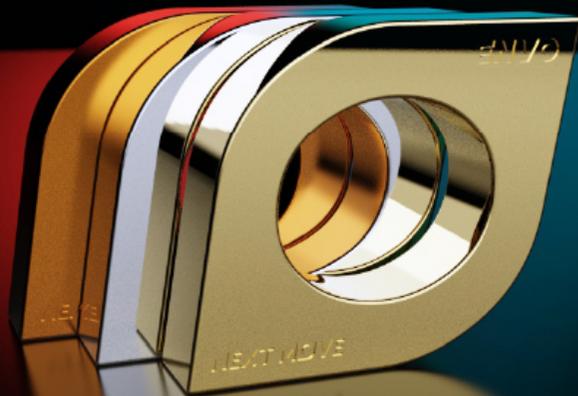
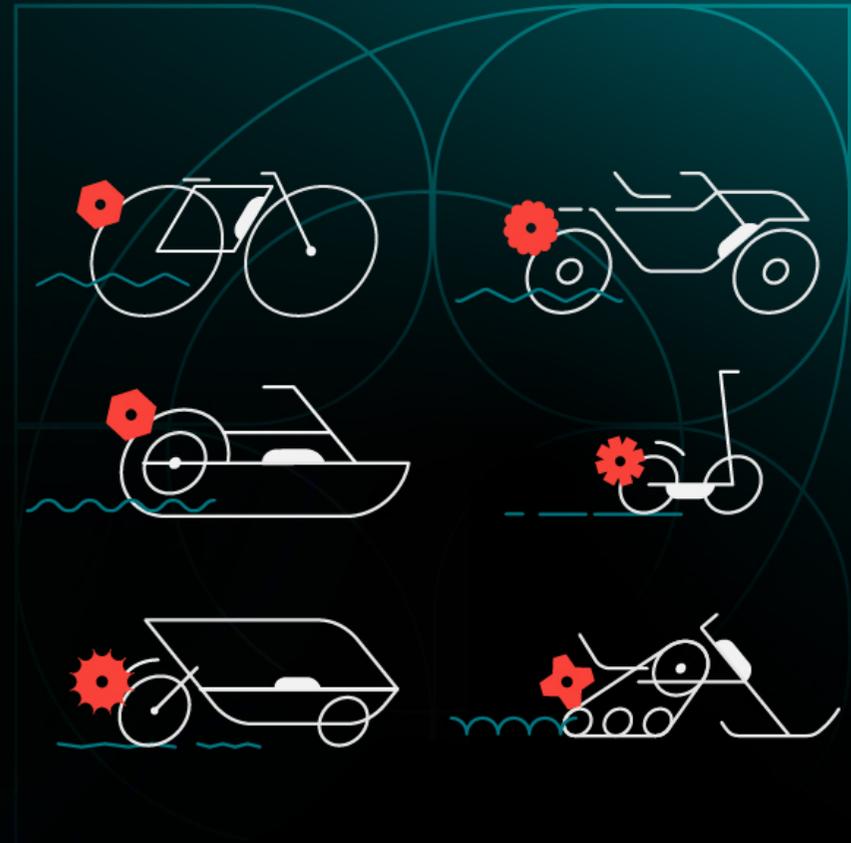


ENVO NEXT MOVE

Green Micromobility Design Competition



2022 GUIDELINES



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Introduction

ENVO Next Move is a design contest organized and held by ENVO Drive, aiming to design the next generation of sustainable personal transportation. The objective is to encourage leading minds to shape the future of the electric personal transport industry in various contexts of use, ranging from navigating the city to exploring nature.



About ENVO

ENVO Drive Systems Inc. ("ENVO") is an innovative engineering company focusing on evolving electric mobility to offset the impact of fossil fuels on our planet.

ENVO focuses on making a difference in all communities by offering innovative, well-engineered, easy to maintain, modern, and reasonably priced electric micro-mobility solutions.

Over 12,000 riders in the ENVO community collectively save over 85 million kgs of CO2 annually by opting for clean energy instead of fossil fuels. The adoption of alternative fuel vehicles continues to increase in popularity - this global movement has become one of the primary drivers of cleaner air and reduced greenhouse emissions.

ENVO is committed to the electric evolution with a passion for sustainably engineered, future-proof mobility solutions.

Going from point A to B should not be at the cost of environmental damage of moving 2 tons of metal boxes. ENVO is about effectively, efficiently, light, and affordable, utilizing clean electric power for various applications. ENVO's brand message is to invite people to "MOVE DIFFERENT" and be more cautious about their mobility footprints.



