

SEE AMERICA

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at the **ELECTREK AMERICAN
SOLAR CHALLENGE 2024**

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WELCOME!

Promoting educational excellence and engineering creativity, the American Solar Challenge (ASC) and Formula Sun Grand Prix (FSGP) are collegiate student design competitions. Teams from the US, Canada, and around the world design and build solar-powered vehicles within a set of regulations. Once at the event, these vehicles are put through a series of inspections, a process known as scrutineering. Teams that successfully pass scrutineering and qualify during the track event will then take on the 1500+ mile route to see America by National Historic Trail.



SCHEDULE

CHECK OUT THE
ROUTE MAP >>>



JULY 13-15 SCRUTINEERING

Scrutineering, where teams **undergo rigorous inspections to ensure their vehicles meet all safety and design standards**, begins at NCM Motorsports Park in Bowling Green, KY. Scrutineering includes checks on electrical systems, battery protection, mechanical integrity, and overall regulation compliance.

JULY 16-18 ELECTREK FORMULA SUN GRAND PRIX

Electrek Formula Sun Grand Prix (FSGP) is a three-day track event at NCM Motorsports Park. Teams will compete to **complete as many laps as possible within 24 hours of driving time**. Each day features 8 hours of racing, with teams utilizing solar power to achieve maximum efficiency and speed. The FSGP serves as a qualifying event for the ASC, testing the roadworthiness and performance of each solar vehicle.

JULY 19TH BRIDGESTONE DISPLAY DAY

The Bridgestone Display Day and practicality judging at the Adventure Science Center in Nashville, TN is **open to the public** and allows spectators to view the innovative solar cars up close, meet the teams, and learn about the technology behind these cutting-edge vehicles.

JULY 20-27 ELECTREK AMERICAN SOLAR CHALLENGE

The main event, the Electrek American Solar Challenge, will take teams through Tennessee, Kentucky, Illinois, Missouri, Kansas, Nebraska, and Wyoming. The journey is designed to test the endurance and efficiency of the solar cars. Check out the American Solar Challenge Route Map for the full list of stops to catch the cars in your city.



The Formula Sun Grand Prix is not in any way associated or affiliated with the Formula 1 companies, FORMULA 1 racing, or the FIA Formula One World Championship.

2024 US Collegiate
Solar Car

MEET THE TEAMS

Representing a variety of universities and colleges, these teams have taken on the nominal 2-year project of designing, building, and testing a solar powered vehicle to prepare for competition. The teams are split into two classes for the events.



2 CLASSES

SINGLE-OCCUPANT VEHICLES (SOV)



- Seats 1 person
- Smaller allowable solar array size
- Batteries are limited by weight
- No recharging via external sources (penalty would be incurred)
- Scoring is based on the official distance completed, including any penalties incurred. (Ties are determined by the lowest overall elapsed time.)

MULTI-OCCUPANT VEHICLES (MOV)



- Seats 2 or more people
- Larger allowable solar array size
- No limit on amount of batteries
- Recharging via external sources is allowed and energy is metered
- Scoring is a combination of an energy efficiency score (people-distance, time, and external recharging) and a practicality score
- Targeting an average speed of at least 35mph (ASC) and 30mph (FSGP)

PURDUE UNIVERSITY PURDUE SOLAR RACING



#1 - LUX

L x W x H: 5.00m x 1.00m x 1.20m
Weight: 170kg
Array: 957.44W
Batteries: 5.2635kWh Lithium Ion (20kg)
Motor: 1 Mitsuba DC brushless motor in-wheel DD
Wheels: 3 GH Craft Carbon Fiber 16"
Chassis: Monocoque Carbon Fiber

UNIVERSITY OF MICHIGAN UNIVERSITY OF MICHIGAN SOLAR CAR



#2 - ASTRUM

L x W x H: 5.00m x 1.20mm x 1.00mm
Weight: 162.5kg
Array: 1000W
Batteries: 7.573kWh Lithium Ion Polymer (20kg)
Motor: 1 Mitsuba BLDC
Wheels: 3 S&S Die Aluminum 16"
Chassis: Monocoque Carbon Fiber Composite

