

REAL CARS FOR REAL PEOPLE

The goal of the Progressive Insurance Automotive X PRIZE is to inspire a new generation of viable, safe, and super fuel-efficient vehicles. \$10 million in prizes will be awarded to the teams that win a rigorous stage competition for clean, production-capable and super fuel efficient vehicles that exceed 100 MPGe (100 Miles per Gallon or Energy Equivalent).

The Progressive Insurance Automotive X PRIZE seeks to increase global awareness of more fuel efficient, clean vehicle options, enabling their development and stimulating marketplace demand. We are after nothing less than transformative change. To accomplish this paradigm shift, it's important that we demonstrate not just one or two designs that can accomplish this goal, but a new generation of vehicles that can be manufactured in volume –vehicles that consumers will want to drive.

Established automakers, start-ups, universities, inventors, and even a high school are among the diverse groups of teams representing 14 U.S. states and nine countries. These teams are now one step closer to their share of the \$10 million prize purse, to be awarded this September to those that survive the rigorous multi-stage competition.

ASPECTS OF THE COMPETITION

This competition will place a major focus on affordability, safety, and the environment. The Progressive Insurance Automotive X PRIZE is about real cars, meeting real standards that consumers want to buy, not science projects or concept cars. The competition's gauge of success will be a new benchmark, called MPGe, for Miles per Gallon or Energy Equivalent that will take into account energy equivalence no matter what the source. Extremely low emissions will also be required in order to stem the effects cars are having on climate change.

- 1. Vehicle Design:** Ambitious teams from around the world will design and build production-capable, super fuel-efficient and clean vehicles. Vehicles must be proven to meet rigorous standards, including:
 - High fuel economy (100 MPGe) with low emissions (200 g/mi CO₂e wells-to-wheels greenhouse gas emissions and low tailpipe emissions)
 - Production-capable and designed to reach the market in volumes of at least 10,000 units per year
 - Safe and affordable
 - Minimum capacities, performance, and features
- 2. Vehicle Qualification:** A thorough qualification process, completed in October 2009, assessed safety, cost, features and business plans to ensure only production-capable, real cars compete.
 - Mainstream class = Vehicles that meet current consumer expectations for size and capability
 - Alternative class = Outlet for innovative ideas that push forward today's concept of "what a car is"
- 3. Vehicle Testing:** Vehicles will be tested for efficiency, performance, and durability under real-world conditions:
 - Technology and fuel neutral
 - Simulated city, hill, distance, and speed segments
 - Vehicles with best overall time in the competition events that meet the minimum requirements will split the purse: Half of the \$10M prize purse will be awarded to the Mainstream Class winner. The remaining \$5M will be split between two winners in the Alternative Class - one vehicle with side-by-side seating, and one vehicle with tandem seating

The Progressive Insurance Automotive X PRIZE has chosen the state of Michigan to host its intense multi-stage competition that will pit competitor vehicles against one another in a quest to win their share of the \$10 million prize purse. On-track testing events will take place between April 26 and July 30, 2010 at the Michigan International Speedway in Brooklyn, MI, followed by three weeks of dynamometer testing within a controlled laboratory at Argonne National Laboratory outside of Chicago, IL. Awards will be presented in September 2010. **Keep reading for a complete schedule of testing events. For more details, visit www.progressiveautoxprize.org.**

COMPETITION EVENTS

Dates and details of the competition events are as follows:

Shakedown Stage: April 26-May 7, 2010 Michigan International Speedway (MIS) Brooklyn, MI

The Shakedown Stage is a non-scored stage, designed to provide teams a chance to “shake out” their vehicles in advance of the scored Knockout Qualifying Stage in June. Teams will still be judged on their performance, specifically in emissions and efficiency tests, but these scores will not be counted against the overall score that ultimately determines the competition winners. However, only those vehicles that are deemed safe after in-garage inspections and on-track tests will be allowed to progress to the Knockout Qualifying Stage. Though all teams will be afforded opportunities to re-test, they face elimination from the competition if they are unable to pass the prescribed safety evaluations.

