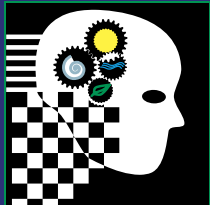


ABOUT THE ORGANIZERS:



INNOVATORS
EDUCATIONAL
FOUNDATION

Innovators Educational Foundation (IEF) is a 501(c)3 nonprofit that organizes 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.



FOLLOW THE EVENT:

- AmericanSolarChallenge.org
- AmericanSolarChallenge
- AmericanSolarChallenge

- 1 Purdue
- 3 Kentucky
- 5 Florida
- 6 Berkeley
- 8 UT Austin
- 9 Iowa State
- 10 RIT
- 11 Northwestern
- 13 Michigan State
- 16 Stanford
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- 18 Washington
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- 22 Illinois
- 24 Waterloo
- 26 British Columbia
- 42 Missouri S&T
- 49 Georgia Tech
- 55 Poly Montreal
- 57 SIUE
- 65 Calgary
- 66 Rutgers
- 77 Toronto
- 79 Florida Poly
- 87 Virginia
- 95 UC Irvine
- 96 Western Ontario
- 99 NC State
- 116 McMaster
- 406 Montana State
- 777 UOP
- 786 Western Michigan
- 787 Puerto Rico
- 828 App State

July 3rd – 5th, 2025
NCM Motorsports Park
Bowling Green, KY

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ELECTREK
FORMULA SUN
GRAND PRIX

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ALTAIR CHALLENGE



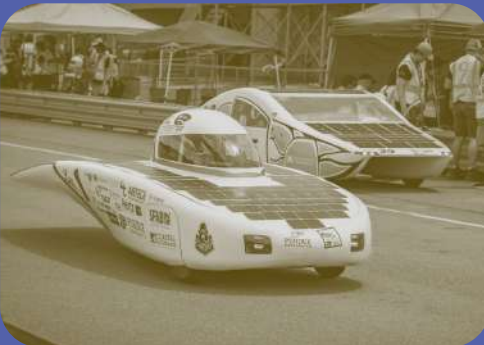
LoadView Evan Stumpges
Stuart Gales Virtual Latinos
Caterpillar Foundation Dotcom-Monitor

The Electrek Formula Sun Grand Prix is a three-day track event. 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 will take to the track 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.



National Corvette Museum
Motorsports Park
Bowling Green, KY

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.



EVENT SCHEDULE	
30 JUN	MONDAY 10am-7pm: Scrutineering
1 JUL	TUESDAY 9am-7pm: Scrutineering 10am-8pm: Altair Challenge
2 JUL	WEDNESDAY 9am-7pm: Scrutineering 10am-8pm: Altair Challenge
3 JUL	THURSDAY 10am-12pm: Altair Challenge 10am-6pm: Hot Track 6pm-8pm: Evening Charging
4 JUL	FRIDAY 7am-9am: Morning Charging 9am-5pm: Hot Track 5pm-8pm: Evening Charging
5 JUL	SATURDAY 7am-9am: Morning Charging 9am-5pm: Hot Track 7pm: Awards Ceremony

MEET THE TEAMS

Single Occupant
Vehicle Class (SOV)



Multi Occupant
Vehicle Class (MOV)



1



LUX

Purdue University

L x W x H: 5x1.5x1.2 m
Weight: 185 kg
Battery: 5.22 kWh Li-Ion (20 kg)
Array: 957.44 W Silicon
Motor: 1.2kW Mitsuba
Wheels: 3 GH Craft Carbon Fiber
Chassis: Composite Monocoque

11



BASTET

Northwestern University

L x W x H: 4.50x1.69x1.22 m
Weight: 270 kg
Battery: 5.24 kWh Li-Ion (20 kg)
Array: 975 W Silicon
Motor: 2.5kW Mitsuba
Wheels: 4 GH Craft Carbon Fiber
Chassis: Steel Space Frame