UNIVERSITY OF KENTUCKY KENTUCKY



#3 - GATO DEL SOL VII

L x W x H: 3.75m x 1.90m x 1.24m
Weight: 250kg
Array: 1012W
Batteries: 5kWh Lithium Ion (20kg)
Motor: 2 Mitsuba 2096D3
Wheels: 4 CWMA Aluminum 16"
Chassis: Right Hand Drive Catamaran Aluminum Fiberglass Honeycomb Sandwich Composite

DALHOUSIE UNIVERSITY DALHOUSIE SOLAR CAR TEAM (DAL SOLAR CAR)



#7 - NOVA

L x W x H: 5.00m x 1.50m x 1.10m
Weight: 250kg
Array: 600W
Batteries: 5.29kWh Lithium Ion (19.3kg)
Motor: 1 Mitsuba BLDC
Wheels: 4 Custom Aluminum 14"
Chassis: Monocoque Foam Core Laminate Carbon Fiber Composite

THE UNIVERSITY OF TEXAS AT AUSTIN LONGHORN RACING SOLAR



#8 - DAYBREAK

L x W x H: 4.49m x 1.48m x 1.25m
Weight: 310kg
Array: 900W
Batteries: 5.241kWh Lithium Ion (19.64kg)
Motor: 1 Mitsuba Brushless AC Motor
Wheels: 4 Shinko Aluminum 16"
Chassis: 4130 Chromoly Steel

IOWA STATE UNIVERSITY PRISUM



#9 - ELIANA

L x W x H: 4.97m x 2.10m x 1.12m
Weight: 476kg
Array: 1187W
Batteries: 17.54kWh Lithium Ion (75kg)
Motor: 2 Mitsuba BLDC In-Hub
Wheels: 4 Custom Aluminum 16"
Chassis: Semi-monocoque Carbon Fiber

MASSACHUSETTS INSTITUTE OF TECHNOLOGY MIT SOLAR ELECTRIC VEHICLE TEAM



#4 - GEMINI

L x W x H: 4.00m x 1.50m x 1.00m
Weight: 440kg
Array: 1265W
Batteries: 13.662 kWh Lithium Ion (55.5kg)
Motor: 2 Mitsuba 2096 D3
Wheels: 4 Nomura Aluminum 16"
Chassis: Monocoque Carbon Fiber / Aluminum Honeycomb Composite

UNIVERSITY OF FLORIDA SOLAR GATORS



#5 - SUNRIDER

L x W x H: 5.00m x 1.00m x 1.50m
Weight: 225kg
Array: 1000W
Batteries: 5kWh Lithium Ion (20kg)
Motor: 1 Mitsuba
Wheels: 4 Custom Aluminum 16"
Chassis: Space Frame 4130 Steel

UNIVERSITY OF CALIFORNIA BERKELEY CALSOL



#6 - EXCALIBUR

L x W x H: 4.82m x 1.60m x 1.31m
Weight: 223kg
Array: 1010W
Batteries: 5.9kWh Lithium Ion (19.99kg)
Motor: 2 Mitsuba M1096D-III
Wheels: 4 Custom Tubeless 16"
Chassis: Composite Monocoque Carbon Main Chassis is Carbon Fiber Sandwich Panels

TEXAS A&M UNIVERSITY TEXAS A&M SOLAR CAR RACING TEAM



#12 - DUODECIM

L x W x H: 4.50m x 1.80m x 1.05m
Weight: 304kg
Array: 1000W
Batteries: 5kWh Lithium Ion (19.95kg)
Motor: 1 Mitsuba 2096 DC brushless in-wheel
Wheels: 4 Xometry 7075-T6 Aluminum 16"
Chassis: Composite Kevlar Honeycomb Core

MICHIGAN STATE UNIVERSITY MSU SOLAR RACING TEAM



#13 - CYNISCA

L x W x H: 4.34m x 2.00m x 1.25m
Weight: 760kg
Array: 930W
Batteries: 4.92kWh LION (19kg)
Motor: 2 Marand Hub Motor
Wheels: 4 MikeXS Aluminum 16"
Chassis: Spaceframe Chassis 4130 Chromoly Steel

STANFORD UNIVERSITY STANFORD SOLAR CAR PROJECT



#16 - AZIMUTH

L x W x H: 4.97m x 1.20m x 0.95m
Weight: 1250kg
Array: 600W
Batteries: 5.022kWh Lithium Ion (19.58kg)
Motor: 1 Mitsuba DC brushless motor in-wheel DD
Wheels: 4 Bridgestone Machined 6061 Aluminum 16"
Chassis: Composite Panels, Carbon Fiber/Aluminum Sandwich Panel

MEET THE TEAMS

OR START YOUR OWN!

