



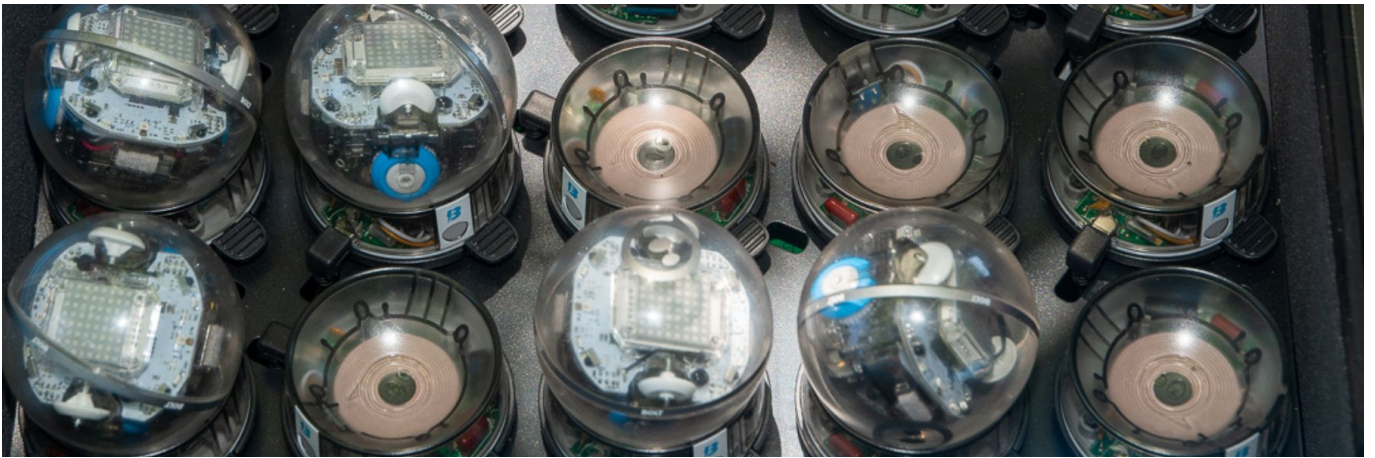
ENERGY BREAKTHROUGH

POWERED BY IMAGINATION

SCHOOL'S EVENT MANUAL

2023 EDITION - Version 1.0

22-26 NOV 2023 | MARYBOROUGH, VICTORIA



Program Partners



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October 2023

Dear Team Manager,

Welcome to the Energy Breakthrough Event Manual 2023

This Event Manual provides you with all the key details and links to the information you need for this year's event. The successful running of the event depends on you reading all of the relevant information and passing the relevant details on to all of your team members, other Team Managers at your school, parents and support staff.

Please assist us by forwarding this Event Manual on to your school community.

Key Program Changes for 2023:

- Moved the **HPV Primary Trial** to Track 1 and changed the schedule of activities to **Wednesday to Friday**;
- Moved the **Junkyard Challenge** to the Thursday program;
- Formally added a **Robotics Demonstration Challenge** to the Friday program;
- Offering **Video Display & Presentations** for all Pushcarts and HPV Secondary and Energy Efficient Vehicle teams; and
- Made changes to the **TRYathlon schedule**.

Please note there will be NO VEHICLE ACCESS to the camping areas inside Track 1, including Jubilee Oval and the Tennis Bay campgrounds, during the HPV Primary Practice and Trial sessions. Camping equipment can be walked in via the overpasses during these times. Please refer to the event schedule for full details.

Track #1 Closed

- Closed Wednesday 5.30pm – 8.30pm
- Closed Thursday 8am – 5pm
- Closed Friday 5.30am – 12noon
- Closed Friday 6.30pm – 9.30pm
- Closed Saturday 12pm – Sunday 12pm

Reminder: Working With Children Check (WWCC) Requirements

A reminder that all Team Managers and all adults in supervising roles with students during the event are required to have a current Working With Children Check (WWCC) or current Victorian Institute of Teaching (VIT) registration. We do not need to record evidence of all adults WWCC status, however, the onus is on you as a Team Manager to ensure your team and any support crew members are compliant.