Who is eligible to participate

We want visionary and creative minds keen to shape the micro-mobility future to participate in the contest. No professional qualifications are required. To be eligible to participate, the following rules must be followed:

- Participants must be at least 19 years old.
- ENVO employees and people with direct personal or professional relationships with jury panel members or organizers may not participate in this competition.
- Design proposals can be developed individually or by teams of a maximum of four.
- Whether entering as an individual or a team, participants must ensure the originality and ownership of their submissions.
- In the case of joining as a team, all members will have equal ownership of the submission.
- Each individual or team may enter the competition with a maximum of one submission per category.
- Once a participant joins the competition as a team member, the participant cannot submit another entry as an individual or as a member of another team.
- Once a participant joins the competition as an individual, the participant cannot submit another entry as a team member.
- ENVO reserves the right to remove a submission for the competition without prior notice if the rules are not followed.



How to enter

To join the challenge, individuals or teams must register and upload their designs in the format described below. ENVO will review the submissions, and 50 entries will proceed to the next round. To develop these entries further, selected participants will be supported by a team of mobility experts over three weeks. In the final stage, the jury will choose three projects as the competition's winners.

- Designs must be submitted in JPG format.
- Each submission must match the following requirements:
 - a) It should visualize the concept.
 - b) It must include a maximum 300 words text description that explains why the proposed design fits the evaluation criteria.
 - c) The ENVO logo must be visible in the file.
 - d) The file should be in B2 size (50 × 70 cm), landscape with 300dpi resolution. Please note that a single JPG file upload is allowed.



Structure of the Competition

The main idea behind the challenge is to go beyond a conventional design contest. ENVO would like to see this initiative as a part of its distributed innovation strategy. To achieve this goal following measures have been taken into account:

- The selection criteria and design briefs represent detailed requirements for feasible and viable designs.
- After the first round of competition, 50 designs from all categories are selected to proceed to the second round.
- Through the competition, public and private webinars will be milestones for exchanging tacit and explicit knowledge and supporting mindful designs with impact. Public webinars are open to everyone interested in the topic, and private webinars are open to those who proceed from the first round.
- Teams and individuals behind the 50 designs mentioned above will receive advice and support from the ENVO technical team to improve the feasibility of the designs.
- ENVO seeks opportunities to turn designs into working prototypes and even mass-produced products. In such cases, ENVO will negotiate conditions with participants.
- In the final stage, the jury will select and announce the three final winners of the competition, who will receive cash prizes of \$10000 CAD. More details can be seen in the Prizes section.



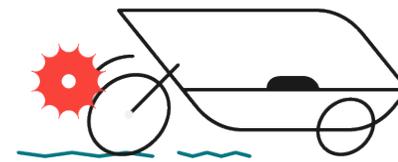
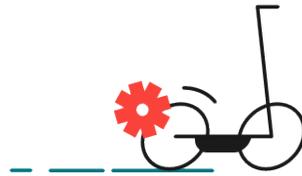
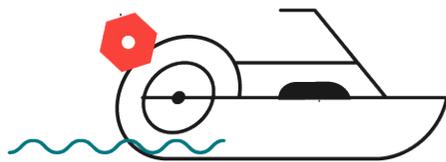
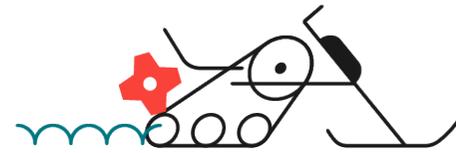
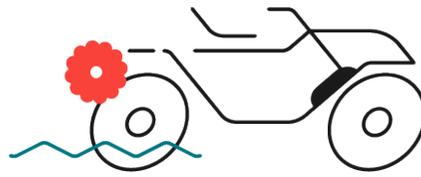
Timeline

- Submissions are OPEN from October 11th, 2022, until December 11th, 2022
- Submissions must be received via the online entry system by 11:59 PM PST ON December 11th, 2022.
- There will be no extensions.



Categories

Each submission must be submitted in one of the following categories considering the specified design requirements for each category.



