



Excellence Initiative – Research University
Priority Research Area
Energy Conversion and Storage

THE WARSAW UNIVERSITY OF TECHNOLOGY

Resolution No. 1/2024
of the Scientific Council of the Research Centre for POB Energy Conversion and Storage
of 22 January 2024

on the launch of the ENERGYTECHDEMO competition for research projects as part of the implementation of the “Excellence Initiative – Research University” programme at the Warsaw University of Technology and the announcement of the first edition of this competition

Pursuant to §7 section 2 items 2 and 3, in connection with §4 section 2 item 6 of the Regulations for Research Centres for Priority Research Areas (POB) of the Warsaw University of Technology, annexed to Decision No. 38/2020 of the Rector of the Warsaw University of Technology of 26 February 2020 on the establishment of Research Centres for Priority Research Areas (POB) as part of the implementation of the “Excellence Initiative – Research University” programme at the Warsaw University of Technology, it is resolved as follows:

§ 1

1. The ENERGYTECHDEMO competition for research projects, hereinafter referred to as “the ENERGYTECHDEMO competition”, is launched as part of the implementation of the “Excellence Initiative – Research University” programme at the Warsaw University of Technology.
2. The ENERGYTECHDEMO competition shall be realised under the principles set out in the Regulations annexed to the Resolution.

§ 2

1. The first edition of the ENERGYTECHDEMO competition is announced on 22 January 2024.
2. The closing date for applications shall be 23 February 2024.
3. The maximum time of the research project implementation shall be 21 months, from 1 April 2024 to 31 December 2025.

§ 3

The Resolution enters into force upon adoption.

Secretary of the Scientific Council
of the Research Centre for POB

Chairperson of the Scientific Council
of the Research Centre for POB

.....

.....



Excellence Initiative – Research University
Priority Research Area
Energy Conversion and Storage

Annex to Resolution No. 1/2024 of the
Scientific Council of the Research Centre for
POB Energy Conversion and Storage
of 22 January 2024

REGULATIONS FOR THE FIRST EDITION OF THE ENERGYTECHDEMO COMPETITION of the Research Centre for POB Energy Conversion and Storage

§ 1

1. The primary goal of ENERGYTECHDEMO research and development projects is to develop a product or process innovation demonstrator for one of the seven links in the energy generation, conversion, and storage chain, i.e.:
 - 1) High-temperature co-electrolysis
 - 2) A thin-film ceramic lithium cell and a post-lithium-ion galvanic cell
 - 3) A thin-film photovoltaic cell
 - 4) High-efficiency propulsion of a vehicle, aircraft, or ship with reduced content of rare earth metals
 - 5) An energy conditioning and/or management system in a power electronic system with electrochemical energy storage
 - 6) Decarbonisation of the gas grid
 - 7) Fuel cell with power electronic interface in mobile applications
2. The budget for the ENERGYTECHDEMO competition is PLN 2.8 million, with a maximum budget of PLN 400,000 per research project.
3. The project must be implemented by at least two or a maximum of three research teams, from at least two faculties of the Warsaw University of Technology. A research team shall mean a group of people employed/conducting research as part of the same division/chair/institute of the given faculty of the Warsaw University of Technology.
4. The head of the project with research project implementers shall declare and achieve a TRL level of technology readiness of the demonstrator of at least level 6 - demonstrating a prototype or model of a system or technology subsystem in near real-life conditions. Research at this level includes tests of the prototype under laboratory conditions replicating real conditions with high fidelity or under simulated operational conditions.
5. The head of the project with research project implementers shall declare to fulfil at least one of the obligatory indices listed below and to achieve all the declared obligatory indices corresponding to the indices of the “Excellence Initiative - Research University” programme, hereinafter referred to as “IDUB programme”, i.e.:
 - 1) Submission of an application for external funding, including with an industrial partner or with leading foreign universities and/or scientific institutions, which has passed at least a formal evaluation, preferably as part of an international programme, for an amount of at least twice the funding obtained under the POB grant.



Excellence Initiative – Research University
Priority Research Area
Energy Conversion and Storage

- 2) Establishment of cooperation with industrial partners resulting in obtaining funding for research in the form of a research contract, in accordance with Regulation No. 143/2020 of the Rector of the Warsaw University of Technology of 20 November 2020 for an amount at least equal to the funds obtained under the POB grant.
- 3) Granting a licence for the use of the invention/know-how of the developed product or process innovation for a minimum amount of the funding obtained under the POB grant for a calculation period of up to 10 years from the date of completion of the POB grant.
6. The head of the project with research project implementers may declare additional optional indices to be achieved, which they are obliged to achieve, corresponding to the IDUB programme indices, among others, i.e.:
 - 1) Publication of papers in scientific journals from the upper decile, according to the CiteScore of the Scopus database, in accordance with the list published in the announcement of the competition, or reviewed conference publications for 200 points from the current MNiSW list.
 - 2) Establishing or developing cooperation with leading foreign universities and/or scientific institutions culminating in scientific publications as part of international cooperation.
 - 3) Submitting an application for patent protection for the developed product or process innovation.
 - 4) Integration of the demonstrator with the electrical power infrastructure of the Warsaw University of Technology.

