

PERSEO CHALLENGE REGULATIONS

1. Background to the Challenge

Iberdrola is committed to clean, renewable energy in the move towards a sustainable, safe and competitive energy model. Part of this commitment lies in a constant search for greater efficiency and a reduction in operating and maintenance costs so as to increase the competitiveness of renewable energy. In addition, extending the useful life of our assets contributes to the sustainability of our model.

Wind turbine monitoring systems and the associated electrical infrastructure are a key factor in extending the useful life of the equipment, as they can collect the enormous amount of data that is needed to develop diagnostic and prognostic models, making it possible to transition from corrective or planned maintenance to maintenance schedules that are based on the condition of the equipment, allowing early fault detection”

An essential part of these monitoring systems is sensors and a monitoring system to measure a variety of parameters associated with turbine's components. These sensors feed into the turbine control and alert system and also to diagnostic systems.

Currently, Iberdrola has over 16 GW of installed onshore wind power and 572 MW of offshore wind power around the world, and a sharp increase in our installed capacity is expected in the next few years. This is why Iberdrola is looking for solutions that will help to improve wind farm monitoring systems, especially those solutions that can be implemented quickly, easily and economically in the oldest parks.

2. Description of the Challenge

Inversiones Financieras Perseo S.L., Iberdrola's venture capital vehicle (hereinafter "**Perseo**"), is launching this Challenge to find competitive, innovative solutions for monitoring wind turbines (hereinafter the "**Challenge**").

The main characteristics that will be taken into consideration are as follows:

- Low-cost solutions/sensors
- Low-power/self-powered solutions.
- That can be implemented in operating wind farms with turbines from different suppliers (quick and simple installation and minimal modifications to the existing hardware will also be positively evaluated).
- Solutions that have few wiring requirements (power/communications). Autonomous (that do not need external power) wireless sensors will be particularly positively evaluated.
- Long-distance wireless data transmission protocols, such as LoraWAN, which permit centralised data collection at the substation or the O&M base.
- On-edge data processing to reduce the bandwidth needed to transmit the data.
- Open interfaces for post-processing and sending raw data.
- Multifunction sensors, e.g., ones combining temperature, pressure, humidity and tri-axial vibrations.

Proposals must fall into one or more of the following categories:

- A) Innovative sensors and systems for monitoring the components of the drive train (main bearing and gearbox). In this category, vibration sensors, main shaft torque measurement sensors, accelerometers (including those that can go inside planetary gear trains in gearbox) will be considered.
- B) Low-cost wireless sensors for measuring the temperature of rotor bearings.
- C) Wireless sensors for measuring gear tooth wear, etc.
- D) Wireless acoustic sensors and innovative monitoring systems for monitoring the breakage of components inside the rotor.
- E) Low-cost wireless sensors for monitoring the structural behaviour of foundations by capturing tilt, tension and low-frequency vibrations. (<100 Hz).

Projects should include a detailed description of the proposed solutions and any supporting information regarding feasibility and cost effectiveness.

3. Participants

Candidates taking part in this Challenge (the “**Participant/s**”) may be individuals or entities.

In either case, the Participants and/or team members must be at least 18 years old, be of legal age and have full legal capacity in the jurisdiction in which they reside.

If you take part in the Challenge through a team or a legal entity, the proposal must be presented by a representative who will be the only valid liaison during the Challenge and they will be empowered to represent the team and will be liable vis-à-vis the team or legal entity.

4. Submission

The Participant will submit the information to <https://connect.startus.cc/iberdrola-wind-turbine-monitoring/> in relation to the Challenge described in Section 2 (collectively referred to as the “**Proposal**”).

Each Participant may submit one or more Proposals.

Participation in this Challenge does not give any protection regarding intellectual property rights against third parties. We recommend that Participants take steps to protect their intellectual property rights before submitting their Proposal.