Knockout Qualifying Stage: June 20-30, 2010 Michigan International Speedway (MIS) Brooklyn, MI

To narrow the field of competitors, Progressive Insurance Automotive X PRIZE officials will re-conduct inspections and certify readiness to compete in the Knockout Stage challenges. In order to pass, teams must demonstrate that their vehicles can achieve at least two-thirds of the stated 100 MPGe (miles per gallon or energy equivalent) goal while also meeting key thresholds for range, emissions, and real world performance. Teams that fail go home; teams that pass move on to the Finals Stage.

Finals Stage: July 19-30, 2010 Michigan International Speedway (MIS) Brooklyn, MI

To identify the top finalists in each class, after a quick repeat of the static and dynamic safety checks, the remaining teams will compete in scored on-track challenges to include acceleration and braking, emergency lane change, city and highway efficiency tests, range and durability tests, and emissions tests among others. The event closes with a “coast down” exercise to gain key performance information about the aerodynamics and rolling resistance to properly prepare the vehicles for the validation stage. Speed will be important and a maximum and minimum time for events will be established.

Validation Stage August 1-21, 2010 Argonne National Labs (ANL) Chicago, IL

In this final technical event, the top finalists in both the Mainstream and Alternative classes will undergo dynamometer testing under controlled laboratory conditions at a certified lab to verify technical performance results. The results of this testing, combined with the speed, efficiency and emissions results from the earlier events at Michigan International Speedway, will determine the winners of the Progressive Insurance Automotive X PRIZE.

COMPETING TEAMS:

The following is a complete list of the 28 Qualified Teams, representing 36 vehicles, along with the class in which they will compete and their fuel type. Note that some teams have entries in both classes. For more information on these teams, please visit www.progressiveautoxprize.org.

Mainstream Class Teams: Must carry four or more passengers, have four or more wheels, and offer a 200-mile range.

American HyPower, Centennial, Colo. (Gasoline + Hydrogen)	Envera, Mill Valley, Calif. (Gasoline)
APET-X Hong Kong, China (Electric)	Global-E, Mandeville, La. (Gasoline & Electric)
BITW Technologies, Palmyra, Ind.(Biodiesel)	Illuminati Motor Works, Virden, Ill. (Electric)
Cornell 100+ MPG Team, Ithaca, NY (Biodiesel)	Liberty Motors Group, Botkins, Ohio (Gasoline)
Edison2, Charlottesville, Va. (E85)	Team FourSight, Morgantown, WV (Biodiesel)
Enginer, Troy, Mich. (Gasoline + Steam)	West Philly Hybrid X (EVX), Philadelphia, Pa. (Gasoline)

Alternative Class Teams: Must carry two or more passengers, and allow for a 100 mile range.

Amp, Blue Ash, Ohio (Electric)	Tata Motors Limited, Coventry, UK (Electric)
Aptera Motors, Vista Calif. (Electric)	Team EVI, Mooresville, NC (Electric)
Edison2, Charlottesville, Va. (E85)	Team EVX, Dallas, Texas (Electric)
Envera, Mill Valley, Calif. (Gasoline)	Team FourSight, Morgantown, WV (Electric)
FVT Racing, Maple Ridge, BC (Gasoline)	TW4XP, Rosenthal, Germany (Electric)
K-Way MOTUS, Torino, Italy (Gasoline)	West Philly Hybrid X (EVX), Philadelphia, Pa. (Biodiesel)
OptaMotive, San Jose, Calif. (Electric)	Western Washington University, Bellingham, Wash.(Gasoline)
RaceAbout Association, Helsinki, Finland (Electric)	X-Tracer Team Switzerland, Uster, Switzerland (Electric)
Spira, Banglamung, Chonburi, Thailand (Gasoline)	ZAP, Santa Rosa, Calif. (Electric)
Tango (Commuter Cars), Spokane, Wash. (Electric)	

STRUCTURE AND SUPPORT

The Progressive Insurance Automotive X PRIZE is a project of the X PRIZE Foundation, which creates and manages prizes that drive Innovators to solve the world's greatest challenges. With the international success of the \$10 million Ansari X PRIZE in 2004, the X PRIZE Foundation is now recognized as the world's leader for prizes that bring about radical breakthroughs for the benefit of humanity.

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