§ 2

1. The applicant/head of the project must be a staff member employed at the Warsaw University of Technology as the primary place of employment, excluding members of the Scientific Council of CB POB Energy. A prerequisite is to submit the declaration of the assignment to the N number by the head of the project at the Warsaw University of Technology.
2. The applicant/head of the project may not be the head of the project that obtained funding in any other competitions for research grants as part of the IDUB project whose implementation date expired before 30 November 2023, and who on the day of submitting the application did not achieve the assumed project outcomes.
3. The applicant may submit only one application as part of the given edition of the ENERGYTECHDEMO competition.
4. The application for a research project prepared in accordance with the template in Annex No. 1 to the Regulations shall be submitted electronically using the online form available on the website www.badawcza.pw.edu.pl.



§ 3

1. Applications referred to in § 2 section 4 shall be evaluated by the Scientific Council of CB POB Energy Conversion and Storage, or reviewers nominated by the Chairperson of the Scientific Council of CB POB Energy.
2. The Chairperson of the Scientific Council of the CB POB Energy Conversion and Storage shall nominate at least two reviewers to evaluate the application from the Scientific Council or from outside the Council.
3. Reviewers of applications shall be selected to avoid conflicts of interest and to ensure the objectivity and impartiality of the evaluation.
4. Reviewers may not be in such a legal or factual relationship with the head of the project and implementers that it may raise reasonable doubts about the impartiality of these persons.
5. The names of the reviewers must not be disclosed to the head of the project and the implementers of the research project.
6. The criteria for the application evaluation shall include:
 - 1) Innovation level (innovation at least on the Polish market scale) in relation to products (products or services) or business processes available on the Polish market (up to 10 points - innovation on the Polish market scale; up to 20 points - innovation at least on the European market scale).
 - 2) Market demand for the innovation (up to and including 20 points).
 - 3) The quality of the research plan and the manner in which the technology has been demonstrated, including the integration of the demonstrator into the infrastructure of the Warsaw University of Technology (if applicable) and the declared TRL level of the demonstrator in the range 6-8 (up to and including 30 points).
 - 4) The possibility of achieving the measurable outcomes of the IDUB programme as referred to in § 1 section 5 and § 1 section 6 (up to and including 10 points).
 - 5) The scientific output of the head of the project and the main project implementers, with particular emphasis on cooperation with the business environment, including implementation work (up to and including 15 points).
 - 6) The justifiability of the planned costs of the project implementation (up to and including 5 points).
7. The evaluation of the application shall consist of two stages:
 - 1) The first stage consists of evaluating each application by at least two reviewers. A maximum of three most highly rated applications are forwarded to the second stage (the average score of two reviews expressed by the natural number of points is considered), for a given link in the energy generation, conversion, and storage chain as referred to in § 1 section 1, which have received at least 60% of the possible score. The applicants shall be immediately informed whether the application qualifies or not for the second stage of evaluation via email.
 - 2) The second stage involves agreeing by the Scientific Council of CB POB Energy Conversion and Storage on the final evaluation (according to the criteria and scores set



Excellence Initiative – Research University
Priority Research Area
Energy Conversion and Storage

out in section 6) and preparation of a joint ranking list for all links listed in § 1 section 1. At this stage, the Scientific Council of CB POB Energy Conversion and Storage may decide on the form of a seminar presentation of applications before their final evaluation.

8. Applications with the highest scores, a maximum of two per a given link, whose total budget does not exceed the pool of funds allocated to the competition in accordance with § 1 section 2 shall be eligible for funding.
9. The lists of applications eligible for funding (including the applicant's name, the faculty from which the applicant comes, the title of the project, and the amount of funding) will be published on the website www.badawcza.pw.edu.pl by 15 March 2024, together with the joint ranking list of applications referred to in section 7 item 2.
10. Reviews of applications shall be sent after the evaluation process of all applications to applicants whose applications were rejected for funding. Reviews of applications that are eligible for funding shall be made available upon written request of applicants.