Snow Electric Mobility Solution

Electric micro-mobility solutions are not yet fully adopted for extreme weather conditions. There is almost no reliable electric micro-mobility solution for areas covered by snow for more than half the year. How can a solution address the challenges of moving through the snow with zero carbon footprint? Submissions that answer this question should also address the following design criteria:

Context of use:

- Recreational Use
- Snow covered roads
- Backcountry riding
- Frozen Lake and ice fishing
- Towing
- Exercise (pedal assist version) is a bonus

Formfactor:

- Stable yet manoeuvrable
- Skis, tracks, or a combination of both
- Suspension
- The cockpit can be enclosed/weatherproof or open.
- Optional: Second passenger seat
- Optional: Cargo area

Performance and Constraints:

- Max Speed: 50km/h
- Motor Power: 3kW
- Maximum Weight: 75kg
- Combining human and electric power is a bonus
- Transportable using SUV/Minivan (Dimensions: 50" x 70" or 127 cm x 178 cm)
- Electrical Braking with the addition of friction braking if necessary
- Visible in low light conditions using front lights and reflectors

Water Micro Electric Mobility Solution

Watercraft require large amounts of power to move, especially at higher speeds, due to the exponential relationship between the speed and the required power to reach that speed. Electric batteries do not offer the same level of energy density as hydrocarbon-based sources of energy. Consequently, an electric system must be more efficient than a traditional hydrocarbon-fueled system to achieve the same performance. Submissions of an efficient solution should also address the following design criteria:

Context of use:

- Recreational Use
- Micro mobility transport
- Calm waters such as lakes, rivers, and harbors.
- Exercise (pedal assist version) is a bonus.

Formfactor:

- Light, compact, and easily transportable
- Collapsible and disassemble-able design
- Stable yet maneuverable (fun riding experience)
- Rider must stay dry riding
- Children, adults, and seniors should all be able to ride the product.

Performance:

- Min Speed: 20km/h
- Max Motor Power: 1.5kW
- Max Weight: 50kg
- Combining human and electric power is a bonus
- Transportable using SUV/Minivan when deflated and disassembled (Dimensions: 50" x 70" or 127 cm x 178 cm)

All-Terrain Electric Platform

Existing off-road recreational vehicles like quads and side-by-sides have considerable environmental effects. Using fossil fuels and generating lots of noise to explore nature would be a paradoxical and ironic choice. ENVO wants to take the challenge and develop electric mobility solutions to explore nature with excellent efficiency on the road and off-road. Here are the main design requirements for submissions in this category:

Context of use:

- Recreational use, paved road, and off-road.
- Horse ranches
- Agricultural and farm work
- Hunting
- Security patrolling (e.g., festivals, large commercial buildings, etc.)
- Search and Rescue

Formfactor:

- Four wheels, stable design with a low center of gravity
- Hub motors; either two or four-wheel drive.
- Front and rear suspension. Travel to be determined by the designer.
- Optional: Suspension could also be used as a steering input with a leaning mechanism,
- The cockpit can be enclosed/weatherproof or open.
- A modular platform is desirable, so variable options like seats and extendable cargo can be added or removed.
- Swappable and modular batteries to be used.

Performance and constraints:

- Speed: 65 km/h
- Motor power: Minimum of 3 kW.
- Range: Minimum 80km
- Width: Maximum 110cm
- Wheelbase: Maximum 200cm
- Weight: Maximum 140kg (including batteries)
- Power input: No constraints. Examples: Thumb throttle, foot pedal, etc.
- Steering input: No constraints. Designer to consider power steering depending on the application. Examples: handlebar, leaning mechanism, etc.
- Brakes: Hydraulic disc brakes. Regenerative braking is optional.
- Wheel and Tire size: No constraint.
- Lights: High power front lights + rear braking lights. Other lights are optional.
- Turning Radius: 5m maximum

Weather Protected Electric Bike/Trike (Velomobile)

Currently, there is a good variety of electric bikes and trikes on the market. However, most products are not designed for all weather conditions. There's a void in the market for weather-protected e-Bikes and e-Trikes that can be used in the city and to explore nature. This category allows for more freedom in ideation and brave concepts; however, there are some design requirements to be considered:

Context of use:

- The solution must be suitable for recreation and transportation.
- Commuting in the rain, sand storm, or high UV.
- Exercise (pedal assist ride)
- Used by city dwellers living in condos or small houses

Formfactor:

- The solution should be transportable by an SUV or a minivan.
- Must fit in a standard bike lane.
- Light, compact, and easily transportable
- Maximum three wheels
- Powered by Hub motor
- Take-apart design for easy shipping and storage
- Cockpit enclosed and weatherproof
- Optional: Protect rider from air pollution

Performance and constraints:

- Max Speed: 32 km/h
- Max Motor power: 500W
- Range: Minimum 40km
- Max Width: 36in (must fit inside bike lane)
- Max Weight: 65kg
- Payload or Child Seat Carrying capacity
- Front Screen to have anti-fog or water repellent design (wipers etc.)

