

ORGREZ, a.s.,

Ambient air monitoring and fuel analysis division Proficiency Testing Group Budovatelů 2531, CZ 434 01 Most phone. +420 476 702 785, e-mail: szz@orgrez.cz



Proficiency Testing Group

proficiency testing provider no. 7014 accredited by ČIA in accordance with ČSN EN ISO/IEC 17043:2010

Information on proficiency testing programme: interlaboratory comparison of energy by-products in 2024

Dear employees of testing laboratories,

We would like to invite you to our forthcoming proficiency testing programme PT/EBP/2024. The proficiency testing programme is focused on testing laboratories performing energy by-product tests. The objective of this programme is to demonstrate the proficiency of accredited and non-accredited laboratories, including verification of used uncertainties of measurement.

The Proficiency Testing Programme

The object of PT/EBP/2024 is determination of

- · loss on ignition,
- · carbon content,
- chlorine content and
- mercury content.

The Test Items

Test items will be two analytic samples of energy by-products (slag and fly ash). These samples will be prepared in an accredited testing laboratory. All sample sets will be verified for homogeneity before distribution. After the competition of tests by laboratories, the stability of each sample set will be verified. The analyses for homogeneity and stability will be performed in an accredited testing laboratory.

The Time Schedule

Application of the laboratories	until 23. 2. 2024
Preparation and distribution of samples	until 15. 3. 2024
Carrying the tests and delivering results	until 26. 4. 2024
Statistical data analysis of results and delivery of the draft report (in PDF)	until 24. 5. 2024
Comments on the draft report	until 31. 5. 2024
Distribution of the final report (in PDF), the certificate of participation and	until 14. 6. 2024
QCMs	
Deadline for complains	until 14, 7, 2024

The Applications

The criteria for participation are only the timely submission of the complete application form, agreement with the conditions in the application form and the participation of a minimum of 7 laboratories. Please send the signed application to the Proficiency Testing Group in Most or electronically to the email szz@orgrez.cz. The application form and other information on our proficiency testing programmes can be found on our website: http://www.orgrez.cz/en/services/proficiency-testing/.

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The PT Programme Organisation

- Two samples (about 25 g each) will be distributed via postal service along with detailed instructions.
- It is possible to arrange another method of delivery.
- In case of non-delivery of samples on time according to the schedule, file a complaint with the PT provider.
- Samples will be marked with a unique numeric code in order to avoid improper agreements or falsifying the results.
- Each laboratory will receive only one set of samples and may submit only one set of results.
- Laboratories can use any method which they use by default. Separate evaluation of results according
 to methods is possible only with a sufficient number of results with the given method, otherwise this will
 be taken into account in the comments of the results.
- All results are required on the dry basis, ie in the state free of analytical moisture.
- Determination of all characteristics of the fuel, nor all samples in the programme is not mandatory. However, the price remains the same in this case.
- Laboratories will receive digital draft of final report on PT programme for comments.
- Once the draft of final report is published, the results received cannot be changed or deleted.
- Every laboratory will receive the certificate of participation, the individual evaluation of performance and one set of quality control materials (two samples about 50 g each).
- To protect the environment, the final report will also be provided to the laboratories electronically.

Evaluation

In accordance with the requirements of ČSN EN ISO/IEC 17 043, statistical methods with evaluation of success according to z-score or z'-score according to ČSN ISO 13528 will be used for evaluation of laboratory performance. A suitable robust average will be used as the assigned value, characterizing the given distribution of the set of values of laboratory results. In a possibly small number of laboratories, Horn's procedure will be used. The differences will be further compared with standardized values for reproducibility according to standards:

- ČSN ISO 1171 Solid mineral fuels Determination of ash
- ČSN ISO 29541 Determination of total carbon, hydrogen and nitrogen content Instrumental method
- ČSN 44 1393 Black and brown coals. Determination of mercury content
- ČSN ISO 587 Solid mineral fuels: Determination of chlorine using Eschka mixture

Results of PT programme evaluation

The results of the evaluation of the PT program will be included in the summary final report, in which they will be presented under the code numbers of individual laboratories. Each laboratory will receive The Certificate of Participation in the proficiency testing programme, including a separate evaluation. Participants from Czech and Slovak Republic will receive all documents in the Czech language, participants from other countries in the English language.

The Fee

The fee for participation in the programme PT/EBP/2024 is **11 900**,— CZK without VAT. The cost of transportation and any imposed taxes and other fees are not included and will be added according to reality. The fee also includes one set of quality control material weighting about 50 g. The price for additional quality control material is **590**,— CZK without VAT per sample. Each participant will receive an invoice after completing the programme. Payment in EUR will be charged according to the current CZK/EUR exchange rate on the day the invoice will be issued. If it is necessary for you to issue an order, please indicate the date of June 14, 2024 or later for invoicing purposes.

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Bank connection

Raiffeisenbank a.s. Hvězdova 1716/2b, 140 78 Praha 4

CZK account: 5014033535/5500 IBAN: CZ2655000000005014033535 EUR account: 5014033543/5500 IBAN: CZ0455000000005014033543

Protection of personal data

ORGREZ, a.s. processes personal data of business partners in accordance with Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016, effective on 25 May 2018, on the protection of individuals with regard to the processing of personal data and on the free movement of such data and repealing Directive 95/46/EC (GDPR) information on the processing of personal data of business partners is available on the website of ORGREZ, a.s., (http://www.orgrez.cz/about-us/gdpr).

Wishing you successful cooperation on behalf of the Proficiency Testing Group

Mgr. Jan Pomahač – Head of the Proficiency Testing Group
Michal Petrák – Coordinator of the Proficiency Testing Group
Ing. Miroslava Šindelářová – Quality manager of the Proficiency Testing Group

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