§ 4

1. The principles of the use of funds allocated for the implementation of the project according to the submitted application are set out in Annex No. 2 to the Regulations.
2. The condition for commencing the implementation of the project is to sign the Agreement according to the template in Annex No. 3 to the Regulations, and the unit indicated in the application for a project shall become the Implementing Unit.
3. Agreements with units shall be prepared by the "IDUB Project Office".

§ 5

1. The implementation of the project shall undergo mid-term evaluation based on the submitted intermediate report according to the template in Annex No. 4 to the Regulations and the presentation of the results achieved at a seminar organised by CP POB Energy Conversion and Storage after 12 months from the commencement of the project.
2. The final report based on the template in Annex No. 4 to the Regulations must be submitted to the head of CB POB Energy Conversion and Storage through the IDUB Project Office within 2 months of the completion of the project.
3. The project execution shall be evaluated by a committee appointed by the Scientific Council of CB POB Energy Conversion and Storage. At least two of the members of the Committee shall be members of the Scientific Council of POB Energy Conversion and Storage. The result of the evaluation shall be included in the record based on the template in Annex No. 5 to the Regulations.
4. When the need arises and in consultation with the Head of IDUB, projects may be subject to ad hoc control at the request of the head of CB POB, consisting of submitting additional explanations/reports regarding the compliance of the material or financial side with the application approved for co-financing and the conditions described in the agreement for the implementation of the project.



Excellence Initiative – Research University
Priority Research Area
Energy Conversion and Storage

5. Employees, doctoral students, and students at WUT shall use the affiliation with the *Warsaw University of Technology*. All publications, presentations, and conference reports prepared as part of the project shall be signed as follows:
“Research was funded by POB Energy of the Warsaw University of Technology within the Excellence Initiative - Research University (IDUB) programme, or „Badania były finansowane przez POB Konwersja i Magazynowanie Energii ze środków Politechniki Warszawskiej w ramach Programu Inicjatywa Doskonałości – Uczelnia Badawcza (IDUB)”.
6. Failure to achieve the assumed outcomes of the project shall exclude the head of the project from applying for projects within all subsequent competitions of all CB POB as part of the IDUB project. Application for project funding shall be possible only after achieving the outcomes declared in the previously implemented project.
7. All matters unregulated herein shall be settled by the Vice-Rector for Development.

§ 6

Under Article 13 of the Regulation (EU) 2016/679 of the European Parliament and of the European Council of 27 April 2016 on the protection of natural persons concerning the processing of personal data and the free movement of such data and repealing Directive 95/46/EC (General Data Protection Regulation, Journal of Laws EU L 119/1 of 4 May 2016), hereinafter referred to as “GDPR”, the Warsaw University of Technology announces that:

- 1) The administrator of your personal data is the Warsaw University of Technology with its registered seat at pl. Politechniki 1, 00-661 Warsaw.
- 2) The administrator has appointed the Inspector for Data Protection (IOD - Inspektor Ochrony Danych), who ensures that the data are processed lawfully and can be contacted via email: iod@pw.edu.pl; iod@pw.edu.pl.
- 3) The administrator shall process the personal data included in the application for the project and intermediate and final reports on the project implementation.
- 4) The administrator shall process your personal data to realise the 04/IDUB/2019/94 agreement concluded on 30 December 2019 – under Article 6 section 1 point b) of GDPR.
- 5) The Warsaw University of Technology shall not transfer your data outside the European Economic Area.
- 6) You shall have the right to access your personal data, the right to request the correction or deletion of the data, the right to request a restriction to process your personal data, and object to processing your data. Since the data are not processed based on your consent, the right to data portability does not apply.
- 7) Your personal data shall not be disclosed to any other entities (administrators) except for the entities entitled, in compliance with generally applicable laws.
- 8) Entities (processing entities) commissioned by the Warsaw University of Technology to perform actions that may relate to personal data processing may have access to your personal data.



Excellence Initiative – Research University
Priority Research Area
Energy Conversion and Storage

- 9) The Warsaw University of Technology shall not subject you to automated decision-making, including your profiling.
- 10) You shall provide your personal data voluntarily. Nevertheless, failure to do so renders it impossible to obtain funding for a research grant as part of CB POB competitions.
- 11) Your personal data shall be processed for the period compliant with the “A” archive category of the documentation.
- 12) If you think your data protection rights as specified in GDPR have been violated, you have the right to lodge a complaint to a supervising body – the Polish Data Protection Commissioner.