The cutting-edge micro-mobility solution of the future:

Do you have an impressive micro-mobility solution that does not fit the above categories? There is still an opportunity for you to join the challenge with an innovative yet feasible design. The overall requirements include:

Context of use:

- Define a clear user group and also think about where the solution is going to be used. There must be a clear demand for the solution. You can think about either an existing gap in the market or an emerging demand.

Formfactor:

- The form factor should be transportable according to the context of use. Remember to consider enough space for batteries and a motor suitable for the way the design is going to be used.

Performance and constraints

- The design should be presented in a way that one can understand the approximate dimensions, range, and weight proposed for the solution, as well as the rationale behind those specifications.



Evaluation Criteria

As ENVO Next Move is a part of ENVO's distributed innovation initiative, the design evaluation criteria combine innovativeness and feasibility. In addition to the design criteria mentioned for each category, the jury will consider the following requirements with the same weight given for each numbered section:

1. Technology Feasibility and Vision:

Designs should be futuristic, creative, and feasible. Understanding the tech trends that might not have been adopted yet, but can shape the future of micro-mobility is of great importance.

2. Innovative Yet Simple:

Increasing demands for efficiency and minimum environmental impact dictate new design principles, including simplicity in form and technical parts. Designers must think about innovative designs that can embrace simplicity. It is a challenging balance to address, but it can guarantee design success once met.

3. Social Awareness:

Designs should take into account the way that the socioeconomics of mobility will change. Designers must consider the values of their user group and how they evolve in the future in connection with mobility.

4. Sustainability:

Environmental and social sustainability principles must be embedded in designs. The solution must contribute to a more suitable mobility behavior and an inclusive, diverse, and resilient society. Another critical aspect of sustainable design is a sustainable product life cycle with a minimum environmental footprint.

5. Business Viability:

Designs must ensure long-term business viability. The design must be based on a transparent business model and a visible market demand. Remember that it should thrive in the turbulent market of mobility.



Juries

The jury members' list and biographies will be published at <https://nextmove.envodrive.com/> on 31/10/2022.

Competition participants or their representatives shall under no circumstances contact the jury members.

All competition-related communications should be carried out solely with ENVO Next Move team.

ENVO Next Move is a Next Generation Micro-mobility Design contest that encourages participants to redefine the boundaries of micro-mobility transportation. The jury will select entries that show a high degree of creativity, even if they breach design guidelines, as long as this is justified.

ENVO is committed to selecting the most qualified industry professionals to comprise its jury panel. Jury members consist of designers and micro-mobility experts and professionals from other professional backgrounds relevant to the competition topic to guarantee the most objective competition results.



Prizes

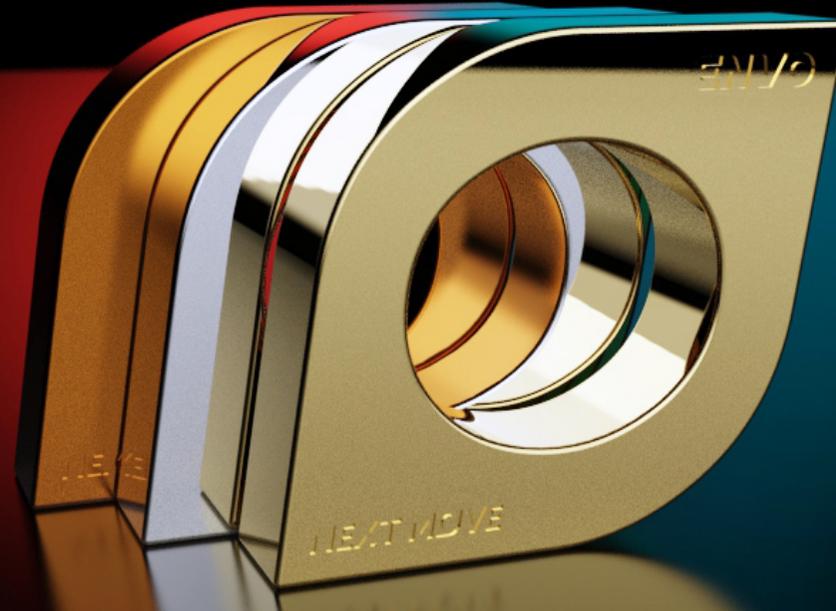
All the contributors' design entries will be judged by ENVO technical team, and then the 50 best ideas will be chosen to proceed.