By submitting the Proposal, the Participant agrees to this regulation and declares, under their own responsibility, that they are the owner of or have rights to use any intellectual property rights relating to the proposal and there are no conflicts of interest.

Perseo and/or the relevant Iberdrola group company reserve the right to reject any Proposals that do not comply with this regulation.

5. Prize

The prize will consist of signing a collaboration and test agreement with Perseo and/or with any other relevant Iberdrola group company.

Perseo and/or the relevant company will:

- i. assume the costs of the collaboration and testing

- ii. provide the winner with the necessary technical support to test the solution proposed, giving access to equipment, appliances, infrastructure, high technology sites and joint work areas; and
- iii. provide the winner with a real environment and real data to test the solution.

If the test or proof of concept is satisfactory, Iberdrola and/or the relevant company, directly or indirectly through an Iberdrola group company, may offer the Participant the opportunity to scale up the solution by means of commercial agreements.

In addition, Perseo may consider investing in the Participant and/or Challenge winner.

Winning the Challenge gives no rights other than the prize described.

Perseo may choose the winner in accordance with its own criteria and may declare the competition void if none of the proposals fulfils expectations.

6. Statements and guarantees:

By taking part in the Challenge, the Participant manifests and guarantees that:

1. The information contained in the proposal presented is correct, reliable and complete.
2. The Participant holds all rights, including but not limited to all intellectual property rights and has obtained each and every consent, approval and licence necessary to present the Proposal and take part in the Challenge. No third-party rights are infringed.
3. Perseo and/or the relevant Iberdrola group company need not verify the authenticity of the ownership of the rights over the Proposal and the exclusive responsibility for any problems arising from claims from any third parties that may arise rests with the Participants.
4. The Participant has not violated any laws to participate in the Challenge.
5. The Participant releases and exempts Iberdrola and/or the relevant Iberdrola group company and its subsidiaries, affiliates, employees and agents, from all responsibility for any injury, loss or damage of any kind derived from or related to the Proposal and Participation in the Challenge.
6. The Participant is aware that Iberdrola has zero tolerance of corruption and complies and will comply with principles equivalent to those assumed by Iberdrola in its Code of Ethics, which is available on <https://www.iberdrola.com/corporate-governance/corporate-governance-system/purpose-values-code-ethics>.

7. Requests

Proposals will be submitted via a <https://connect.startus.cc/iberdrola-wind-turbine-monitoring/> and must be written in Spanish or English.

Each proposal must include:

- 1) General information:
 - The participant's details. If the participant is a team or a legal entity, the representative submitting the application must identify themselves as such and will include a certificate of their power of attorney to represent the team or legal entity.
 - Link to the website (optional).
 - Address (city, country).
 - Contact information (contact person, job title, email, telephone number).

2) Description of the Proposal:

- Description of the solution in 50 characters.
- Presentation of the company/organisation.
- Demo or video link (optional).
- Maturity of the solution (R&D, proof of concept, entire commercial proposal).
- Preliminary investment and operation and maintenance costs.
- Charging method (batteries, photovoltaic panels, etc.) if applicable.
- Autonomy.
- Contractual agreements.
- Reference numbers.

3) A list of all the intellectual property rights owned by the Participant, granted to the Participant under licence and/or created by or on behalf of the Participant and included in the Proposal.

8. Schedule

Proposals must be submitted between 01/07/2020 at 12:00 p.m. GMT and 15/09/2020 at 12:00 pm. All Participants will receive confirmation that their proposals have been received. Any proposals received after this period will be rejected.

Proposals will be evaluated internally by Perseo and/or by employees of the relevant Iberdrola group company.

Perseo and/or the relevant Iberdrola group company may contact Participants at any time to request such additional information as they consider necessary.

Participants should send their questions and suggestions by email to: IberdrolaChallenge@iberdrola.es.

The evaluation process will end in October, when Perseo will notify the winner.

Perseo will declare the competition void if none of the proposals meet Iberdrola's expectations.