13



CYNISCA

Michigan State University

L x W x H: 4.3x1.95x1.27 m
Weight: 463 kg
Battery: 4.92 kWh Li-Ion (40 kg)
Array: 1000 W Silicon
Motor: 2.10kW Marand
Wheels: 4 S&S Die Aluminum
Chassis: Steel Space Frame

16



AZIMUTH

Stanford University

L x W x H: 4.97x1.19x0.95 m
Weight: 228 kg
Battery: 5.02 kWh Li-Ion (19.6 kg)
Array: 600 W Silicon
Motor: 2.4kW Custom
Wheels: 4 Nomura Aluminum
Chassis: Composite Sandwich Panel

3



GATO DEL SOL VII

University of Kentucky

L x W x H: 3.75x1.9x1.24 m
Weight: 300 kg
Battery: 4.85 kWh Li-Ion (20 kg)
Array: 1012 W Silicon
Motor: 2.5kW Mitsuba
Wheels: 4 CWMA Aluminum
Chassis: Monocoque/Space Frame Hybrid

5



FLARE

University of Florida

L x W x H: 5x1.4x1.2 m
Weight: 285 kg
Battery: 5.22 kWh Li-Ion (20 kg)
Array: 1000 W Silicon
Motor: 1.5kW Mitsuba
Wheels: 4 Custom Aluminum
Chassis: Composite Sandwich Panel

6



EXCALIBUR

University of California Berkeley

L x W x H: 4.82x1.60x1.31 m
Weight: 237 kg
Battery: 5.9 kWh Li-Ion (20 kg)
Array: 1010 W Silicon
Motor: 2.25kW Mitsuba
Wheels: 4 Custom Metal
Chassis: Composite Monocoque

17



MERCURY 7

Illinois State University

L x W x H: 4.8x1.47x1.09 m
Weight: 163 kg
Battery: 5.2 kWh Li-Ion (20.7 kg)
Array: 971 W Silicon
Motor: 1.5kW Mitsuba
Wheels: 3 Nomura Carbon Fiber
Chassis: Composite Monocoque

18



SOCKEYE

University of Washington

L x W x H: 5x1.8x1.1 m
Weight: 415 kg
Battery: 4.98 kWh Li-Ion (19.1 kg)
Array: 971 W Silicon
Motor: 1.4kW Mitsuba
Wheels: 4 Custom Aluminum
Chassis: Composite Sandwich Panel

21



SUN GOBBLER

Virginia Tech

L x W x H: 4.5x1.85x1.23 m
Weight: 325 kg
Battery: 4.87 kWh Li-Ion (19.9 kg)
Array: 960 W Silicon
Motor: 1.75kW Aegean Dynamics
Wheels: 4 Custom Aluminum
Chassis: Steel Space Frame

8



DAYBREAK

University of Texas at Austin

L x W x H: 4.5x1.5x1.25 m
Weight: 320 kg
Battery: 5.24 kWh Li-Ion (19.7 kg)
Array: 905 W Silicon
Motor: 1.5kW Mitsuba
Wheels: 4 Nomura Aluminum
Chassis: Steel Space Frame

9



Not Provided

Iowa State University

L x W x H: not provided
Weight: not provided
Battery: 14.92 kWh Li-Ion
Array: not provided
Motor: 2.675kW Mitsuba
Wheels: not provided
Chassis: not provided

10



NOVA

Rochester Institute of Technology

L x W x H: 4.6x1.4x1 m
Weight: 315 kg
Battery: 4.7 kWh Li-Ion (18.2 kg)
Array: 967 W Silicon
Motor: 1.2kW Mitsuba
Wheels: 3 Nomura Aluminum
Chassis: Steel Space Frame

22



CALYPSO

University of Illinois

L x W x H: 5x1.2x1.06 m
Weight: 258 kg
Battery: 5.21 kWh Li-Ion (20 kg)
Array: 1071 W Silicon
Motor: 1.5kW Mitsuba
Wheels: 3 Carbon Fiber/Aluminum
Chassis: Composite Monocoque

