference

# **Intelligent energetics in transport and industry**

4<sup>th</sup> and 5<sup>th</sup> of October 2018

Omsk

## **Conference topics**

**Section 1:** Prospects of the energy market development – EnergyNet and technologies “New and portable energy sources” within the implementation of the National technology Initiative.

The National technology Initiative (NTI) is a program of measures to create fundamentally new markets and conditions for Russia's global technological leadership by 2035. All directions of NTI are divided into two groups: "Markets" and "Technologies".

The work of the section is devoted to the discussion of technological solutions of EnergyNet market, ensuring the intellectualization and distributed nature of energy networks (Smart grid), the introduction of modern developments to improve energy efficiency in industry and transport.

### **Section 2: Creation of energy efficient vehicles and intelligent control systems for new modes of transport**

The work of the section is devoted to the discussion of the issues of creating processing systems for large amounts of data, machine learning and artificial intelligence that will enable the intelligent operation of new modes of transport in terms of the efficient use of energy resources.

### **Section 3: Eco-friendly energy engineering, energy saving technologies and devices**

The work of the section is devoted to the analysis of the ecological state in industry and transport, to the consideration of the transition to environmentally friendly and resource-saving energy, ways of transporting and storing energy.

### **Section 4: Energy security**

The work of the section is devoted to the analysis of the state of security of objects in transport and in the industrial sector and consideration of technological solutions to prevent potential social and political threats in the field of energy security.

### **Section 5: Digital economy is an effective tool for evaluating energy management activities**

The work of the section is devoted to the development of work of the section is devoted to the development of integrated digital platforms aimed at efficient management of energy saving to reduce the cost of energy resources used.

## **Guide to authors / Conditions of participations**

Young scientists (without a scientific degree; with a scientific degree of candidate of Sciences or PhD, whose age does not exceed 35 years on the date of the beginning of the event; with a scientific degree of doctor of Sciences, whose age does not exceed 39 years on the date of the beginning of the event), as well as managers and specialists of the transport industry, industry of domestic and foreign companies are invited to participate.

Each participant may submit one report without co-authors and one report in co-authorship. Participation in the conference without a report is allowed. It is possible to participate in absentia with the publication of the article in the conference proceedings.

### **Registration fee**

full-time participation in the conference is free;

absentee participation-100 \$ (for one report - article).

### **Organizing committee address**

35, Marx st., Omsk, 644046, the Russian Federation, Omsk State Transport University, department “Rolling stock of electric railways”. E-mail: [org.omgups@gmail.com](mailto:org.omgups@gmail.com).

**For participation in the conference, please contact:**

**Tel. / e-mail: + 7 (923) 671-45-33 / [org.omgups@gmail.com](mailto:org.omgups@gmail.com) -Kirill Ivanovich Domanov - Deputy Chairman of the conference organizing committee.**

**Cheremisin Vasily Titovich** - Director of the Research Institute of energy saving in railway transport OSTU, head of department "Rolling stock of electric Railways", chairman of the program committee of the conference – tel.: (3812) 31-34-19, railway tel.: 3-36-62;

**Istomin Stanislav Gennadevich** - Associate Professor of the Department «Rolling stock of electric railways», chairman of the conference organizing Committee – tel.: +7 (904) 072-52-91.

### **Deadlines**

Presentation of abstracts in English	27 <sup>th</sup> of April
The full text of the article should be submitted	20 <sup>th</sup> of August
The date of the conference	4 <sup>th</sup> and 5 <sup>th</sup> of October

### **The program committee requires**

- abstract in English by e-mail: [program.omgups@gmail.com](mailto:program.omgups@gmail.com);  
- initials and surname, title, abstract, keywords and text of the article in English in electronic form (on any media or by e-mail: [program.omgups@gmail.com](mailto:program.omgups@gmail.com)), the name of the file is determined by the name of the first author: surname.doc.

In the letter indicate the age of participants, the form of participation in the conference (face-to-face presentation, absentee participation, participation as a listener), as well as the section number.

### **Requirements for abstracts and papers**

The abstract and the article should contain UDC (in the upper left corner, usual, 14 pt), initials and surname (centered, 14 pt), title of the thesis report and the article (centered, capital letters, bold, 14 pt), abstract and key words (italic, justified, 12 PT);

the text of the abstract and the article should be typed in the editor Word, page size: A4 (210 × 297 mm);

margins, mm: top, inner and outside 20 mm, bottom 32;

font and size of the main text: Times New Roman; 14 pt.;

letters of the Latin alphabet are typed in italics, letters of the Greek and Russian alphabet - in direct font;

text in tables, captions and table names is typed in Times New Roman font, 14 pt;

line spacing 1.25 cm, indentation – 1.25 cm;

each picture should be additionally submitted in the original file (JPEG or TIFF format, resolution must not be lower than 300 pixels / inch);

drawings made in the Word editor must be inserted as an object;

references in the text of the abstract and the article are indicated in square brackets, the list of references has the title list of references (no more than 10 items).

The number of co-authors should not exceed three. The recommended volume of abstracts should not exceed 2 pages, articles 5 – 7 pages. Illustrations, diagrams, tables included in the text of the abstract and the article are taken into account in the total volume of the text.

Authors should avoid repeating the same data in tables, graphs and in the text of abstracts and articles.

At the end of the article specify information about the authors (surname, name, patronymic, age, academic degree and rank, organization with its postal address, job title, phone number, E-mail) in English.

Materials that are not in accordance with the above requirements, due to violation of the deadline, will not be accepted for publication and will not be returned.

The program committee reserves the right to edit the content of the article without the authors' consent.

## A sample of presentation of abstract and article

UDC 629.1

S.G. Istomin

### ANALYSIS OF TARGET INDICATORS OF ENERGY EFFICIENCY

*Abstract. Abstract. Abstract.*

*Key words:*

In the process of creating a regulatory legal base in the field of energy saving and energy efficiency ...

$$Symbol = \frac{symbol}{symbol}. \quad (1)$$

Reliable information for determining the main parameters are given in Table 1.

Table 1

#### Research results

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The types of energy resources are shown in Fig. 1.

Figure field
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Fig. 1. Types of energy resources

#### List of references

1. Cheremisin, V. T. Basic directions of realization of the Federal law "On energy saving..." No. 261-FZ dated 23.11.09 in the holding company "Russian railways" [Text] / V. T. Cheremisin, M. M. Nikiforov // proceedings of the TRANS-Siberian railway / the Omsk state University of Railways. - Omsk, 2010. - No. 2 (2). - Pp. 119-123.

#### INFORMATION ABOUT AUTHORS

**Istomin Stanislav Gennadevich (26)**

Omsk State Transport University (OSTU).

35, Marx st., Omsk, 644046, the Russian Federation.

Candidate of Technical Sciences, Associate Professor of the Department «Rolling stock of electric railways», OSTU.

Phone: +7 (3812) 31-34-19

E-mail: istomin\_sg@mail.ru