



CONNECT NO PKN/2/004171/24

REQUEST FOR INFORMATION

ORLEN Spółka Akcyjna, with registered seat in Płock, Poland, ul. Chemików 7, 09-411 Płock, Poland, entered into the Register of Entrepreneurs kept by the District Court for Łódź Śródmieście in Łódź, XX Commercial Division of the National Court Register, under KRS number 0000028860, with share capital in the amount of PLN 1.451.177.561,25, fully paid-up, NIP number 7740001454, REGON number: 610188201, being an active VAT tax payer –

invites to submit a response in subject:

„CHEMICAL RECYCLING PET”

I. Description of the subject of the inquiry

In connection with Strategy 2030, the ORLEN S.A. wants to achieve about 400 kt of installed recycling capacity in both mechanical and chemical recycling, and intends to looking for alternative sources of feedstock for the petrochemical area, ORLEN S.A. would like to obtain information on PET chemical and physical recycling technologies under development, under commercial construction or lately commercially deployed excluding those referring to typical mechanical recycling, in order to validate, evaluate and verify various PET recycling technologies.

II. General context

The primary objective of the project is to initially verify and evaluate various PET recycling technologies, excluding mechanical recycling, in order to assess the possibility of commercial partnering with a supplier of such technology. ORLEN is interested in technologies using post-consumer PET waste including various packaging and textiles (for ex. textile to bottle; bottle to bottle). ORLEN S.A. wants to focus on evaluating the technology in terms of feedstock and products primarily, so that in the future we can consider the possibility of setting up such a plant integrated with current production assets. ORLEN S.A. as a PTA manufacturer is interested in integrating renewable assets with existing fossil assets for PTA production to increase the production for circular petrochemicals. At the same time ORLEN S.A. is interested in exploring business and investment opportunities with Bidders participating in abovementioned RFI tender process.

III. The scope of the necessary information to be presented within the framework of the request for information:

Bidders are asked to provide information on the following:

1. General information about company.
2. References for bench, pilot, demonstration and commercial scale plants converting chemically PET to intermediates enabling for manufacturing of r-PET.
 - a. Capacity in kT/a for the bench, pilot demonstration, commercial plants including the country of operation (regardless the continent)
 - b. Capacity and number of the licenses sold until 2024.



3. References for integration of the technology/process with polyesterification for r-PET manufacturing.
4. Information about waste feedstock suitability and quality tolerance:
 - a. Examples and specifications of feedstock with description and photos that were suitable for the technology;
 - b. Feedstock business case description if significantly matters for the technology and product quality
 - c. Required quality and quantity of feedstock at the entrance to the installations for small scale tests / pilot tests;
 - d. Methodology for testing the quality of feedstock (standards)
5. Information about chemical products from the installation (we are interested in intermediate products that can be integrated with large scale PTA production including but not limited to: BHET, PTA, etc.) :
 - a. Description of the final, chemical product;
 - b. Description about other chemicals to be used in the specific recycling process (glycolysis, methanolysis, hydrolysis, others)
 - c. Quality and quantity of the final product compared to the feedstock (We want to get information about the relationship between the feedstock and the finished product, what impact the feedstock used during the process had on the quality of the final product). Ideally feedstock shall be paired with products in the form of input-output business cases.
6. Technology presentation in (open) pptx format and / or technology brochures with most updated data about the process and technology.
7. Step-by-step process / technology description.
8. Description of technology development:
 - a. History of the development with scale-up stages and partners involved;
 - b. Type of installation: laboratory, pilot/demonstration or industrial/commercial;
 - c. TRL (technology readiness level for end of 2024);
 - d. Actual capacity of the recycling installation (kg of feedstock per hour) and its mode of operation (batch, continuous, etc.);
 - e. Future development plans to 2030 in terms of new capacities to be built;
9. Intellectual property:
 - a. Describe your intellectual property portfolio, list of granted patents, list of patent applications related to the area of inquiry.
 - b. Describe the innovativeness of your technology against the current state of the art.
 - c. Describe the advantages of your technology compared to current solutions on the market.
10. Certification process:
 - a. Is the company applied / applying for DG SANTE (or US equivalent - FDA) food contact or cosmetics certifications for the rPET goods? If yes, please describe at what stage is the certification process.
11. Other information:
 - a. Is it possible to conduct qualitative research (R&D) on our feedstock (about 4-5 streams, PET packaging and textiles separately)? How many kilograms of sample will be needed for research?
 - b. Is it possible to receive samples of r-PET final goods for our internal evaluation and testing?



