

Event Time Table and Regulation ver3



ECO 2016



WEM Japan Gran Prix Final Round

Energy Challenge Okinawa Committee

- Revision Record -

ver1 / 15th
September

-Length of the car revised
x 3m
o 3.5m

ver2 / 17th
September

- Page3 added

ver3 / 18th November

Refer to all those discriptions
marked with red.

The biggest change
on the ver3

2 heats system.
90min for each heat.
Free run both on day1 and 2

Number of the batteries
becomes 4.

Batteries provided for free run
is different from the ones for
competiton. So the
participants are to get ready
with connectors.

Time TABLE/ ECO2016 - WEM-GP2016 Final round / December 2016

	Wednesday 28	Thursday 29	Friday 30
6:30-		Airport pick up Reception open	
8:00-		Scrutineering Briefing / Volunteer Broom Sweeping for course safety	8:30 Facility opens and reception starts
9:00-		Briefing / Driver and team lead	9:00-13:30 Deliberation Commendation and Close celemony Lecture session > Mechanical engineering and design > Aero dynamics- CFD > Carbon layup procedure > Driver interface and telemetry system «Lecturer» • Atsuya Ikegami Chief engineer of Tokai solar car team and 5 engineers
10:00-	Airport pick up	Free run (45min)	
11:00-		Briefing / Team lead	
12:00-	Reception open Scrutineering	12:00 All cars are ready on grids celemonial speach by the sponsors Welcome speach bay mayer. 12:30 Battery provided at HQ 12:50 Grid in completed / Last check > Cars unable to set on grid shall be instructed to start from pit after all cars depart.	
13:00-	Scrutineering All participants will do Broom Sweeping for the course safety. Briefing / Driver and team lead Briefing / Volunteer	13:00 Heat 1 strat 14:30 Heat 1 checker 15:15 All cars are ready on grids for heat2 15:30 Heat 2 start	
14:00-	Practice Free run (45min)		
15:00-	Briefing / Team lead		15:00 After party with BBQ
16:00-			
17:00-	Course check / confirm safety	17:00 Heat 2 checker	
18:00-	Day close	Result announced teamporally	
19:00		Day close	

Volunteer : All teams shall provide their 2 or more crew as safety assitants standing every 30meters around the course during the race and practice in order to keep saftey in case trouble and avoid critical accidents.

Regulation Page1 / Energy Challenge Okinawa 2016

Name of the event	Energy Challenge Okinawa 2016	<h3>Race and Car</h3> <ul style="list-style-type: none"> + Race in 120min and ends 20min after the checker flag. + The race will be held in 2 heats system. 90min for each heat. + Team can put all 4 batteries at once throughout the 2 heats or put 2 for each heat1 and 2 seperately. Organizer must hold 2 batteries for 2nd heat until heat1 finishes in need of equality. Laps after 180min are not counted as its record for cars passing cotorol line 20min after the checker flag. + Course 1500m + Maximum car size Length 3.5m / Width 1.3m / Hight 1.6m + Braking system 1 system at least on any wheel to eligible to suspend the car with a driver on the 8% slope in every direction. + Motor No limit + Batteries 2 4pcs of Furukawa FTX4L-BS / 4Ah nominal provided at event head quater 60 30min right before the race start. No Precharge is permitted. Batteries provided by the event organizer are to be handed back after use of the reace so that participants should remove the batteries after inspection at the goal asap. + Car number Participants must put the number, which will be instructed by the organizer by November 30th. Participants can request car number althugh organizer has right to enplace the number. + Event sticker Participants must provide a space on the car surface to put the event sticker, Width 297mm x Hight 210mm + Car safety The car must equip a rear viewing device such as mirror or back viewing camera. Claxon, chain and sprocket cover or isolated from driver's room. + High Voltage Warning sign must be shown if exceeds 30V. + No cars will be allowed to run without passing scrutineering. + Only electric motor is allowed to run the car. No pedals or human power pushing. + Using super capacitors is allowed only when the driver is able to show its level of precharge bellow 10% of full capacity at the starting grid in 30 seconds when the inspector requests it. + Another set of batteries for practice free run is also provided at enent Head Quater. The type of these batteries is FPX 1288 http://www.furukawadenchi.co.jp/research/tech/pdf/fbtn70/fbtn70_21.pdf Participants are supposed to be ready with proper connectors to use these batteries in need of free run. + The Batteries provided by the organizer for the race must only be used to empower the motor to run the car. Other types of battery cells may only be permitted when the inspector can easily access and check those cells are only for other devices such as computers and sensors.
Competition format	WEM all Japan Gran Prix Final / Round4	
Official web site	http://energy-challenge-okinawa.science	
Official email address	wemgp@energy-challenge-okinawa.science	
Registration for entry	https://goo.gl/QS6PV0	
Event venue / Google map Link	Churasun Beach, Tomigusuku, Okinawa https://goo.gl/maps/iH9zEwsYRqM2	
Requirement to become Participants	Team lead : 20 years or older Driver : 14years or older >Drivers under 20y MUST show parental agreement with signunature by the parent in the document.	
Official announcement	via official website, facebook and twitter No speaker system in the event venue.	
Mandatory requirement	Teams must provide 2 or more Safety volunteers standing every 30 meters around the course to keep safety and avoid critical accidents during the practice and the race.	
Right of likeness	Partipants must permit event organizer to use all and photograph and video of team members and supporters for any kinds of media and public relations.	

