



Water Abundance XPRIZE

Competition Guidelines, Version 3.0

THE WATER ABUNDANCE XPRIZE ('WATER ABUNDANCE XPRIZE' or 'WAXP' or 'Prize') IS GOVERNED BY THESE COMPETITION GUIDELINES. PLEASE SEND QUESTIONS OR CLARIFICATIONS TO water.abundance@xprize.org

XPRIZE FOUNDATION MAY REVISE THESE GUIDELINES DURING THE COMPETITION TO PROVIDE ADDITIONAL INFORMATION OR TO IMPROVE THE QUALITY OF THE COMPETITION. THERE MAY ALSO BE UNANTICIPATED ISSUES THAT WILL REQUIRE MODIFICATIONS TO THIS DOCUMENT. THE XPRIZE FOUNDATION RESERVES THE RIGHT TO REVISE THESE GUIDELINES AS IT, IN ITS SOLE DISCRETION, DEEMS NECESSARY OR DESIRABLE. REGISTERED TEAMS WILL BE NOTIFIED OF ANY REVISIONS.

Contents

- COMPETITION GUIDELINES 3
- COMPETITION OVERVIEW 3
- OFFICIAL LANGUAGE AND CURRENCY 3
- PRIZE PURSE 3
- MILESTONE PRIZES 3
- WHO CAN PARTICIPATE? 3
- TIMELINE 3
- REGISTRATION 5
- COMPETITION STRUCTURE 5
- COMPETITION ROUNDS 6
 - Round 1 – Prototype Testing 6
 - Round 2 – Final Testing 6
- AWARDS ANNOUNCEMENT 7
- TEAM CONFERENCE AND TEAM SUMMITS 7
- ADVISORY BOARD AND JUDGING PANEL 7
 - ADVISORY BOARD 7
 - SELECTION OF ADVISORS 7
 - INDEPENDENT ADVISORY BOARD 7
 - ROLE OF THE ADVISORY BOARD 7
- JUDGING PANEL 8
 - SELECTION OF JUDGES 8
 - INDEPENDENT JUDGING PANEL 8
 - ROLE OF THE JUDGING PANEL 8
 - GROUND FOR JUDGING PANEL DECISIONS 8
 - DECISIONS OF THE JUDGING PANEL ARE FINAL 8
- INTELLECTUAL PROPERTY RIGHTS 8

COMPETITION GUIDELINES

These Competition Guidelines summarize the requirements of the WATER ABUNDANCE XPRIZE Competition. Further specifications are provided in the Rules and Regulations, which will be updated from time to time during the Competition.

COMPETITION OVERVIEW

The Water Abundance XPRIZE challenges Teams from around the world to revolutionize access to water by creating a device that extracts a minimum of 2,000 liters of water per day from the atmosphere at a combined operating and capital cost of no more than 2 cents per liter.

The Water Abundance XPRIZE will create decentralized access to water, giving people the power to access water whenever and wherever they need it. Teams will compete in two rounds for a total prize purse of \$1,750,000.

OFFICIAL LANGUAGE AND CURRENCY

The official language of the Competition is English. All communications with the XPRIZE Foundation must be in English unless a Team has received prior written permission from the XPRIZE Foundation.

All references to currency are expressed in United States Dollars(USD).

PRIZE PURSE

The one million, five hundred thousand dollars (\$1,500,000) Grand Prize will be awarded to the winning Team of the Competition. Milestone Prizes may be awarded after the first round of testing as per Table 1 in the SCHEDULE.

MILESTONE PRIZES

A purse of \$250,000 is available to the Judging Panel to award as Milestone Prizes at the end of Round 1. There is no restriction of the number of prizes the Judging Panel may award from this purse, and the full \$250,000 may not be awarded.

WHO CAN PARTICIPATE?

XPRIZE believes that solutions can come from anyone, anywhere. Scientists, engineers, academics, entrepreneurs, and other innovators with new ideas from all over the world are invited to form a Team and register to compete. To participate, a Team may need to recruit additional experts and can add new members at any time throughout the Competition.

TIMELINE

The Water Abundance XPRIZE is a 2-year Competition launched on 24th October, 2016. There will be two sequential rounds of the Competition.

Round 1: Prototype Testing.

Round 2: Final Testing, using 100% renewable energy;

After Round 1 up to five qualifying Teams, as determined by the Judging Panel, will be eligible to compete in Round 2.