An international jury will choose the best three submissions from the 50 Finalists, based on the Evaluation Criteria. Designers of these submissions will receive a \$10,000 CAD cash prize in total. Cash prizes of \$5000 CAD, \$3000 CAD, and \$2000 CAD, will be awarded to the first, second, and third place winners, respectively. In case a team is behind a winning design, the cash prize will be equally distributed among team members.

Golden Buzzer Fund \$5000

The Golden Buzzer Fund provides leading minds with the opportunity to partner with ENVO in prototype development of their design for the eventual mass production of their concept.

Total Prize
10,000 C\$
+
5,000 C\$
Golden Buzzer Fund



2ND PRIZE

3,000 C\$

Silver Trophy
Certificate of Achievement

1ST PRIZE

5,000 C\$

Gold Trophy
Certificate of Achievement

3RD PRIZE

2,000 C\$

Bronze Trophy
Certificate of Achievement

Golden Buzzer

If the organizer realizes that a design has an extraordinary potential for creating a viable and innovative product, the Golden Buzzer option may be used.

Out of the first 50 submissions, ENVO will review and potentially select one idea to allocate \$5000 CAD fund, for future development of the submitted concept to make a prototype, jointly with the the designer.

The Golden Buzzer Winner will be receiving a partnership agreement from Envo which clarifies their rights and benefits. In this case, ENVO will negotiate the possibility of transfer of the ownership rights, prototyping, or mass production of the design with the participant(s) regardless of the timeline and procedure of the competition. This option can be used only once during the competition.



Terms & Conditions

- I. ENVO is not obliged to accept any submission and it may reject all submissions. By submitting a design, the participant agrees with ENVO that ENVO will not be responsible for any costs, losses, damages, or liabilities incurred to them as a result of or arising out of this competition.
- II. The participant is at least 19 years of age or the Participant's parent or guardian has consented to the participation in the competition, furthermore parent or guardian must agree to the terms and conditions.
- III. The participant represents and warrants that:
 1. the design is and will be a unique and original design derived solely from the Participant and does not and will not in any way infringe upon any copyright or other intellectual property rights in any other works;
 2. the Participant has not heretofore sold, assigned, transferred, or licensed any rights in the Design, and all such rights are entirely free and clear of any liens or other encumbrances;
 3. the Participant will do nothing to sell, assign, transfer or license in whole or in part or in any way encumber its interests at any time existing in the Design.
- IV. The Participant hereby releases and forever discharges ENVO from any and all complaints, demands, claims, actions, lawsuits, judgments, and orders of any kind for and in respect of any and all losses, injuries, damages, and expenses of any kind to which the Participant may become entitled or which the Participant may suffer, incur or experience in connection with the competition.
- V. The Participant shall defend, indemnify and hold ENVO harmless from and against any and all damage, liability, cost, and expense incurred by ENVO in connection with any claim by a third party that the Design or the Works infringed, misappropriated, or misused its copyright, patent, trademark, trade secret, or confidential or proprietary information.
- VI. The Participant hereby grants to ENVO an unrestricted, unconditional, perpetual, royalty-free license to use, copy, display, amend, reproduce, modify and create derivative works of the Design for any purpose whatsoever, including but not limited to the social media posting, manufacturing, etc.
- VII. The Participant agrees that other than the prizes described above, they will not be entitled to any compensation or benefits of any kind in connection with their submission of the Design, or otherwise in connection with this competition.
- VIII. Submissions that do not follow the requirements mentioned in "2. Who is eligible to participate" and "3. How to join" will be removed from the competition without notice.
- IX. The winners agree to sign an assignment of copyright of the winning design to ENVO.
- X. If one of the submissions is not amongst the three best designs, ENVO may pay up to \$2000 to the participant for the assignment of copyright to ENVO.
- XI. ENVO has the right to cancel, modify, and suspend an event or part of the event.
- XII. This contest is not open to the residents of Quebec.
- XIII. By submitting a design to the ENVO Next Move contest, the participant agrees to the above terms and conditions.



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nextmove.envodrive.com

For any questions, please contact at:

contact@nextmove.envodrive.com.