If you have any questions about this year's event, please feel free to contact our team via enquiries@eb.org.au or the contacts listed on our website 'Contact' page: <https://www.eb.org.au/contact/>

Thank you for your dedication and participation – and we really are looking forward to seeing you at Maryborough.

Nigel Preston
Education Team Leader
Energy Breakthrough

KEY CONTACTS

During the event, please phone the Event Operations Centre (EOC): 1300 561 854

Please direct all written enquiries to enquiries@eb.org.au

EVENT MANUAL

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TEAM MANAGER CHECKLIST

Have you remembered to do the following?

Checklist	Yes
1. Registered this activity as a normal 'school excursion' with your school.	<input type="checkbox"/>
2. Ensure all adults that are Team Managers or in supervising roles with students during the event have current Working With Children Checks (WWCC) . See http://www.workingwithchildren.vic.gov.au/	<input type="checkbox"/>
3. Read and understood the Car and Bus Parking policy within this Event Manual	<input type="checkbox"/>
4. Read and understood the Medical and Emergency Evacuation Information within this Event Manual.	
5. Completed the Camping Checklist within this Event Manual.	<input type="checkbox"/>
6. Downloaded your category/ies relevant Schools Handbook for the relevant rules and regulations. See: https://www.eb.org.au/team-managers-hub/	<input type="checkbox"/>
7. Prepared a Participant Licence for each of your students: See: https://www.eb.org.au/team-managers-hub/	<input type="checkbox"/>
8. If in the TRYathlon, HPV Primary, HPV Secondary or EEV categories, have recruited and directed at least two Marshals to our training program. See https://www.eb.org.au/marshal-training/	<input type="checkbox"/>
9. Checked that your Team Manager mobile contact details are up to date so that Event Officials can contact you during the event via the Online Entry System: See https://my.eb.org.au/	<input type="checkbox"/>
10. Completed your ' Team Lists ', including details of riders and support crew via the Online Entry System: See https://my.eb.org.au/	<input type="checkbox"/>
11. Checked your scheduled times for when you are required to be present for scrutineering, Design & Construction, Display & Presentation, Marshalling and Trials. See https://schedule.eb.org.au/	<input type="checkbox"/>
12. Take a deep breath!	<input type="checkbox"/>

SAVE THESE KEY CONTACTS

During the event, please phone the Event Operations Centre (EOC): 1300 561 854

Please direct all written enquiries to enquiries@eb.org.au

Entry Lists, Schedules, Marshal Rosters and Results

Entry Lists

View the full 2023 Entry Lists now at: <https://www.eb.org.au/entries/2023-entry-lists/>

Schedules for Display & Presentation, Design & Construction and Scrutineering

All teams are required to complete Display & Presentation, Design & Construction as part of the Energy Breakthrough program. These schedules will be displayed digitally this year and can be shared with your team members, supporter crew and parents.

All School's Schedules will be available from 1st November onwards until the event at: <https://schedule.eb.org.au/>

Marshal Training and Marshal Rosters

This year we have set a goal of improving the training of corner marshals at the Energy Breakthrough. All HPV Primary, HPV Secondary, EEV and TRYathlon teams will be required to provide at least two marshals per team.

We now have online training materials and information that will assist volunteers to understand their roles and responsibilities as marshals – please ensure your nominated marshals have completed the online training and they have copies of this marshal information.

It is a requirement that ALL corner marshals have completed the online training prior to the event.

If volunteer marshals require further assistance or a detailed briefing, they can contact the office (03) 5461 0621. If you are experiencing difficulties with the marshal training online system, please email training@eb.org.au

What is involved?

Marshal Training Online is a three part process including:

1. [a series of instructional videos \(Watch on YouTube\):](https://www.youtube.com/watch?v=TN-WiyQgcDI)
<https://www.youtube.com/watch?v=TN-WiyQgcDI>
2. [written Corner Marshal documentation \(PDF\)](https://www.eb.org.au/download/11206/) – linked:
<https://www.eb.org.au/download/11206/>
3. an online test (consisting of multiple-choice questions)

Complete the Online Marshal Training now at: <https://www.eb.org.au/marshal-training/>

All Marshal Schedules will be available from 1st November onwards until the event at: <https://schedule.eb.org.au/>
<https://schedule.eb.org.au/>

Results

View the 2023 Results via: <https://www.eb.org.au/liveresults/>

AT EVENT CHECK-IN & EB ADMIN HUB

The EB Admin Hub will be located at the Princes Park Grandstand (near Park Road).