Excellence Initiative – Research University
Priority Research Area
Energy Conversion and Storage

Annex No. 1 to Regulations

**Application for a research project as part of the first edition of the ENERGYTECHDEMO
competition
of the Research Centre for POB Energy Conversion and Storage**

1. KEY DATA

1) Data of the applicant (head of the project):

First name, surname, academic title/degree, position, place of employment, represented scientific discipline in which the applicant is included in the N number

2) A list of research teams:

a) First research team:

- Faculty of the Warsaw University of Technology
- First name and surname of the head of the team, academic title/degree, position, place of employment, represented scientific discipline in which the applicant is included in the N number
- A list of names of key implementers (first name, surname, academic title/degree, position, place of employment, represented scientific discipline)
- Information about the number of other implementers including their status (e.g. doctoral students - 3 persons)

b) Second research team:

- Faculty of the Warsaw University of Technology
- First name and surname of the head of the team, academic title/degree, position, place of employment, represented scientific discipline in which the applicant is included in the N number
- A list of names of key implementers (first name, surname, academic title/degree, position, place of employment, represented scientific discipline)

c) - Information about the number of other implementers including their status (e.g. doctoral students - 3 persons)

3) Third research team:

- Faculty of the Warsaw University of Technology
- First name and surname of the head of the team, academic title/degree, position, place of employment, represented scientific discipline in which the applicant is included in the N number
- A list of names of key implementers (first name, surname, academic title/degree, position, place of employment, represented scientific discipline)
- Information about the number of other implementers including their status (e.g. doctoral students - 3 persons)

4) Project title: in Polish and English

5) Project summary in Polish (up to 400 words)

6) Project summary in English (up to 400 words)



Excellence Initiative – Research University
Priority Research Area
Energy Conversion and Storage

2. **PROJECT DESCRIPTION**

1) Project objective

(Please provide a brief description of the planned objective to be achieved as a result of the project implementation; **up to ½ of a page, font 11 pt.**)

2) Description of product/process innovation planned to be developed as part of the project

a) Innovation type: product innovation/process innovation

(Please choose as appropriate)

b) Description of innovation

(Please demonstrate that the outcome of the project, i.e. the innovation demonstrator, is characterised by novelty at least on the Polish market scale, which means it differs significantly from products (products or services) or processes available on the Polish market in terms of its new features and functionalities. Describe these key features or functionalities that determine its advantage in relation to the current (own - if it is the best on the market or competitive) offer on the market. Indicate the product/process to which you are comparing yourself (In the case of a product, please provide its name and manufacturer. In the case of a process, please provide its name and indicate where it is used); **up to 3 pages, font 11 pt.**)

c) Indices regarding the features/functionality of the product innovation/process innovation

(Please provide at least one and up to five indices with which you have identified new functionalities and features of the innovation of the researched one in comparison to solutions available on the market. Each key functionality/feature stated in the innovation description must be reflected in the form of a numerical index with a value no less than that of the solution available on the market to which the applicant refers.)

- Index name:

- Measurement unit:

- Base value:

(The value of a given feature/functionality in a commercially available product/process to which the innovation level of the product/process applies.)

- Target value:

(The value to be achieved as part of the project.)

- Description of the methodology of calculating the indicator and how the achievement of the planned indicator values will be verified:

(The index must have a measurable and verifiable value at the end of the project.)

3) Market demand for innovation

(Please identify the main groups of recipients of the project outcome.

Characterise those groups, referring to such of their characteristics that are important for the possibility of implementing the innovation. Please refer specifically to their size/number, needs, expectations, preferences, and capabilities.

Characterise the target group as narrowly as possible. Focus on the needs of the recipients directly interested in the product in question.

Up to 1 page, font 11 pt.)

4) Research plan

a) Timetable of project implementation

(Please describe what the starting point for developing the demonstrator is - the technology and solutions you have.



Excellence Initiative – Research University
Priority Research Area
Energy Conversion and Storage

Describe the research plan - the tasks - you intend to undertake to develop the demonstrator, with a breakdown of the alliance members.

Please provide the technical parameters of the demonstrator.

Describe how you will verify the achievement of the indices on the features/functionality of the product innovation/process innovation.

Up to 3 pages, font 11 pt.)

b) Declared TRL level of the demonstrator: 6/7/8

(Choose as appropriate.

TRL 6: - A demonstration of a prototype or model of a system or technology subsystem under near real-world conditions was performed. Research at this level includes tests of a prototype under laboratory conditions replicating real-world conditions with high fidelity or under simulated operational conditions.

TRL 7: A demonstration of the technology prototype under operational conditions was made. The prototype is almost at an operational system level. This level represents a significant advance on Level 6 and requires demonstration that the technology under development is operationally feasible. Research at this level includes tests of prototypes on the so-called research platforms.