IV. Required elements of the response:

- **Formal part**

1. Completed Appendix No.1 – Declaration of meeting the formal criteria;
2. Completed Appendix No.2 - Beneficiary's declaration;
3. Statement on reading and accepting the "Code of Conduct for Suppliers of ORLEN S.A." which is available on the website www.orlen.pl (For business/ Tenders and supplies / Supplies);
4. Statement on reading and accepting the "Anti-corruption policy of ORLEN Group" and principles on accepting and granting gifts in ORLEN S.A. which are available on the website www.orlen.pl (About us/ company/ our standards);
5. Valid excerpt from the National Court Register (KRS) or an excerpt from non-confidential data and information made available in the Central Register and Information on Economic Activity (CEIDG) or an equivalent registration document of the Bidder

- **technical part:**

1. Providing a response to requirements in the section III above

V. Suggested completion date:

Providing information within 10 weeks from the publication of the request for information (RFI).

Bidders may provide not complete data from the section III above, however it is kindly requested to provide as much as possible for internal assessment of the Bidder and technology.

VI. Business confidentiality

The Bidder shall treat all information acquired as a result of receipt of this RFI as confidential.

The Bidder shall take all reasonable efforts to protect the information contained herein in the same manner as the Bidder's confidential information.

The information concerning the fact of invitation of the Bidder to the RFI procedure, the fact of delivering the Proposal, the conducting of commercial negotiations and concluded contracts may be disclosed by the Bidder solely for the purpose of building a consortium of entities responding jointly to this RFI. It is the Bidder who will be responsible for maintenance of confidentiality of information acquired within the scope of this RFI by all participants in the consortium – the Bidder will be responsible for omissions or breaches with respect to information protection like for his own omissions and breaches.

ORLEN S.A. agrees to maintain a business secret and declares that without the written consent of the Bidder it shall not distribute and disclose to third parties any materials received in response to this RFI, with reservation of the possibility of engagement of consultants to support tasks related to the tender procedure.

ORLEN S.A. requests that the communication carried with the Bidder related to the RFI is to be treated as confidential. Simultaneously, ORLEN S.A. assures that information provided by the Bidder will be held in confidence and will be made available to participants of the evaluation process only.



In case the Bidder who received the RFI disagrees with its conditions, all documents shall be returned to ORLEN S.A. and all of its copies (paper or electronic) shall be destroyed.

For every request of the Bidder ORLEN S.A. is ready to sign NDA before Bidder provides any information on Connect purchasing platform. You can find the NDA agreement template in the RFI attachments- Appendix no. 3

VII. Bidder's risk

ORLEN S.A. shall not be responsible for any expenses, losses, obligations or claims related to the tender procedure, made by the Bidder or their partner(s) or any other third party with whom the Bidder is or will be related during the procedure.

The Bidders, their partners and their subcontractors shall be responsible for all costs related to preparation and submission of responses. Under no circumstances will ORLEN S.A. be responsible for, obliged to cover, or pay any costs or losses incurred by Bidders, their partners or subcontractors in relation to preparation and submission of responses, regardless of the results of this RFI procedure.

This request is not an invitation for negotiations in the understanding of Art. 72 of the Polish Civil Code, thereby regulations concerning the bids do not apply in the understanding of Art. 66 and the following.

ORLEN S.A. reserves the right to:

- change the schedule of the RFI process without specifying a reason,
- cancel the RFI process at any phase without specifying a reason,

No claims may be made against ORLEN S.A. by Bidders due to the above. ORLEN S.A. does not plan any appeal procedure during the RFI process and after completion thereof.

VIII. Additional Questions

While preparing the response Bidders have a right to ask additional questions regarding the RFI. Questions should be delivered via Connect (**"Questions/Answers" form**) and formulated in a way which prevents identification of the Bidder who asked the question. On the basis of received questions ORLEN S.A. will prepare a response – the same to all Bidders.

ORLEN S.A. reserves the right to refuse to provide the answer to questions without giving a reason.

IX. Additional information

This document along with all appendices hereto is owned by ORLEN S.A. and may not be used for any other purpose than related to this tender procedure without the consent of ORLEN S.A. Copying or distribution of this document in any form is prohibited without the prior written consent of ORLEN S.A. ORLEN S.A. is not responsible for the content of auctions published on websites other than <https://connect.orklen.pl> and on ORLEN S.A. The access to all auctions on <https://connect.orklen.pl> is free.

The only contact allowed for communication between Bidders and ORLEN S.A. regarding the RFI is the CONNECT Purchasing Platform. Responses to these inquiries sent after the specified deadline may not be accepted.

The response should be confirmed by person(s) authorized to represent the Parties – an extract from any applicable powers of attorney should be attached to the response.



Person responsible for the RFI process:

Agnieszka Rolf

Dział Planowania i Zakupu Prac oraz Projektów Badawczych / Research Work and Projects Planning and Procurement Department

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- ***Appendices:***

- Appendix no. 1 - Declaration of meeting the formal criteria
- Appendix no.2 - Beneficiary's statement
- Appendix no.3 – NDA Agreement Template