The EB Admin Hub will be the main point of contact with officials throughout the event.

Upon arrival in Maryborough, Team Managers should report to the EB Admin Hub for Check-in, please check opening times in the schedule.

Check-in will involve:

- Welcome and update on the event,
- Confirmation of team details: team member names, support crew, team names, etc.
- Allocation of Team Manager Identification,
- Issuing of team numbers and transponders (if applicable),
- Confirmation of Marshal times and marshal names,
- Confirmation of Display & Presentation, Design & Construction and Scrutineering times, and
- Emergency Procedures Briefing.

The Team Manager and all members of the team will then report to the marquee near the EB Admin Hub for registration of individual team members.

Wristbands and Identification

- Following check-in, all team managers, team members, students and support crew who are camping on site will be provided with wrist bands for identification. These wristbands are to be worn at all times and assists us in managing the camping grounds.
- All team members must be confirmed at registration to receive a non-removable wrist band for their specific category.
- Wristbands must be collected, with your team members, after check-in from the marquee in front of the EB Admin Hub.

MEDICAL ADVICE

The Medical and Emergency Services will be located on-site throughout the Energy Breakthrough with a Trackside Medical Centre in operation again this year during key periods of the event.

Ambulance Victoria will be on site during key on track competition periods.

Trained **first aid staff** from Advanced First Aid provider **ColMed** will be on-site during all programmed hours of the event.

The Trackside Medical Centre will be located near the Track 1. In case of an injury, please proceed to a Trackside Medical Centre or seek assistance from an event official.

General First Aid Hours of Operation

DAY	HOURS
TUESDAY	N/A
WEDNESDAY	9:00am – 9:00pm
THURSDAY	9:00am – 9:00pm
FRIDAY	6:00am – 9:30pm
SATURDAY	9:00am – 12:00 Midnight
SUNDAY	12:00 Midnight – 2:00pm

You can call the Event Operations Centre (EOC) during the times of the event on:
[1300 561 854](tel:1300561854)

Outside of the times above

Outside of the times above, please proceed to the Maryborough & District Health Service (MDHS), 75-87 Clarendon Street, Maryborough. If a student is attending MDHS during the event period, Team Managers are expected to have relevant medical information readily available with them.

On Track Medical First Responders

An on-track medical first response team will be in operation to respond to all medical incidents which occur during ALL times of practice and competition.

In the case of an emergency, please call 000.

EMERGENCY PROCEDURES

Team Managers must brief all members of their team, support crew and others travelling with them.

Emergency Guide

The health and safety of everyone involved in the Energy Breakthrough is of paramount importance to the way we operate.

The Teacher in Charge is responsible for briefing all school participants of the Emergency Response Procedures, choosing an appropriate Assembly Area and informing all participants of their designated Assembly Area (see Site Plan with the designated Assembly Areas clearly marked). This is the area to which participants should move to following evacuation.

VICPOL will control evacuation, in liaison with the EB Director of Emergency services.

Evacuation Procedure

ALERT

Notify Security or Energy Breakthrough Official.

ACTION TONE

(One continuous high pitch signal from siren)

Move directly to the nearest designated assembly area as directed by Security, Official or Teacher in Charge.

Evacuate people NOT property.

EVACUATE

Evacuate the area following instructions from Security or Officials.

ASSEMBLE

Assemble at designated assembly area and meet with Teacher in Charge.

GOOD PREPARATION CAN HELP – FIRE EXTINGUISHER

Organisers ask that all teams bring a Fire Extinguisher/s for their camp site. Organisers are advised that a 4.5 kg Dry Powder Extinguisher, 3A60BE would be suitable.

There will water tanks on-site for firefighting purposes. These should only be used for emergencies.