TRL 8: Research and demonstration of the final form of the technology was completed. This means that it is confirmed that the target level of the technology is achieved, and the technology can be used under the conditions anticipated for it. This level practically represents the end of the demonstration.)

c) Integration of the demonstrator into the infrastructure of the Warsaw University of Technology

(Please describe if and how you plan to integrate the demonstrator into the infrastructure of the Warsaw University of Technology.

Up to ½ of a page, font 11 pt.)

5) Declaration of measurable outcomes of the implementation of the research project

Obligatory indices:

No.	Type of outcome	Declared value (0/1)	Comments (e.g. type and date of the competition in which the grant application will be submitted)
1	Submission of an application for external funding, including with an industrial partner or leading foreign universities and/or scientific institutions, which has passed at least a formal evaluation, preferably as part of an international programme, for an amount of at least twice the funds obtained under the POB grant		
2	Establishment of cooperation with industrial partners culminating in obtaining funding for research in the form of a research contract in accordance with Regulation No. 143/2020 of the Rector of the Warsaw University of Technology of 20 November 2020 for the minimum amount of funds obtained under the POB grant		
3	Granting a licence for the use of the invention/know-how of the developed product or process innovation for a minimum amount of the funds obtained under the POB grant for a calculation period of up to 10 years from the date of completion of the POB grant		



Excellence Initiative – Research University
Priority Research Area
Energy Conversion and Storage

Optional indices:

No.	Type of outcome	Declared value	Comments (e.g. a succinct description of the outcome nature, including patents, information about the type and number of publications, and planned journals)
1	Declared number of publications of papers in scientific journals from the upper decile according to CiteScore of the Scopus database or reviewed conference publications for min. 200 points from the current list of the Ministry of Science and Higher Education (MNiSW)) (at least acceptance of the paper for publication is required) including international cooperation		
2	Establishment or development of cooperation with leading foreign universities and/or scientific institutions culminating in scientific publications in international cooperation (not included in item 1; at least acceptance of the paper for publication is required)		
3	Submission of a patent application for the developed product or process innovation		
4	Integration of the demonstrator into the infrastructure of the Warsaw University of Technology		

- 6) The scientific output of the head of the project:
(Data of the head for 2019-2023 **(up to 1 page)**, including:
- A list of best publications, up to 5
- A list of current projects, indicating the functions performed in them
- A list of completed projects in which the applicant was the head
- The cooperation with the economic environment, including a list of implementations)
- 7) The scientific output of members of the first research team:
a) The scientific output of the head of the project:
(Data for 2019-2023 **(up to ½ of a page)**, including:
- A list of best publications, up to 5
- The cooperation with the economic environment, including a list of implementations)
b) The scientific characteristics of the key implementers
(up to ½ of a page)
- 8) The scientific output of members of the second research team:
a) The scientific output of the head of the project:
(Data for 2019-2023 **(up to ½ of a page)**, including:
- A list of best publications, up to 5
- The cooperation with the economic environment, including a list of implementations)
c) The scientific characteristics of key implementers
(up to ½ of a page)
- 9) The scientific output of members of the second research team:
a) The scientific output of the head of the project:
(Data for 2019-2023 **(up to ½ of a page)**, including:
- A list of best publications, up to 5



Excellence Initiative – Research University
Priority Research Area
Energy Conversion and Storage

- The cooperation with the economic environment, including a list of implementations)

d) The scientific characteristics of key implementers
(up to ½ of a page)

10) Information on possible ethical issues arising in the planned research.
(up to ½ of a page)

I declare that the research planned in the application is not and has not been financed from other sources.

By submitting this application, I acknowledge that, if funding is granted, the name of the head of the project, as well as the title of the project, will be made public in the competition information and result.

3. DECLARATIONS OF APPLICANT

- 1) I declare that I am employed at the Warsaw University of Technology as my primary place of employment.
- 2) I declare that I have submitted a declaration of assignment to the N number to the Warsaw University of Technology.
- 3) I declare that I am not the head of the project that was awarded research grants in any of the competitions of the IDUB programme and whose deadline for implementation expired before 30 November 2023 and that did not achieve the assumed outcomes of the project.
- 4) I declare that I submitted only one application in the first edition of the ENERGYTECHDEMO competition of the POB Research Centre for Energy Conversion and Storage.

.....

(signature of applicant)

.....