The field of universities with solar car teams continues to grow. The solar car project provides a great multi-disciplined experience for today's students that will become tomorrow's leaders. FSGP/ASC events are open to university/college teams from around the world. Join these universities and more at the next event!

Stay connected with the Electrek American Solar Challenge through our live standings and checkpoint updates! As teams travel from Tennessee to Wyoming, you can track their progress at each checkpoint, see the current standings, and get the latest updates on their performance. Keep up with the teams and check in on key moments as we provide up to date information on the competition's dynamics and each team's journey. Follow your favorite teams and witness the advancements in solar-powered vehicle technology as they unfold. For more details and live updates, visit AmericanSolarChallenge.org or scan the QR code.

STANDINGS & CHECKPOINT UPDATES



ILLINOIS STATE UNIVERSITY ISU SOLAR CAR TEAM



#17 - MERCURY 6

L x W x H: 4.5m x 1.40m x 1.10m
Weight: 220kg
Array: 800W
Batteries: 5.2kWh Lithium Ion (19.68kg)
Motor: 1 Mitsuba Hub
Wheels: 4 Keisuke Nomura Carbon Fiber 18"
Chassis: Moncoque Carbon Fiber

VIRGINIA TECH SOLARCAR AT VIRGINIA TECH



#21 - SUN GOBBLER

L x W x H: 4.50m x 1.85m x 1.23m
Weight: 323kg
Array: 960W
Batteries: 5.165kWh Lithium Ion (19.89kg)
Motor: 1 Aegean Dynamics 3-Phase Brushless DC
Wheels: 4 Custom Aluminum 16"
Chassis: Space Frame 4130 Chromoly Steel

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN ILLINI SOLAR CAR



#22 - CALYPSO

L x W x H: 5.00m x 1.20m x 1.06m
Weight: 180kg
Array: 1071W
Batteries: 5kWh Lithium Polymer (19.40kg)
Motor: 1 Mitsuba DC Hub Motor
Wheels: 3 GH Craft / Nomura Carbon Fiber / Aluminum 16"
Chassis: Moncoque Carbon Fiber Sandwich Panel

UNIVERSITY OF MINNESOTA UNIVERSITY OF MINNESOTA SOLAR VEHICLE PROJECT



#35 - GAIA

L x W x H: 4.95m x 1.92m x 1.19m
Weight: 500kg
Array: 1220W
Batteries: 23.3kWh Lithium Ion (80kg)
Motor: 2 Custom BLDC Permanent Magnet
Wheels: 4 UMNSVP and Panther Precision Machine Aluminum 16"
Chassis: Moncoque Composite

MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY MISSOURI S&T SOLAR CAR DESIGN



#42 - INDEPENDENCE

L x W x H: 4.32m x 1.35m x 1.14m
Weight: 189kg
Array: 595W
Batteries: 5.206kWh Lithium Ion (19.95kg)
Motor: 1 Mitsuba Wheel Motor
Wheels: 4 Custom 7075-T6 Aluminum 16"
Chassis: Car Carbon Fiber

GEORGIA INSTITUTE OF TECHNOLOGY GEORGIA TECH SOLAR RACING



#49 - SR-4 AURORA

L x W x H: 4.98m x 2.16m x 1.25m
Weight: 592kg
Array: 1233W
Batteries: 14.3kWh Lithium Ion (80kg)
Motor: 2 GEM In-Hub Radial Flux
Wheels: 4 EVOD Aluminum 16"
Chassis: Semi-Moncoque Carbon Fiber