24



MSXV

University of Waterloo

L x W x H: 4.95x1.85x1.1 m
Weight: 440 kg
Battery: 5.01 kWh Li-Ion (19.9 kg)
Array: 920 W Silicon
Motor: 1.5kW Mitsuba
Wheels: 4 Custom Aluminum
Chassis: Steel Space Frame

26



BRIGHTSIDE

University of British Columbia

L x W x H: 4.97x1.34x1.27 m
Weight: 270 kg
Battery: 5.24 kWh Li-Ion (35 kg)
Array: 483 W Silicon
Motor: 1.2kW Mitsuba
Wheels: 4 Nova Machine Works Aluminum
Chassis: Steel Space Frame

42



INDEPENDENCE

Missouri University of Science and Technology

L x W x H: 4.32x1.35x1.27 m
Weight: 252 kg
Battery: 5.22 kWh Li-Ion (20.8 kg)
Array: 595 W Silicon
Motor: 1.2kW Mitsuba
Wheels: 4 Custom Aluminum
Chassis: Composite Monocoque

49



SR-4

Georgia Institute of Technology

L x W x H: 4.98x2.16x1.25 m
Weight: 620 kg
Battery: 14.3 kWh Li-Ion (80 kg)
Array: 1233 W Silicon
Motor: 2.8kW GEM
Wheels: 4 EVOD Aluminum
Chassis: Composite Semi-Monocoque

55



ESTEBAN 11

Polytechnique Montréal

L x W x H: 4.92x1.81x1.04 m
Weight: 295 kg
Battery: 9.22 kWh Li-Ion (47 kg)
Array: 1218 W Silicon
Motor: 2.5kW Mitsuba
Wheels: 4 Nomura Carbon Fiber
Chassis: Composite Assembly

95



SOLEATER

University of California Irvine

L x W x H: 5x1.4x1.32 m
Weight: 215 kg
Battery: 3.78 kWh Li-Ion (19.3 kg)
Array: 865 W Silicon
Motor: 1.4kW QS Motor
Wheels: 3 VMS Racing Aluminum
Chassis: Steel Space Frame

96



ICARUS

University of Western Ontario

L x W x H: 4.77x1.78x1.17 m
Weight: 640 kg
Battery: 14.5 kWh Li-Ion (58.2 kg)
Array: 998 W Silicon
Motor: 2.5kW Mitsuba
Wheels: 4 BKW Technologies Aluminum
Chassis: Steel Space Frame

99



FENRIR

North Carolina State University

L x W x H: 3.56x1.52x1.3 m
Weight: 1400 kg
Battery: 19.66 kWh Li-Ion (91 kg)
Array: 996 W Silicon
Motor: 1.52kW PMDC
Wheels: 4 Audi Steel
Chassis: Steel Space Frame

57



ORION

Southern Illinois University
Edwardsville

L x W x H: 4.88x1.65x1.23 m
Weight: 193 kg
Battery: 4.35 kWh Li-Ion (19.4kg)
Array: 889 W Silicon
Motor: 1.7.5kW NGM
Wheels: 3 NGM Aluminum
Chassis: Steel Space Frame

65



SCHULICH ELYSIA

University of Calgary

L x W x H: 4.5x1.8x1.17 m
Weight: 545 kg
Battery: 18 kWh Li-Ion (69.1 kg)
Array: 1200 W Silicon
Motor: 2.10.4kW Marand
Wheels: 4 Custom Aluminum
Chassis: Composite Monocoque

66



AEROSOL

Rutgers University

L x W x H: 4.93x1.73x1.26 m
Weight: 236 kg
Battery: 4.47 kWh Li-Ion (17.3 kg)
Array: 968 W Silicon
Motor: 1.5kW Mitsuba
Wheels: 4 GH Craft Carbon Fiber
Chassis: Steel Space Frame

