#### **LEARNING AND STUDENTS**

## Renewable energy in learning process

INRTU School of Power Engineering and Baikal School of BRICS offer more than 20 undergraduate, graduate and postgraduate educational programs. Moreover, all programs include courses on renewable and clean energy, as it is very important for Irkutsk region, where Angara Hydropower Stations Cascade is located.



#### **Educational opportunities for Undergraduates**

Undergraduates have the opportunity to take up a double degree course on Renewable Energy, studying one year at INRTU, and another one - at the Wroclaw University of Technology (Poland), gain good practical experience in the European country.



### **IEEE Power & Energy Society**

Institute of Electrical and Electronics Engineers Power & Energy Society (IEEE PES)

- International professional community of power and electrical engineers. Polytechnic students can join this community, become participants of online seminars, conferences around the world, get acquainted with international experience in the energy sector, and learn its trends.

#### **RESEARCH**

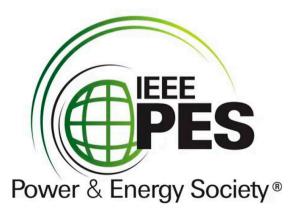
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# Electric power industry through the eyes of youth

In 2020, IRNTU became a platform for the All-Russian conference "Electric Power Industry through the eyes of youth".

Young scientists, students, postgraduates of the electric power industry have a great opportunity to make presentations, shared scientific achievements, practical results, and discussed the latest developments on affordability and clean energy.



#### **PUBLIC ENGAGEMENT**

### **Project Activities for Schoolchildren**

Our students developed and carried out both internal and remote All-Russian Energy Quiz for schoolchildren from more than 20 russian cities. These quizzes are aimed at raising awareness of the population about the activities of the fuel and energy sector, fostering a careful attitude to energy resources and respect for the work of power engineers.

# **Energy Efficiency Services**

Scientific and educational innovation center of INRTU "Energy Efficiency" offers high-quality energy audit services to enterprises, develops technical passports, implements technologies that increase the energy efficiency of production, and provides their technical support. Our qualified specialists of the Centre cooperates with many large manufacturing enterprises in Russia and abroad such as the Irkutsk Aviation Plant, the Angarsk Petrochemical Company (PJSC NK Rosneft), the oil refinery "Zarubezhneft" in Brod city (Bosnia and Herzegovina).

#### **OPERATIONS**

## **Energy efficient actions**

The University is improving additional energy management by metering devices installed in all buildings of the university campus, information from which is sent monthly to the central computer (automatic reading of metering devices). It allows to analyze water, heat, and energy consumption of each individual building included in the university campus.

# **Energy Efficient Appliances**

To maintain the energy-saving policy at University, motion sensors are installed and air conditioners and refrigerators with a high energy efficiency class are purchased. To analyze the efficiency of solar panels and weather stations, a Smart Grid Laboratory with all the necessary devices for collecting electric power parameters is successfully operating on the campus.



≈500 000 KW\*H PREVENTION
OF ELECTRICITY COSTS BY USING
«MOBILE ENERGY CONTAINER»
IN RECREATION CAMP
«POLYTECHNIC»





## **Energy Saving Leaders**

Annually the competition "Leaders of Energy Saving" is held for students, its main goal is: a thrifty attitude to electricity and water. Students are taught to be economical with resources at meetings of student assets, open lectures and during excursions at the regional demonstration center "Energy Saving and Energy Efficiency" located in the Technopark of IRNTU.





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ECO-FRIENDLY
AND ENERGY-SAVING
LED LAMPS