EVENT OPERATIONS CENTRE (EOC)

1300 561 854

EMERGENCY NUMBERS

Police: 000

Hospital: (03) 5461 0333

Fire: 000

Ambulance: 000

Police Station: (03) 5460 3300

Extreme Weather (Heat / Rain / Thunderstorm)

Event organisers reserve the right to implement a range of staged strategies to reduce the likelihood of incident and / or injury from a range of extreme weather scenarios.

These policies will apply to all activities on-site and the decision is the responsibility of the Clerk of Course and event organisers.

Total Fire Ban Policy:

In the event of a TOTAL FIRE BAN being declared the following rules will apply:

- The Trial/s will proceed as scheduled unless the organisers and Clerk of Course consider it unsafe to do so.
- Campers will NOT be able to use BBQ's or other open air stoves.
- This ban will apply to the full 24 hours of the declared day.
- Event caterers only will be able use BBQ's, if a permit is issued from the CFA, and they agree to meet all permit conditions.

Extreme Heat Weather Policy:

If the temperature exceeds 36' degrees Celsius, organisers reserve the right to implement a range of staged strategies to reduce the likelihood of heat stress.

These strategies include:

- compulsory breaks for riders / participants.
- suspension or re-scheduling of the Display & Presentation, Design & Construction & Scrutineering assessments.
- Suspension of the on-track Trial/s for a period of time.
- Modification or shortening of the on-track Trial/s.

Thunderstorm / Lightning Policy: '30-30 Rule'

The '30–30 Rule' is an Australian Standard, which states that when you see lightning, count the time until you hear the associated thunder, and if this time delay is 30 seconds or less, go immediately to a safe location.

30 minute wait: After hearing the last rumble of thunder, wait 30 minutes before leaving shelter. There is still danger after a storm is over, so stay in a safe area until you are sure the threat has passed.

Strategies in the event of a thunderstorm or lightning storm during the event include:

- suspension or re-scheduling of the Display & Presentation, Design & Construction & Scrutineering assessments.
- Suspension of the on-track Trial/s for a period of time.
- Modification or shortening of the on-track Trial/s.
- Evacuation to undercover areas on-site or off-site.

CAR AND BUS PARKING

Cars: \$20.00

Buses: Free

[Payment by EFTPOS only.](#)

The following Parking rules apply:

- Volunteer parking attendants will be on hand to assist and direct drivers upon arrival.
- Please follow the instructions of the parking officials and camping coordinators.
- Buses are exempt from the parking fee and will be required to park in designated bus parking areas only as guided by the volunteer parking attendants.
- All cars parking on the event site and the four areas adjoining the site will be charged to park.

- The four off-site parking areas are:
 - Burns Street.
 - Holyrood Street.
 - Park Road.
 - Lake Victoria Car Park Area.

- A limit of **one car per school** is allowed to park within the event site - Red Restricted Areas Car Park Pass Holder - until car parks are filled, and after this time they must park off-site. The Red Parking passes will be posted to schools prior to the event.
- **No vehicles will be permitted to drive or park on any grass areas, including camping areas. This is due to recent wet weather.** No parking is permitted on the ovals.
- Only buses will be permitted to park (where space is available) in the parking area at the southern end of the Track 2 Campground.
- Any **cool rooms** will need to be parked away from **any grassed areas**.
- The **Parking Pass Receipt** will issued to your car upon arrival (and after payment of the fee) must be filled in with contact details and placed on your windscreen. These receipts enable the vehicle to be parked on the site as directed.
- No vehicles are allowed to park in the **Maryborough Caravan Park**.

CAMPING INFORMATION

Upon arrival on site, schools are asked to follow directions of the Camping Co-ordinators and camp in areas as directed.

[All schools please note: there will be NO VEHICLE ACCESS to the camping areas inside Track 1, including Jubilee Oval and the Tennis Bay campgrounds, during the HPV Primary Practice and Trial sessions. Camping equipment can be walked in via the overpasses during these times.](#)

General Camping Locations:

- **HPV Secondary teams** will camp on Jubilee Oval and on the Tennis Bay campgrounds.
- **EEV teams** will camp on the Jubilee Oval and on the Tennis Bay campgrounds.
- **HPV Primary schools** will camp on Princes Park Oval.
- Try-athlon teams will camp on the Track 2 camp ground or Princes Park.
- Schools may camp at the Maryborough Caravan Park, however, this needs to be arranged and booked directly with the Caravan Park.
- Schools may camp offsite, however, EB event organisers still need to be notified for event coordination and emergency management purposes.