(stamp and signature of head of unit)



Excellence Initiative – Research University
 Priority Research Area
 Energy Conversion and Storage

Project timetable and cost estimate (in accordance with the template – Table 1 or 1a) including the justification for direct costs of the project (Excel with automatic surcharge calculation)

Project timetable – please provide a list of tasks for individual units including the time slot for the task implementation

Table 1: Project cost estimate for two research teams from two WUT units*

No.	Planned costs	2024			2025			Total			
		Unit 1	Unit 2	Total	Unit 1	Unit 2	Total	Unit 1	Unit 2	Total	
I.	Total direct costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1	Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	including	with a value from PLN od 3,500 to PLN 10,000			0.00			0.00	0.00	0.00	0.00
		with a value over PLN 10,000			0.00			0.00	0.00	0.00	0.00
2	Remuneration with related items			0.00			0.00	0.00	0.00	0.00	
3	Other direct costs			0.00			0.00	0.00	0.00	0.00	
II.	Indirect costs (15%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
III.	Total costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Table 1a: Project cost estimate for three research teams from three WUT units*



Excellence Initiative – Research University
 Priority Research Area
 Energy Conversion and Storage

No	Planned costs	2024				2025				Total			
		Unit 1	Unit 2	Unit 3	Total	Unit 1	Unit 2	Unit 3	Total	Unit 1	Unit 2	Unit 3	Total
I.	Total direct costs	I.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	Equipment		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	incl				0.00				0.00	0.00	0.00		0.00
	udi												
	ng				0.00				0.00	0.00			0.00
2	Remuneration with related items				0.00				0.00	0.00	0.00	0.00	0.00
3	Other direct costs				0.00				0.00	0.00	0.00	0.00	0.00
II.	Indirect costs (15%)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
III.	Total costs		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

*Choose the appropriate table

Substantive justification for item I – please justify costs of remuneration, purchase of equipment and materials for individual units



Excellence Initiative – Research University
Priority Research Area
Energy Conversion and Storage

.....

(signature of applicant)

.....

(stamp and signature of Bursar's representative)

.....

(stamp and signature of head of unit)



Principles of financing CB POB projects

1. The funds allocated to the project may be used for:
 - 1) Research equipment
 - 2) Remuneration – a maximum of 75% of direct costs included in the amount of funding:
 - a) Remuneration of project implementers who are employees of the Warsaw University of Technology may be paid under a job contract or based on allowances for project work calculated on an hourly basis or in a lump sum, in accordance with the Remuneration Regulations in force at the Warsaw University of Technology.
 - b) Remuneration of implementers who are not employees of the Warsaw University of Technology, including students and doctoral students, who are paid under civil law contracts.
 - 3) Other costs:
 - a) Materials and reagents, small laboratory equipment, external services, etc.
 - b) Costs of proofreading and publication of research results in a renowned publishing house or journal
 - c) Trips to conferences (only related to the presentation of results) and several-day (up to 7 days) study visits in Polish and foreign centres
 - d) Other costs justified by the scope of the project
2. The minimum percentage contribution of a single team to the project budget shall be 25% for a project conducted by two research teams and 20% for a project conducted by three research teams.
3. The monthly limit of remuneration received in total from all projects conducted as part of all ongoing editions of the competitions for research grants as part of the IDUB programme cannot exceed PLN 3,500 gross per implementer (including no more than PLN 2,500 for persons involved in the implementation of a project selected within the competitions for research grants under the IDUB programme) and PLN 4,000 for the head of the project, including no more than PLN 3,000 for persons involved in the implementation of a project selected as part of the competitions for research grants under the IDUB programme). If the remuneration in the project is variable, the monthly remuneration shall be the average over the entire period of involvement in the research project (the months in which the limit is reached are not considered when calculating the average).
4. The indirect costs shall amount to 15% of direct costs, divided into 5% of overhead costs and 10% of faculty costs, in accordance with Regulation No. 12/2019 of the Rector of the Warsaw University of Technology on the principles, methodology, and indices used in settling general and faculty costs at the Warsaw University of Technology, excluding equipment with a unit value of more than PLN 10,000.
5. Changes to the project cost estimate:
 - 1) If amendments in the cost categories of the project cost estimate become necessary, the amount of funding awarded may not be increased.



Excellence Initiative – Research University
Priority Research Area
Energy Conversion and Storage

- 2) Any transfer of funds between categories must not violate the value limits of particular categories introduced in the competition regulations (if applicable).
 - 3) Transfers of funds between cost categories planned in the application up to a total of 15% of the “Total direct costs” as compared to the original value indicated in the cost estimate shall not require the approval of the head of CB POB.
 - 4) Transfers of funds between annual periods shall not require the approval of the head of CB POB.
 - 5) Changes that do not require the approval of the head of CB POB must be reported to the IDUB Project Office in writing or electronically.
 - 6) Transfers of funds between cost categories planned in the application above a total of 15% of the “Total direct costs” as compared to the original value indicated in the cost estimate shall require the approval of the head of CB POB and the conclusion of an annex to the agreement in the scope of the project cost estimate constituting Annex No. 2 to the agreement.
6. For each research team:
- 1) Accounting records of project costs for internal subcontracting shall be kept on separate orders.
 - 2) The basis for the creation of an assignment in SAP shall be an internal agreement between the applicant's parent unit, which has received funding for the project, and the unit to which the implementation of part of the tasks is delegated.
 - 3) A copy of the internal agreement shall be forwarded immediately to the IDUB Project Office.