The Water Abundance XPRIZE will run based on the following schedule: -

Table 1

Description	Date
Prize Launch & Registration Opens	24 th Oct, 2016
Public comments open for Competition Guidelines	24 th Oct, 2016
Public comments close for Competition Guidelines	10 th Nov, 2016
Revised Competition Guidelines based on Public Comments Released	Dec, 2016
Registration Deadline	28th of April
Team Conference	May 10 th , 2017
Deadline for teams to submit design documentation	30 th May, 2017
Round 1 Testing	Jan, 2018
Team Summit	Feb, 2018
Milestone Awards, announcement of top 5 Teams for Round 2	Feb, 2018
Team Summit and Round 2 Testing	July, 2018
Business Plan Submission deadline	16 th July, 2018
Award and Announcement of Grand Prize Winner	August, 2018

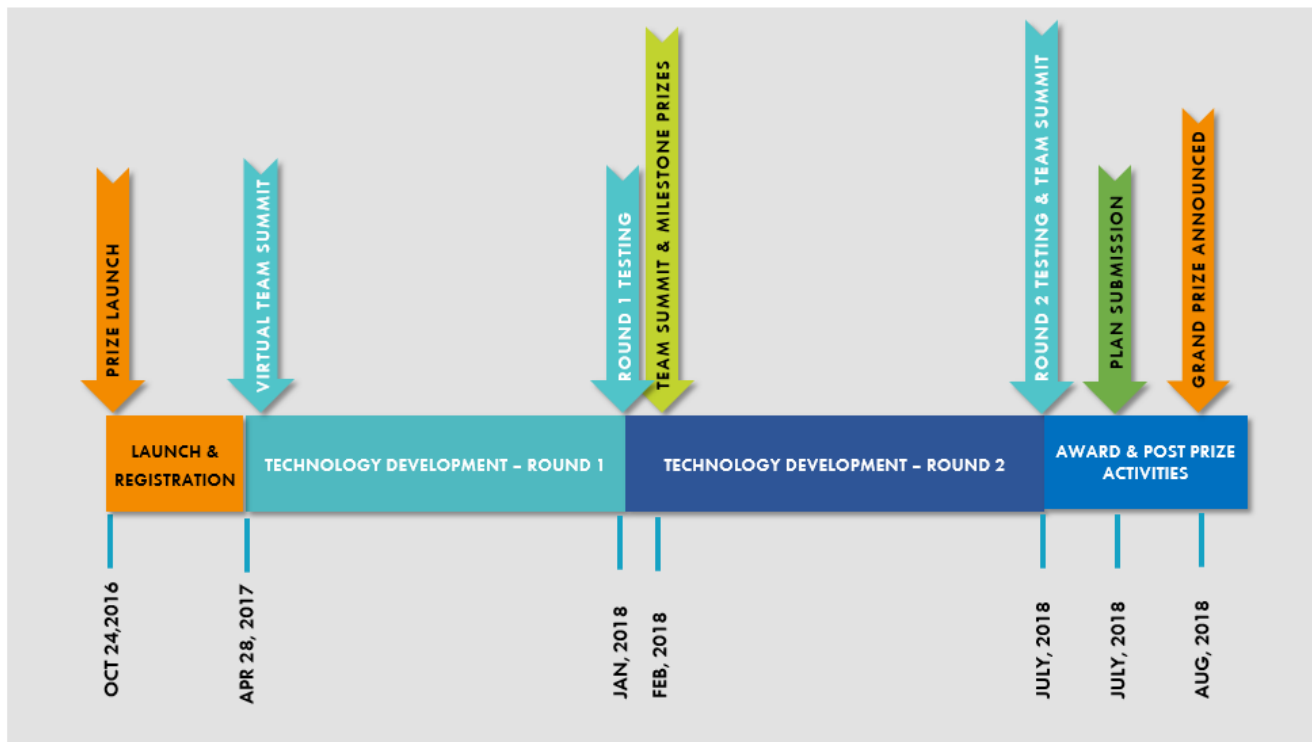


Figure 1

REGISTRATION

To compete in the Water Abundance XPRIZE, the participant must have a registered Team. To complete your registration, you must:

- Create a Team Profile at <https://waterportal.xprize.org>,
- Complete the registration process, and
- Pay the non-refundable \$250 registration fee.