Camping guidelines

- Camp sites should be set up as soon as possible after arrival.
- The Energy Breakthrough is an alcohol-free and drug-free event.
- No car parking is allowed on the ovals.
- No Caravans, Camper Vans, Motor Homes, Horse Floats or any other modified wheeled sleeping vehicle will be allowed on the Energy Breakthrough Event Site. Please contact the Maryborough Harness Racing Club. Ph: 5464 2451.
- Schools MUST NOT use very long tent pegs or star pickets, such as those used for hire marquees, on any of the camping grounds. Pegs must be 30cm or smaller.
- All Hired Marquees must be removed off all camping sites by 5pm on the Sunday of the event. Non removal will attract a removal fee charged to the school.
- Campers must position cooking devices on outside perimeter fence of Princes Park Oval possible.
- Campers must ensure “fat drip trays”, and protective sheeting is positioned underneath cooking devices to prevent heat and hot fat damage to camping surfaces on all campgrounds.
- Ample showers, water and toilet facilities are located throughout the event site. Please refer to the site map for locations.

Please consider the needs of other campers by ensuring that:

- there is adequate supervision of team members within the camping area,
- your camping area is a quiet area at all times, and
- you leave your camp site clean when you depart.

Security

- Whilst the Energy Breakthrough organisers have engaged professional security services to be on site throughout the event, teams are reminded that they are responsible for the security of their own equipment, vehicles and personal belongings.
- Teams are strongly advised not to leave valuables in tents or around campsite.

CAMPING GUIDELINES

The health and safety of everyone involved in the Energy Breakthrough is of paramount importance to the way we operate. Please complete the checklist on the next page and present to the Administration Centre at Check-In.

As such the designated representative/Team Manager for each school camping onsite shall:

1. Ensure that electrical items brought onto site are for lighting only;
2. All electrical leads and electrical items brought onto site must be tested and tagged in accordance with AS3760: In-service safety inspection and testing of electrical equipment;

** NOTE: All leads MUST have a current test sticker affixed to the lead. A licensed electrician will be present onsite to perform in-service inspection of leads. Available from the Event Operations Centre (EOC) between 9am - 11am & 2pm - 4pm (Wed-Fri), the cost will be \$7.00 per lead.*

ELECTRICAL LEADS THAT DO NOT HAVE A CURRENT TEST STICKER MUST NOT BE USED ONSITE. A representative of the Energy Breakthrough shall request the designated representative/Team Manager to remove any untested lead from service immediately.

3. All electrical leads are to only be 10 amp heavy duty type;

**NOTE: Longer leads are preferred rather than several small leads joined together.*

4. Ensure that power boards are not used in series (i.e. one power board plugged into another);

**NOTE: As per item 2, all power boards must have a current test sticker affixed to the lead.*

5. **Ensure that all electrical leads are affixed to the fence line loosely with plastic zip ties.**

NOTE: **NO electrical leads are to be permitted in the guttering around the periphery of Princes Park and other ovals due to the potential of wastewater deposits from campers onsite;*

6. Ensure that any gas-powered BBQ's (including trailer-based hotplate BBQ's) brought onto site have an Australian Gas Association (AGA) certification sticker or an Energy Safe Victoria compliance plate attached and external condition inspections have been conducted;

7. Ensure that any **LPG Gas Cylinder** brought onto site is:

- i) In good condition;
- ii) Secured at all times (i.e. to a manufacturer's bracket on Energy Safe Victoria approved gas BBQ or in a plastic milk crate or similar);
- iii) Not to be used in a tent or canvas-type annex under **ANY** circumstance;

**NOTE: ALL gas appliances are to be stored away from the outside of a tent or annex.*

- iv) **Checked prior to use with a BBQ.** The gas bottle, regulator & hose assembly shall be checked for leaks by the designated representative/Team Manager, using a soapy water leak test.

