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## **ener2i Innovation Voucher Competition Belarus – 2. Call**

### **EXPERIMENTAL JUSTIFICATION**

### **OF THE PRINCIPLES OF ENERGY EFFICIENT TECHNOLOGY**

### **OF CONSTRUCTION LIME MANUFACTURING**

#### **Objective**

Construction lime is the largest raw material component in the production process of building materials. The development of energy efficient technologies for building lime manufacturing from local raw materials is an essential scientific task. The project aims at establishing new manufacturing of the first-class construction lime from carbonate (dolomite) raw material using a fundamentally new way: supercritical carbon-dioxide extraction.

#### **Expected outcomes**

- Calcium oxide extraction out of dolomite powder using supercritical carbon-dioxide extraction method under stable parameters
- Investigation of chemical purity and oxide activity of the obtained calcium in order to assess its potential possibility to be used as building lime

#### **Company name**

Private Trade Unitary Enterprise “Infostroykomplekt”

Registered address: 79-13 Golodeda way, Minsk, 220077, Belarus

#### **Research Partner**

Republican Innovative Unitary Enterprise “Science and Technology Park of BNTU “Polytechnic” (short: Technopark) is one of the leading R&D organizations within the structure of the Ministry of Education of the Republic of Belarus. It conducts up to 10–15 research, experimental, technological tasks annually. The organization also implements business contracts and separates innovative projects connected with introduction of BNTU developments into R&D and manufacturing departments of the Technopark.

#### **Company contact data**

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