After notifying the winner, Perseo and/or the Iberdrola group company will publish the name and details of the winner, with a description of the winning proposal and the reasons that it has been chosen, on the Iberdrola website and on Iberdrola group social networks.

9. Changes to the Regulation

Perseo may amend this Regulation at any time and at its own discretion. This includes changes to the deadlines established, modifications to events, locations and specifications of the Challenge. Perseo will publish/notify participants of any changes to this Regulation on the website <https://connect.startus.cc/iberdrola-wind-turbine-monitoring/>.

10. Cancellation, modification or suspension of the challenge in case of irregularities

Perseo reserves the right to cancel, modify or suspend participation by non-compliant participants and/or the Challenge as a whole if it considers that a participant has cheated or has introduced a virus, worm, internet *bot*, etc., or if a catastrophic event occurs, or any other unforeseen or unexpected event that cannot reasonably be controlled or anticipated (also called force majeure) which may affect the impartiality and/or integrity of this Challenge.

Perseo and/or the Iberdrola group company may disqualify or prohibit participation of any non-compliant participant in any future competition.

11. Data protection

Inversiones Financieras Perseo, S.L., with registered address at Plaza Euskadi 5, Bilbao 48009, Spain, hereby informs participants that the personal data of the Participant included when registering the Proposal will be processed by Perseo as the data controller for the purpose of operating this Challenge.

The legal basis for processing the Participant's data is the Participant's consent, granted when the Participant registers for the Challenge and accepts this Regulation. The Participant has the right to withdraw the consent given at any time without this affecting the legality of the data processing by virtue of the consent granted by the Participant before it was withdrawn.

If, as a result of the participation by the Participant in the Challenge, the Participant provides personal data belonging to third parties, before submitting this personal data, the Participant must inform those third parties that their personal data will be processed in accordance with the aforementioned documentation.

The Participant's personal data will not be communicated to any third parties. This notwithstanding, the personal data will be made available to service providers in connection with the management of the platform <https://connect.startus.cc/iberdrola-wind-turbine-monitoring/>.

The personal data provided by the Participant will be stored for as long as needed to comply with the Challenge, as detailed above. Also:

- If the Proposal is not selected, the personal data will be deleted.
- If the Proposal is selected, the personal data processed by Inversiones Financieras Perseo, S.L. will be governed by the corresponding agreement.

However, the personal data provided may be kept, duly blocked, for the time required by law and the applicable regulations.

Iberdrola has implemented the necessary technical and organisational measures to protect Participants' data from accidental loss or unauthorised alteration, access, use or disclosure, and has also established procedures to react to any security incident that could affect Participants' data.

The Participant has the right to access their personal data being processed, as well as the right to request the rectification of incorrect data, or, where appropriate, request the deletion of their data when no longer necessary for the purposes for which they were obtained, and also has the right to object to or limit the processing of their data. Participants may also withdraw their consent at any time.

Participants may also exercise their rights, free of charge, by writing to the data protection officer at perseo@iberdrola.es.

If the Participant is not satisfied after exercising their rights, they may submit a complaint to the Spanish Data Protection Agency.

12. Costs and taxes

Participants will assume any costs and taxes related to their participation in the Challenge and to their receipt of the prize, if applicable. It is recommended that Participants check the costs, charges and taxes applicable in the laws of the jurisdiction in which they reside or in which they are obliged to pay taxes.

13. Limitation of liability

Perseo or the relevant Iberdrola group company are not liable for problems related to computers, networks or any other problems that could cause the delay, loss or damage of any participation.

14. Translation of this Regulation

This Regulation has been drafted in Spanish and translated into English and Portuguese. In case of any discrepancies between the original and the translation, the Spanish version will prevail.

15. Applicable law and jurisdiction

This Challenge and its regulations are governed by Spanish law. The courts of Madrid, Spain will have exclusive jurisdiction to settle any disputes.