116



ORIGIN

McMaster University

L x W x H: 4.1x1.96x1.17 m
Weight: 489 kg
Battery: 12.96 kWh Li-Ion (60.4 kg)
Array: 840 W Silicon
Motor: 2.5kW Mitsuba
Wheels: 4 MMRI Aluminum
Chassis: Steel Space Frame

406



LUMINOUS LEMON

Montana State University

L x W x H: 4.89x1.23x1.4 m
Weight: 220 kg
Battery: 5.19 kWh Li-Ion (20 kg)
Array: 800 W Silicon
Motor: 1.15kW Mitsuba
Wheels: 4 Nomura Aluminum
Chassis: Aluminum Space Frame

777



YAKATAC

University of the Pacific

L x W x H: 4x1.8x1.22 m
Weight: 600 kg
Battery: 5.18 kWh Li-Ion (20.2 kg)
Array: 972.8 W Silicon
Motor: 1.10kW QS Motor
Wheels: 3 Custom Aluminum/Composite
Chassis: Steel Space Frame

77



AURORA

University of Toronto

L x W x H: 5x1.26x1.1 m
Weight: 205 kg
Battery: 5.25 kWh Li-Ion (22.7 kg)
Array: 1020 W Silicon
Motor: 1.5kW Mitsuba
Wheels: 3 Nomura Aluminum
Chassis: Composite Monocoque

79



SPARK MK. II

Florida Polytechnic University

L x W x H: 4.7x1.5x1.1 m
Weight: 240 kg
Battery: 5.24 kWh Li-Ion (20 kg)
Array: 975 W Silicon
Motor: 1.5kW Mitsuba
Wheels: 3 Nomura Aluminum
Chassis: Steel Space Frame

87



RIVANNA 3

University of Virginia

L x W x H: 4.88x1.68x1.4 m
Weight: 323 kg
Battery: 5.14 kWh Li-Ion (20.4 kg)
Array: 1190 W Silicon
Motor: 1.2kW Mitsuba
Wheels: 4 Nomura Aluminum
Chassis: Steel Space Frame

786



SUNSEEKER 23

Western Michigan University

L x W x H: 4.9x1.35x1.12 m
Weight: 180 kg
Battery: 4.9 kWh Li-Ion (19.3 kg)
Array: 1000 W Silicon
Motor: 2.4.35kW Marand
Wheels: 3 GH Craft Carbon Fiber
Chassis: Composite Monocoque

787



BORICUA BOLT-89

University of Puerto Rico Mayaguez

L x W x H: 3.66x2.1x1.46 m
Weight: 286 kg
Battery: 5.14 kWh Li-Ion (20 kg)
Array: 829 W Silicon
Motor: 1.5kW Mitsuba
Wheels: 4 Aluminum
Chassis: Aluminum Space Frame

828



ROSE

Appalachian State University

L x W x H: 4.74x2.1x1.24 m
Weight: 500 kg
Battery: 11.51 kWh Li-NMC (122.4 kg)
Array: 1212 W Silicon
Motor: 2.5kW Mitsuba
Wheels: 4 Custom Aluminum
Chassis: Composite Sandwich Panel



25 YEARS

OF THE FORMULA SUN GRAND PRIX

The Electrek Formula Sun Grand Prix 2025 marks the 25th anniversary of the first FSGP track event in 2000. After five Sunrayce events in the 1990s, the track qualifier was made into an event in its own right. As an annual event, FSGP provided collegiate teams an opportunity to compete with their solar cars every year instead of every two years for the road event. This allowed teams to train members between road events and compete more with their solar powered vehicles.

The first FSGP was held at Heartland Motorsports Park in Topeka, KS in 2000. Like ASC events of the time, there was an Open class and a Stock class. While the location, classes, and sponsors have changed over the years, the teams and their solar-powered vehicles continue to take on this hands-on, experiential learning challenge!



GET INVOLVED

If you are interested in forming a team to participate in future events or providing support to the program as an event partner, sponsor, or volunteer—please contact us!

Innovators Educational Foundation
1028 S Bishop Ave #314, Rolla, MO 65401
ief@americansolarchallenge.org

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