UNIVERSITY OF WATERLOO MIDNIGHT SUN SOLAR CAR TEAM



#24 - MSXV

L x W x H: 4.95m x 1.85m x 1.10m
Weight: 220kg
Array: 920W
Batteries: 5.2kWh Lithium Ion (20kg)
Motor: 1 Mitsuba M2096-III
Wheels: 4 Custom Stema Punch & Die Inc. 6061 Aluminum 16"
Chassis: Space Frame 4130 Steel

UNIVERSITY OF BRITISH COLUMBIA UBC SOLAR



#26 - BRIGHTSIDE

L x W x H: 4.98m x 1.34m x 1.27m
Weight: 250kg
Array: 482.56W
Batteries: 5.2635 kWh Lithium Ion (20kg)
Motor: 1.2kW Mitsuba M2096-D3 (Brushless DC)
Wheels: 4 Nova Machine Works LTD 7075-T6 16"
Chassis: Tubular Frame 4130 Steel

PRINCIPIA COLLEGE PRINCIPIA SOLAR CAR



#32 - RA XI

L x W x H: 3.90m x 1.80m x 1.07m
Weight: 200kg
Array: 800W
Batteries: 4.5kWh Lithium Polymer (20kg)
Motor: 2 Mitsuba BDLC Hub Motor
Wheels: 4 GH Craft Carbon Fiber 16"
Chassis: Space Frame Chromoly Steel

POLYTECHNIQUE MONTRÉAL ESTEBAN



#55 - ESTEBAN 11

L x W x H: 4.92m x 1.81m x 1.04m
Weight: 330kg
Array: 1218W
Batteries: 9.216kWh Lithium Ion (47kg)
Motor: 2 M2096D-III Mitsuba Hub Motors
Wheels: 4 Nomura Carbon Fiber Rims 16"
Chassis: Moncoque Carbon Fiber

FLORIDA POLYTECHNIC UNIVERSITY FLORIDA POLY PHOENIX RACING



#79 - SPARK MK1

L x W x H: 4.80m x 1.70m x 1.40m
Weight: 250kg
Array: 900W
Batteries: 4.611kWh Lithium Ion (18.90kg)
Motor: 1 Mitsuba M2096-III Hub Motor
3 Volkswagen Steel front,
Wheels: Nomura Aluminum rear 16"
Chassis: Tubular Frame 4130 Chromoly Steel

UNIVERSITY OF VIRGINIA SOLAR CAR AT UVA



#87- RIVANNA 2S

L x W x H: 4.95m x 1.27m x 1.08m
Weight: 320kg
Array: 600-800W
Batteries: 5.016kWh Lithium Ion (20kg)
Motor: 1 Mitsuba Brushless Motor
Wheels: 4 Bridgestone Rubber 14"
Chassis: Steel Space Frame 1" 1020 Steel Tubes

SEE AMERICA by National Historic Trail

National historic trails paint a colorful picture of our nation's diversity and history. The trails follow historic routes used for exploration, migration, struggle, trade, and military action.

Along the way you will visit historic sites, walk trails, float waterways, visit parks, and see America.

The Electrek American Solar Challenge 2024 follows portions of seven national historic trails and Route 66 from Nashville, Tennessee, to Casper, Wyoming.



Scan for more information including host locations, event schedules, and national historic trails sites to visit along the route. Or visit: go.nps.gov/SolarChallenge



Trail of Tears

Remember and commemorate the survival of the Cherokee people, forcefully removed from their homelands in 1838-1839.
www.nps.gov/TRTE



Lewis and Clark

Follow the trail to find the people, places, and stories that make up the complex legacy of the 1803 - 1806 expedition.
www.nps.gov/LECL



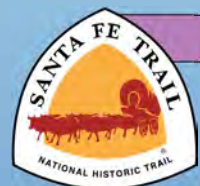
Pony Express

Ride along with the young men who carried mail from Missouri to California in just 10 days in this practical means of east-west communication.
www.nps.gov/POEX



California

Catch "gold fever" and see what drew 250,000 emigrants to the gold fields and rich farmlands of California during the 1840s and 1850s.
www.nps.gov/CALI



Santa Fe

Travel in the footsteps of trail hands who hitched their oxen to freight wagons carrying cargo between western Missouri and Santa Fe, New Mexico.
www.nps.gov/SAFE



Mormon Pioneer

Explore the 1,300-mile route traveled by Mormons who fled Nauvoo, Illinois, to the Great Salt Lake Valley in 1846-1847.
www.nps.gov/MOPI



Oregon

Retrace 2,000 miles of overland travel, viewing trail ruts and other reminders of the sacrifices, struggles, and triumphs of western expansion.
www.nps.gov/OREG



Route 66

Discover the Mother Road through historic places and reminders of the influence of the automobile on our lives and nation today.
www.nps.gov/subjects/travelroute66



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Visit us online at [Electrek.co](https://electrek.co).