COMPETITION STRUCTURE

After the registration period, The Water Abundance XPRIZE will have two rounds of testing and judging: -

- **Round 1:** All registered Teams will create a solution prototype that can extract water from the atmosphere using any source of energy and without any requirement for minimum water output or cost per liter
- **Round 2:** Up to five Teams from Round 1 will be shortlisted for next and final round of testing wherein the teams must achieve the final objective as described in Competition Overview above.

All registered Teams will have approximately eight months to create a solution prototype that can extract water from atmosphere. All the registered teams will also need to submit a design document during the start of this phase of technology development. Up to five qualifying teams will be chosen by the Judges for next round of testing and all these teams selected for the next round will be awarded milestone prizes. These shortlisted teams will be given five months to build the full solution per the Competition Overview to participate in the next and final round of testing. One Grand Prize Winner will be announced in August, 2018.

COMPETITION ROUNDS

The winning solutions of Water Abundance XPRIZE will be evaluated based on their technological capability to extract maximum amount of atmospheric water at a minimum cost and highest efficiency to meaningfully address the Grand Challenge. The solution must use clean and renewable sources of energy in the final round of testing. There will be two (2) rounds of testing to select the Grand Prize Winner.

Both rounds of testing will be conducted over a minimum of three consecutive days in which the teams will demonstrate their technology of water extraction in the presence of XPRIZE representatives and the Judges.

If required, Judges will normalize the results of individual Teams. This normalization will be created with the help of an independent consultant appointed by the Judging Panel. For more details on testing and the score cards please refer to the Rules and Regulations.

Round 1 – Prototype Testing

Round 1 require Teams to create a solution prototype that can extract water from the atmosphere using any source of energy and without any requirement for minimum water output or cost per liter of water extraction. However, Water output and cost will be considered by the judges in selecting the teams for the next round. The solutions will be tested in an open environment under the standard test conditions mentioned in the Rules and Regulations to avoid extreme environment. These tests will be conducted at few selected locations across the globe and will be announced after the end of registration period. Teams will have an option to propose preferred geographical locations of the test, which will be considered by the Judges before making the final decision of the selected locations.

All Teams must also submit documentation of their design to XPRIZE after the end of registration and before the submission deadline as per Table 1 of the Timeline above. A format for this documentation is available in the Rules and Regulations.

Up to the top five Teams from this round will proceed to Round 2 testing. The Judging Panel will also award Milestone Prizes (if any) at the end of Round 1 testing.

Round 2 – Final Testing

The Teams shortlisted in Round 1 will need to come up with the full solution as per the Competition Overview to participate in the Final round of testing. The testing environment for this round is covered in more details in the Rules and Regulations.

Round 2 Testing will be conducted at one or more locations specified by the Judging Panel. The teams will be scored based on a scorecard designed to capture the performance of the solution per the final objectives of the Prize Overview.

The cost per liter of water extraction will also be calculated based on a *pro forma* Bill of Materials and estimated NRE and tooling costs. A more detailed description of this calculation is provided in the Rules and Regulations. The Affordability Index must be less than \$0.02 (two cents). **No prize will be awarded to a Team that does not meet that criterion.**

AWARDS ANNOUNCEMENT

After the end of Final Round of testing, the Judging Panel will determine a winner of the Water Abundance XPRIZE based on the performance of submissions received by teams fulfilling the requirements of all rounds of the competition. In August 2018, a Grand Prize Winner will be announced and awarded a prize purse.

TEAM CONFERENCE AND TEAM SUMMITS

Two (2) in-person Team Summits will also be held to support Teams during the different stages of the Competition. An online Team Conference will be held in May, 2017 to formally introduce the Competition to registered Teams and answer any initial questions.

The first in-person Team Summit is planned just after the end of Round 1 testing and the second in-person Team Summit is tentatively planned with Round 2 testing. The timeline and dates for these events are mentioned in Table 1 above.

At least one representative of each Team must attend each Team Summit. External stakeholders may also be invited to attend the Team Summits. Team Summits will be an opportunity for Teams to interact and collaborate with each other, industry, academic, government, other stakeholders involved in atmospheric water extraction and allied technologies, and potential investors and partners.

