

APOLLO SOLAR CAR TEAM

TEAM OVERVIEW APOLLO SOLAR CAR TEAM



CAR NAME
APOLLO IX

UNIVERSITY
NATL. KAOHSIUNG UNIV. OF SCI. & TECH.

LOCATION
TAIWAN

WSC CLASS
CSIRO CRUISER

STATIC SCRUTINEERING
PASS



DAILY EVENT RESULTS

	Arrival time	Control stop	Kms from Darwin
Day 1	Oct 22 13:44:25	Katherine	317
Day 2	Oct 23 15:03:59	Tennant Creek	985
Day 3	Oct 24 13:55:29	Barrow Creek	1209.834
Day 4	Oct 25 12:13:12	Erlunda	1691.663

HOW MANY TIMES HAS YOUR TEAM PARTICIPATED IN THE EVENT?

We have participated 6 times in years 2003, 2005 2007, 2011, 2013 and 2017.

WHAT IS THE DESIGN PHILOSOPHY BEHIND YOUR SOLAR CAR?

Developing “green energy”, “safety”, “intelligence”, and “cloud-based” technologies for commercialized urban solar electric vehicle is the design philosophy of the Apollo Solar Car team. Also, we are committed to green power recycling and a sustainable future.

WHAT IS UNIQUE ABOUT YOUR SOLAR CAR?

The Apollo Solar Car (Apollo IX) is developing for a production-ready vehicle that is 4.5 meters long, 1.5 meters wide and 1.2 meters high, and can be converted into a 5-passenger saloon with a wider design in the future. The hood and roof of the two-passenger sports car are covered in self-developed flexible thin solar modules, and the expandable modular battery pack with the smart battery management system is installed in the safest space in the car and can travel 518 kilometers on a single charge.

WHY DOES YOUR TEAM VALUE PARTICIPATING IN THE BRIDGESTONE WORLD SOLAR CHALLENGE?

Responding to the dramatic global climate anomalies, many countries aim for “2050 Net Zero Emission”, including Taiwan. Both of “green energy” and “electric vehicles (EV)” are the trend to accelerate Net Zero Emission. Apollo Solar Car is actually electric car with photovoltaic modules (PVEV). The PVEV has two unique abilities: self-charging and energy-storage, which gains advantages over traditional EV. Commercial production of Apollo solar cars has always been the mission of the team. We hope to test and validate our designs through BWSC. BWSC is not just a competition but a big step towards our goal.

WHAT IS THE ONE THING YOUR TEAM IS LOOKING FORWARD TO WHEN YOU VISIT AUSTRALIA?

To test and validate the designs and performance of Apollo IX. Moreover, we look forward to talking with other teams from the world and to share knowledge with each other. Hope we can learn from the many experiences this time.

2023 TEAMS

2: UNIVERSITY OF MICHIGAN SOLAR CAR TEAM (TEAM/VIEW/407-UNIVERSITY-OF-MICHIGAN-SOLAR-CAR-TEAM)

3: BRUNEL SOLAR TEAM (TEAM/VIEW/371-BRUNEL-SOLAR-TEAM)

6: TOP DUTCH SOLAR RACING (TEAM/VIEW/404-TOP-DUTCH-SOLAR-RACING)

7: TEAM SONNENWAGEN AACHEN (TEAM/VIEW/401-TEAM-SONNENWAGEN-AACHEN)

8: INNOPTUS SOLAR TEAM (TEAM/VIEW/366-INNOPTUS-SOLAR-TEAM)

9: ADELAIDE UNIVERSITY SOLAR RACING TEAM (AUSRT) (TEAM/VIEW/364-ADELAIDE-UNIVERSITY-SOLAR-RACING-TEAM-AUSRT)

10: TOKAI UNIVERSITY SOLAR CAR TEAM (TEAM/VIEW/403-TOKAI-UNIVERSITY-SOLAR-CAR-TEAM)

13: TEAMARROW (TEAM/VIEW/402-TEAMARROW)

14: FUTUROSOLARE (TEAM/VIEW/380-FUTUROSOLARE)

15: WESTERN SYDNEY SOLAR TEAM (TEAM/VIEW/412-WESTERN-SYDNEY-SOLAR-TEAM)

18: UITM ECOPHOTON SOLAR RACING TEAM (TEAM/VIEW/406-UITM-ECOPHOTON-SOLAR-RACING-TEAM)

20: DURHAM UNIVERSITY SOLAR CAR (TEAM/VIEW/374-DURHAM-UNIVERSITY-SOLAR-CAR)

21: SOLAR TEAM TWENTE (TEAM/VIEW/394-SOLAR-TEAM-TWENTE)

23: HALMSTAD UNIVERSITY SOLAR TEAM (TEAM/VIEW/382-HALMSTAD-UNIVERSITY-SOLAR-TEAM)

25: VTC SOLAR CAR TEAM (TEAM/VIEW/410-VTC-SOLAR-CAR-TEAM)

27: SUNSWIFT RACING (TEAM/VIEW/399-SUNSWIFT-RACING)

28: AGNIRATH (TEAM/VIEW/365-AGNIRATH)

30: FAST - FLINDERS AUTOMOTIVE SOLAR TEAM (TEAM/VIEW/379-FAST--FLINDERS-AUTOMOTIVE-SOLAR-TEAM)

34: ITU ZES SOLAR CAR TEAM (TEAM/VIEW/385-ITU-ZES-SOLAR-CAR-TEAM)

35: UNIVERSITY OF MINNESOTA SOLAR VEHICLE PROJECT (TEAM/VIEW/408-UNIVERSITY-OF-MINNESOTA-SOLAR-VEHICLE-PROJECT)

37: GOKO HIGH SCHOOL (TEAM/VIEW/381-GOKO-HIGH-SCHOOL)

41: ANU SOLAR RACING (TEAM/VIEW/368-ANU-SOLAR-RACING)

46: JU SOLAR TEAM (TEAM/VIEW/386-JU-SOLAR-TEAM)

49: SIAM TECHNOLOGY MOTOR SPORT (TEAM/VIEW/392-SIAM-TECHNOLOGY-MOTOR-SPORT)

51: CHALMERS SOLAR TEAM (TEAM/VIEW/373-CHALMERS-SOLAR-TEAM)

57: SOLO: SEOUL NATIONAL UNIVERSITY SOLAR CAR TEAM (TEAM/VIEW/397-SOLO-SEOUL-NATIONAL-UNIVERSITY-SOLAR-CAR-TEAM)

61: WAKAYAMA UNIVERSITY SOLAR CAR TEAM (TEAM/VIEW/411-WAKAYAMA-UNIVERSITY-SOLAR-CAR-TEAM)

66: SOLARIDE (TEAM/VIEW/395-SOLARIDE)

67: ASCEND - DEAKIN UNIVERSITY SOLAR CAR TEAM (TEAM/VIEW/400-ASCEND--DEAKIN-UNIVERSITY-SOLAR-CAR-TEAM)

77: BLUE SKY SOLAR RACING (TEAM/VIEW/370-BLUE-SKY-SOLAR-RACING)

80: SUN SHUTTLE TEAM (TEAM/VIEW/398-SUN-SHUTTLE-TEAM)

82: SAITEM (TEAM/VIEW/390-SAITEM)

85: ACENTAURI (TEAM/VIEW/363-CENTAURI)