Excellence Initiative – Research University
Priority Research Area
Energy Conversion and Storage

Annex No. 3 to Regulations

**AGREEMENT No. (number given by the IDUB Project Office)
on the execution of research projects selected in the first edition of the ENERGYTECHDEMO
competition announced by the Scientific Council of the Research Centre for POB
Energy Conversion and Storage
financed as part of the “Excellence Initiative– Research University” Programme implemented
at the Warsaw University of Technology**

concluded on between:

Professor Małgorzata Lewandowska - Head of the Management Team for the “Excellence Initiative– Research University” project at the Warsaw University of Technology,
hereinafter referred to as the “Head of IDUB”

and

«Name of the unit »:

«Head of the unit » - «Function of the Head of the unit»,
hereinafter referred to as “Implementing Unit”.

1. The Head of IDUB shall transfer funds to the Implementing Unit, amounting to PLN «Total amount» (in words PLN «Amount in words»), for the implementation of research projects selected in the first edition of the ENERGYTECHDEMO competition announced by the Scientific Council of the Research Centre for POB Energy Conversion and Storage in accordance with the list attached as Annex No. 1 to the Agreement.
2. The Implementing Unit shall perform work described in competition applications, which are an integral part of this Agreement, in accordance with:
 - 1) Generally applicable laws
 - 2) Provisions of this agreement
 - 3) Principles arising from the competition documentation including terms and conditions of the ENERGYTECHDEMO competition
 - 4) The information included in the application for funding as part of the first edition of the ENERGYTECHDEMO competition for research projects
 - 5) Internal regulations applicable at the Warsaw University of Technology
3. The date of commencement of the implementation of the project(s) is set by the parties on....., and the maximum implementation time of the project(s) may not exceed 21 months, i.e. until The period of implementation and completion of individual projects under this Agreement is specified in Annex No. 1 to the Agreement.
4. The calculation of the costs of the project(s) under this Agreement constitutes Annex No. 2 to the Agreement.
5. The funds allocated for the project implementation shall be at the disposal of the head of the Implementing Unit in consultation with the head of the project.



Excellence Initiative – Research University
Priority Research Area
Energy Conversion and Storage

6. The Implementing Unit shall make available any items of property of the unit indispensable for the implementation of the project and shall provide administrative and accounting services.
7. The Implementing Unit shall keep separate accounting records for the project, in compliance with the principles specified by the WUT Bursar in Letter No. 290/KK/2020 of 20 May 2020 and KK-453/2020 of 25 August 2020.
8. Funds transferred to the Implementing Unit and unused until the «Completion _date» shall return to the Head of IDUB.
9. The approval of the outcomes of the project implementation shall be granted by a committee appointed by the Scientific Council of the Research Centre for POB Energy in a mode specified in the Regulations for the competition.
10. Any amendments to the provisions of this Agreement shall require concluding an annex in writing.
11. Annexes to this Agreement shall constitute its integral part.
12. This Agreement has been executed in two counterparts, one for each Party.

Annexes:

- 1) A list of research projects eligible for funding
- 2) Project cost estimates: ...
- 3) Applications for research projects as part of the first edition of CB POB:

Head of IDUB

Implementing Unit

.....
(stamp of IDUB Project Office)

.....
(stamp of unit)

.....
(stamp and signature of Head of IDUB)

.....
(stamp and signature of head of unit)

.....
(stamp and signature of Bursar's
representative)

.....
(stamp and signature of Bursar's
representative)



Excellence Initiative – Research University
Priority Research Area
Energy Conversion and Storage

Annex No. 1 to Agreement

A list of projects eligible for funding (under the agreement)

No.	Applicant (title/degree name and surname)	Project title	Budget	Implementation time (in months)	Date of project completion
1.					
2.					