ADVISORY BOARD AND JUDGING PANEL

To implement the Water Abundance XPRIZE and support the validity and integrity of the Prize process, XPRIZE will convene Advisory Board and a Judging Panel.

ADVISORY BOARD

SELECTION OF ADVISORS

XPRIZE will form a panel of relevant subject matter and technical experts to serve as the “Advisory Board” (AB) for the Competition. The AB will remain in place throughout the Competition to advise XPRIZE regarding the scientific and other elements of the Competition.

INDEPENDENT ADVISORY BOARD

The AB will be independent of XPRIZE and all teams and team members. No Advisor, nor any member of the

Advisor’s immediate family, shall participate, nor have any financial or other material interest, in XPRIZE or any team or team member. All members of the AB shall promptly disclose to XPRIZE any such current, former, or expected future conflict of interest with XPRIZE or any team or team member.

ROLE OF THE ADVISORY BOARD

The duties and responsibilities of the AB may include, but not be limited to: (i) assisting with the establishment of qualifications for prospective Judges; (ii) recommending members of the Judging Panel; (iii) assisting with development of testing protocols and judging criteria; (iv) and providing input towards the development of these Competition Guidelines.

JUDGING PANEL

SELECTION OF JUDGES

The "Judging Panel" (as defined in the Rules and Regulations) will be comprised of highly qualified and impartial Judges. XPRIZE, in its sole and absolute discretion, will recommend Judging Panel candidates to the SAB (Scientific Advisory Board) for its review and consideration. The SAB will select the candidates it believes are best suited to serve on the Judging Panel.

INDEPENDENT JUDGING PANEL

The Judging Panel will be independent of XPRIZE, the Title Sponsor, and all teams and team members. No Judge, nor any member of Judge's immediate family, shall participate, nor have any financial or other material interest, in XPRIZE, the Title Sponsor, and/or any team or team member. All members of the Judging Panel shall promptly disclose to XPRIZE any such current, former, or expected future conflict of interest with XPRIZE, the Title Sponsor, and/or any team or team member.

ROLE OF THE JUDGING PANEL

The duties and responsibilities of the Judging Panel will include, but not be limited to: (i) evaluating teams' compliance with the Competitors Agreement, these Competition Guidelines, and the Rules and Regulations for the purposes of the Competition; and (ii) the awarding of points and selection of teams that will proceed to each subsequent round of the competition.

FOUNDATIONS FOR JUDGING PANEL DECISIONS

Official decisions made by the Judging Panel will be approved by most the Judges that vote on each such decision after careful consideration of the testing protocols, procedures, guidelines, rules, regulations, criteria, results, and scores set forth in the Competitor Agreement, these Competition Guidelines, Rules and Regulations, and all other applicable Exhibits to the Competitor Agreement. If any vote of the Judges results in a tie, then the Judging Panel shall determine, in its sole and absolute discretion, the mechanism to settle the tie. Similarly, if one or more teams are tied at any stage during the competition, the Judging Panel shall have the sole and absolute discretion to settle the tie.

DECISIONS OF THE JUDGING PANEL ARE FINAL

The Judging Panel shall have sole and absolute discretion: (i) to allocate duties among the Judges; (ii) to determine the degree of accuracy and error rate that is acceptable to the Judging Panel for all competition calculations, measurements, and results, where not specified in the Rules and Regulations; (iii) to determine the methodology used by the Judging Panel to render its decisions; (iv) to declare the winners of the competition; and (v) to award the prize purses and other awards.

Decisions of the Judging Panel shall be binding on XPRIZE, teams, and each team member. XPRIZE and teams agree not to dispute any decision or ruling of the Judging Panel, including decisions regarding the degree of accuracy or error rate of any competition calculations, measurements, and results. Teams shall have no right to observe other teams' testing or evaluation, or to be informed of other teams' calculations, measurements, and results, unless such information is made publicly available by XPRIZE.

INTELLECTUAL PROPERTY RIGHTS

Teams will retain ownership of their intellectual property. The information that Teams provide to XPRIZE as part of judging the Competition will only be shared with the Judging Panel, XPRIZE employees, contractors, technicians and any other persons involved in administering and/or judging the Competition on a need-to-know basis. All such persons will be under non-disclosure agreements with XPRIZE with terms comparable to the nondisclosure terms and conditions between XPRIZE and Team. Teams will not

have any access to non-public information about other Teams or their technology or performance during the Competition.