FAQ
CORNER

HOW DO SOLAR CARS WORK?

Solar cars use photovoltaic cells to convert sunlight into energy. This energy powers an electric motor to make the car go or can be used to charge batteries to store energy for those not-so-sunny days.

HOW FAST CAN THE SOLAR CARS GO?

Teams must obey posted speed limits, and regulations limit the cars to 65 mph for the event. During testing, some solar cars have reportedly reached speeds of 100+ mph.

WHAT ABOUT CLOUDY DAYS?

Solar cars carry batteries that can be charged using the solar cells on the car. When facing clouds or needing extra power, the car uses this stored energy. Hence, the solar cars can continue to drive in the clouds and rain, although likely at a slower speed to conserve energy.

IS THE FIRST TEAM ACROSS THE LINE THE WINNER?




Not necessarily. The winner of the single occupant vehicle class is determined based on the official mileage completed across all stages of the event, including optional loops and reduced for any penalties incurred. For the multi-occupant vehicle class, additional considerations of energy efficiency and practicality factor into the overall score.

THANK
YOU!

TO OUR VOLUNTEERS

These events would not be possible without the time and dedication of our incredible volunteers. From event staff and observers to jury members and MOV judges, their contributions before, during, and after the event are invaluable to the solar car community. We are deeply grateful for their unwavering support. Interested in volunteering for the ASC or FSGP? Email ascinfo@americansolarcarchallenge.org to join our team and make a difference!


MEET THE TEAMS



ÉCOLE DE TECHNOLOGIE SUPÉRIEURE ÉCLIPSE

#92 - ÉCLIPSE XI




L x W x H: 4.50m x 1.50m x 1.10m
Weight: 200kg
Array: 1000W
Batteries: 5kWh Lithium Ion (20kg)
Motor: 1 Marand Electric Machines Axial Flux Wheel Motor
Wheels: 4 GH Craft Carbon Fiber 16"
Chassis: Moncoque Carbon Fiber



UNIVERSITY OF WESTERN ONTARIO SUNSTANG

#96 - ICARUS




L x W x H: 4.95m x 1.27m x 1.08m
Weight: 320kg
Array: 600-800W
Batteries: 4.9kWh Lithium Ion (30kg)
Motor: 1 Mitsuba Brushless Motor
Wheels: 4 Bridgestone Rubber 14"
Chassis: Steel Space Frame 1" 1020 Steel Tubes



MCMASTER UNIVERSITY MCMASTER SOLAR RACING

#116 - ORIGIN




L x W x H: 4.11m x 1.96m x 1.17m
Weight: 475.74kg
Array: 991.2W
Batteries: 18.29kWh Lithium Ion (95kg)
Motor: 2 Mitsuba 3-phase motor
Wheels: 4 MMRI 7075 Aluminum 16"
Chassis: Tube Frame 4130N Steel



THE OHIO STATE UNIVERSITY BUCKEYE SOLAR RACING

**#614 - FARASII II POWER BY
INFRA METALS**

L x W x H: 4.47m x 1.72m x 1.30m
Weight: 347.91kg
Array: 979.77W
Batteries: 5.153kWh Lithium Ion (19.85kg)
Motor: 1 Mitsuba DC Brushless
Wheels: 4 Western Michigan University 6061-T6 Aluminum Alloy 16"
Chassis: Steel Tube-Frame Design 4130



UNIVERSITY OF THE PACIFIC TIGRES DEL SOL

#777 - MILAGRO

L x W x H: 3.81m x 1.40m x 1.52m
Weight: 185kg
Array: 972.95W
Batteries: 4.824kWh Lithium Ion (20kg)
Motor: 1 QS Motors 3 phase Hub Motor
Wheels: 3 Custom Aluminum with Carbon Fiber 14"
Chassis: MIG Welded Plain Carbon Steel