.....
stamp and signature of head of CB POB



Excellence Initiative – Research University
 Priority Research Area
 Energy Conversion and Storage

Annex No. 2 to Agreement

Project cost estimate
 (by unit – Table 1 or 1a)

title:

headed by:

No.	Planned costs	2024	2025	Total
I.	Total direct costs	0.00	0.00	0.00
1	Equipment	0.00	0.00	0.00
	including with a value from PLN od 3,500 to PLN 10,000			
	with a value over PLN 10,000			
2	Remuneration with related items			
3	Other direct costs			
II.	Indirect costs (15%)	0.00	0.00	0.00
III.	Total costs	0.00	0.00	0.00

Head of IDUB

Implementing Unit

.....
 (stamp and signature of Head of IDUB)

.....
 (stamp and signature of head of unit)

.....
 (stamp and signature of Bursar's representative)

.....
 (stamp and signature of Bursar's representative)

Declaration of the Head of the project

I hereby oblige myself to implement the project in compliance with the description and timetable presented in the submitted application for a research project, constituting an integral part of this Agreement, the aforementioned estimated project costs, and other provisions of this Agreement.

.....
 (signature of head of project)



Excellence Initiative – Research University
 Priority Research Area
 Energy Conversion and Storage

Annex No. 4 to Regulations

**TEMPLATE FOR INTERMEDIATE/FINAL* REPORT
 on the implementation of the research project submitted to the first edition of the
 ENERGYTECHDEMO competition organised by the Research Centre
 for POB Energy Conversion and Storage
 of the Warsaw University of Technology**

title:

headed by:

1. **(To be completed for final report only)** A synthetic description of conducted research work including:
 - 1) Research objective (up to 1 page, 11 pt font)
 - 2) Description of implemented work (up to 2 pages, min. 11 pt font)
 - 3) Description of the most important achievements (up to 1 page, min. 11 pt font)
2. Table of measurable outcomes of the project implementation including annexes confirming their achievement. (In accordance with Tables in item 5 of Application for a research project)

Obligatory indices:

No.	Type of outcome	Declared value (0/1)	Achieved value (0/1)	Details of achieved indices/actions undertaken to achieve them (e.g. type and date of competition in which the application for a grant was submitted)
1	Submission of an application for external funding, including with an industrial partner or leading foreign universities and/or scientific institutions, which has passed at least a formal evaluation, preferably as part of an international programme, for an amount of at least twice the funds obtained under the POB grant			
2	Establishment of cooperation with industrial partners culminating in obtaining funding for research in the form of a research contract in accordance with Regulation No. 143/2020 of the Rector of the Warsaw University of Technology of 20 November 2020 for the minimum amount of funds obtained under the POB grant			
3	Granting a licence for the use of the invention/know-how of the developed product or process innovation for a minimum amount of the funds obtained under the POB grant for a calculation period of up to 10 years from the date of completion of the POB grant			

Optional indices:

No.	Type of outcome	Declared value	Achieved value	Details of achieved indices/actions taken to achieve them (including the title of publications, a list of units with which cooperation leading to the achievement of outcome was started, etc.)
1	Declared number of publications of papers in scientific journals from the upper decile according to CiteScore of the Scopus database or reviewed conference publications for min. 200			



Excellence Initiative – Research University
 Priority Research Area
 Energy Conversion and Storage

	points from the current list of the Ministry of Science and Higher Education (MNiSW)) (at least acceptance of the paper for publication is required) including international cooperation			
2	Establishment or development of cooperation with leading foreign universities and/or scientific institutions culminating in scientific publications in international cooperation (not included in item 1; at least acceptance of the paper for publication is required)			
3	Submission of a patent application for the developed product or process innovation			
4	Integration of the demonstrator into the infrastructure of the Warsaw University of Technology			

4. Statement of planned and incurred costs

Cost category	2024		2025		Total	
	Planned	Incurred	Planned	Incurred	Planned	Incurred
I. Total direct costs, including:						
1. Equipment						
2. Remuneration with related items						
3. Other direct costs						
II. Surcharges (15%)						
III. Total costs						

5. A list of implementers' names as part of the project realisation.

Implementer (name and surname of implementer, academic title/degree, position, place of employment)	SAP Number
1.	
2.	
3.	

.....
 (date and signature of head of project)

.....
 (stamp and signature of Bursar's representative)

*Delete as appropriate



Excellence Initiative – Research University
Priority Research Area
Energy Conversion and Storage

Annex No. 5 to Regulations

Record of evaluation and approval of the project

title:

headed by:

Planned costs: PLN, Incurred costs: PLN

Committee:

Chairperson:

Members:

1.

2.

3.

The evaluation committee states that the project:

has been correctly implemented. / has been partially implemented. / has been incorrectly implemented. *

Committee's comments:

Date and Committee's signatures:

Chairperson:

Members:

1.

2.

3.

Date and signature of the Head of the project:

Annexes:

Final report on the project implementation