Regulation Page2 / Energy Challenge Okinawa 2016

<p>Driver</p> <ul style="list-style-type: none"> + Driver must weigh 55kg or heavier with the ballast. Participant must prepare the exact weight beforehand to meet the requirement. The ballast weight will be inspected at both scrutinning and starting grid. So that, the location of the ballast must be easily visible from outside of the vehicle. + Driver must wear helmet certified by DOT, Snell, JIS manufactured in 2008 or later, driving suits, gloves, shoes during the race and practice. + Accessibility Diver must be able to evacuate from the car within 30 seconds without assistance. + Legal radio communication devices are only allowed in the event. Participants using illegal devices are to be withdrawn. <p>Application to take part in the event</p> <ul style="list-style-type: none"> + Web application form will be open on 20th of September 2016. + Limit of race : 25 teams Due to the course partly using public road, we may need not to accept more teams when we confirm early 25 teams. <p>For the Further notice</p> <ul style="list-style-type: none"> + The event organizer has right to change or re-define the regulation. Official announcement takes place via official website or facebook and twitter any time until the event ends. So that, the participants must refer the website or LIKE the facebook page below to get notified directly to their accounts. <p>-Official facebook page https://www.facebook.com/WEMGP.Okinawa/</p> <p>-Official twitter https://twitter.com/eco_race</p>	Schedule	
	20th September - November 15th	Entry web application form submit
	By November 18th	Organizer responds the application is accepted or not. Although organizer will close the application web form when reaching the number of applicants exceeds its capacity and announce Team list accepted as participants even if it's quite early before this date.
	By November 30th	<p>Non Japanese teams must submit a scanned of the the air tickets of all members of the team to prove its schedule to Okinawa by this date.</p> <p>Entry fee payment by Japanese teams must take place by this date.</p> <p>Otherwise other teams on the waiting list will come up to replace your application.</p> <ul style="list-style-type: none"> -Universities and educational entities: ¥18,000- -Open class teams : ¥28,000- -Non Japanese teams : ¥0-
	By November 30th	Submit a team photo of member and their car / jpeg less than 500kb
	By December 15th	Submit a scanned file of the pledge document signed by the team lead and drivers. The parent of the driver age younger than 20 years MUST sign in stead of the driver.
	On December 28th	Insurance can be purchased at the reception. 500yen for every person. All team member must apply purchasing the insurance.
	On December 28th	Scrutineering, Practice
	On December 29th	Race, Commendation
	On December 30th	Lecture session, After party with BBQ

Categories

- + Youth Class
A group of mainly Students of University, College, Polytech or High school. The driver must be the student.
- + Junior Class
A group of mainly Junipor High school. The driver must be the student.
- + Wiper motor Class
Youth class and Junior class teams that use conventional Wiper motor of general consumers' cars.
- + SEM Class
- + Open Class

Awards

- + Top 3 teams of all categories will be awarded at the commendation ceremony.

Safety

- + Driver's radio communication must use hands' free micro phone and ear phone(s).
- + Yellow flag by official staff
Driver must be very cautious and ready to encounter dangerous situation.
- + Red Flag
Driver must stop as soon as nitifying this flag on any position on the course.
- + Brake lights operated both by manual action and regeneration of the motor are highly recommended.

Protest

- +Team lead is the only person who's allowed to protest about the judgement of the race result. However the protest must take place within 30min after the race result temporally is announced before the commendation ceremony.

Disqualification

- +Teams are disqualified when the official staff notice that,
 - The car is moving with the power other than the energy of the battery of the event without authorization by the official staff.
 - Anyone of the team members disregard the insruction by the official staff or event organizer.
 - Anyone of the team members behave intimidating, overbearing, violent, antisocial or ilegal action against official staff or other team members.
 - If the car gets under trouble, driver is only able to move the car on a dolly provided by team crew. Once the car gets in the team shed, team crew can access the car to fix the problem.

Liability and Risk

- +All Teams must consent
 - not to claim against the event organizer or other participants for damage or loss of the car or team members by any kinds of incident or accident in the event.
 - To waive a right for pursuing liability of the event organizer nor other teams.
 - That any kinds of damage or loss of their team members or the car can only be covered by indemnification of the insurance no matter how it's caused intentionally or accidentally by anyone in the event.
 - not to compasate other teams or the event organizer including volunteers for any kind of loss or damage even if it is caused intentionally or accidentally by anyone in the event.

Power supply + Air compressor

- +All Teams can use their appliances with electric generator (AC100V MAX30A) and 2 air compressors of the event HQ during the event, that may be for the short duration, (30 min maximum) only when other teams come and ask for shifting.

Race winner

- + The race will be held in 2 heats system. 90min for each heat.
- + The race winner will be determined by the total number of laps made through 1st and 2nd heat.
- + If there are teams making the same total laps, the winner will be determined by the total time delay between the checker and the timing of passing control line at the last lap.
- + If there are teams making the same total time delay, then The winner of heat2 will be the all over winner of the race.