WESTERN MICHIGAN UNIVERSITY SUNSEEKER SOLAR CAR PROJECT

#786 - SUNSEEKER 23

L x W x H: 4.90m x 1.35m x 1.12m
Weight: 180kg
Array: 1000W
Batteries: 4.914kWh Lithium Ion (19.95kg)
Motor: 2 Marand Integrated Hub Wheel Motor
Wheels: 3 GH Craft Carbon Fiber 16"
Chassis: Moncoque Carbon Fiber



MONTANA STATE UNIVERSITY BRIDGER SOLAR TEAM

#406 - LUMINOUS LEMON




L x W x H: 4.87m x 1.68m x 1.40m
Weight: 230kg
Array: 800W
Batteries: 5.19kWh Lipo (20kg)
Motor: 1 Mitsuba Brushless AC 3-Phase
Wheels: 4 Shinko Aluminium 16"
Chassis: Welded 6061 Aluminum



KENNESAW STATE UNIVERSITY SOLAR VEHICLE TEAM (SVT)

**#505 - KENNESAW SOLAR
RACER (KSR)**


L x W x H: 5.00m x 1.60m x 1.40m
Weight: 275kg
Array: 892W
Batteries: 4.942kWh Lithium Ion (19.97kg)
Motor: 1 Motenergy PMAC
Wheels: 3 Kawasaki Casted Aluminum & Steel 17"
Chassis: Space Frame 4130 Steel



UNIVERSITY OF WISCONSIN-MADISON BADGER SOLAR RACING

#608 - HELIOS

L x W x H: 4.95m x 1.35m x 1.28m
Weight: 245kg
Array: 970W
Batteries: 4.9kWh LiPo4 (35.5kg)
Motor: 1 Mitsuba DC Brushless in-wheel DD
Wheels: 4 Nomura Aluminum 16"
Chassis: Sandwich Panel Carbon Fiber



APPALACHIAN STATE UNIVERSITY TEAM SUNERGY

#828 - ROSE

L x W x H: 4.74m x 2.10m x 1.24m
Weight: 500kg
Array: 1212W
Batteries: 22.5kWh Lithium Ion (122.4kg)
Motor: 2 Mitsuba M2096-D3
Wheels: 4 Custom 7075 Aluminum 16"
Chassis: Honeycomb Sandwich Panel Carbon/Kevlar



Win \$10,000 in the Altair Challenge

Registered Teams will have the opportunity to compete in the Altair Challenge during Scrutineering and FSGP for a chance to win \$10,000 or other prizes! Find out more at the American Solar Challenge website.

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TEAM LIST

#1 Purdue University
 #2 University of Michigan
 #3 University of Kentucky
 #4 Massachusetts Institute of Technology
 #5 University of Florida
 #6 University of California, Berkeley
 #7 Dalhousie University
 #8 The University of Texas Austin
 #9 Iowa State University
 #12 Texas A&M University
 #13 Michigan State University
 #16 Stanford University

#17 Illinois State University
 #21 Virginia Tech
 #22 University of Illinois Urbana-Champaign
 #24 University of Waterloo
 #26 University of British Columbia
 #32 Principia College
 #35 University of Minnesota
 #42 Missouri University of Science and Technology
 #49 Georgia Institute of Technology
 #55 Polytechnique Montréal

#79 Florida Polytechnic University
 #87 University of Virginia
 #92 École de Technologie Supérieure
 #96 University of Western Ontario
 #116 McMaster University
 #406 Montana State University
 #505 Kennesaw State University
 #608 University of Wisconsin-Madison
 #614 The Ohio State University
 #777 University of the Pacific
 #786 Western Michigan University
 #828 Appalachian State University



ABOUT THE ORGANIZERS

Innovators Educational Foundation (IEF) is a 501c3 nonprofit that organizes the US collegiate solar car events. IEF is made up of a core group of dedicated volunteers, mostly former competitors, that know first-hand the value of a hands-on, multidisciplinary, innovative project to the educational experience.

In addition to experiential learning, these solar car events promote energy efficiency and raise public awareness of the capabilities of solar power.