The Soapy Water Test is performed as per the following:

Place soapy water in a spray bottle or dish. Turn on the gas bottle without turning on the BBQ. This process pressurises the system. Next, spray the entire valve, regulator and hose assembly with the soapy water. Alternatively, you can apply the soapy water with a paint brush or it can even be sponged on. Bubbles will form if there is a gas leak or you may smell the gas.

8. Ensure that **one Dry Powder Fire Extinguisher and Fire Blanket** with current test tag (i.e. metal tag 'punched' within the last six months) are brought onto site if a LPG Gas Cylinder is to be used for cooking purposes;

9. That any **fuel** that is brought onto site (i.e. for use with generator's) **MUST** be stored in a container that complies with AS/NZS 2906 (2001). Schools must also ensure that a minimum of one Dry Powder Fire Extinguisher is supplied for each fuel container.

10. [Consider bringing any reusable crockery and cutlery: there is an on-site wash bay in EB Central to wash these items.](#)

CAMPING CHECKLIST

Camping Checklist	Yes	No
1. All Electrical items have a current electrical test sticker affixed;	<input type="checkbox"/>	<input type="checkbox"/>
2. Gas powered BBQ's brought onto site have Australian Gas Association (AGA) certification sticker and/or Energy Safe Victoria compliance plate, regular external condition inspections have been conducted that is verifiable;	<input type="checkbox"/>	<input type="checkbox"/>
3. LPG Cylinders brought onto site have been inspected to ensure that all washers and O-rings are in sound condition;	<input type="checkbox"/>	<input type="checkbox"/>
4. All LPG Cylinders for use onsite have been secured (i.e. to a manufacturer's bracket on a gas BBQ or in a plastic milk crate or similar);	<input type="checkbox"/>	<input type="checkbox"/>
5. A bubble test has been conducted on all connections prior to the use of any gas powered BBQ to be used onsite;	<input type="checkbox"/>	<input type="checkbox"/>
6. Dry Powder Fire Extinguisher and Fire Blanket with current test tag (i.e. metal tag 'punched' within the last six months) are available for use;	<input type="checkbox"/>	<input type="checkbox"/>
7. Any fuel brought onto site is stored in a container that complies with AS/NZS 2906 (2001).	<input type="checkbox"/>	<input type="checkbox"/>

Acknowledgement

I hereby acknowledge that the information I have provided above is true and accurate as at the time of signing. I agree to comply with all reasonable directions provided by the Energy Breakthrough event organisers or volunteers in relation to all event health and safety instructions during the event.

PRINT NAME _____

SCHOOL NAME _____

Signed _____

DATE _____

[The above checklist can also be completed via the MyEB portal.](#)

PIT AREAS

There are three pit areas on Track 1 as marked on the event site map:

Pit 1A: #1 – #54

- Pit #1 is located near the start / finish line at Marshal Point #1 (Pit 1A Exit).
- Pit #54 near Jubilee Oval end at Marshal Point #11 (Pit 1A Entry).
- There is NO mains power provided to teams in this pit lane. Teams will be required to bring their own generators in this pit lane.

Pit 1B: #55 - #99

- Pit #55 is located near Marshal Point #5 (Pit 1B Entry).
- Pit #99 is located near Marshal Point #6 (Pit 1B Exit).
- Mains power is available to teams in this pit lane.

Pit 1C: #100 - #130

- Pit #100 is located near Marshal Point #9 (Pit 1C Entry).
- Pit #130 is located near Marshal Point #10 (Pit 1C Exit).
- Mains power is available to teams in this pit lane.
- Where possible, pit numbers are the same as the team number.
- All pit sites are numbered using paint on the asphalt.
- Each team in the HPV, EEV and Tryathlon endurance trials will be allocated a site in the pit area, except where schools with three entries in a category will be allocated two pits sites.
- Team numbers with a “300” prefix indicate where a school with three teams will use a total of two pit spaces. Eg. Team “310” shares pit space number 10 with team number 10.
- For identification purposes, teams in TRYathlon Primary category will have a “400” prefix. i.e. Team “410” will be in pit space number 10.
- For identification purposes, teams in TRYathlon Secondary category will have a “500” prefix. i.e. Team “510” will be in pit space number 10.
- All pit sites must be set-up as per the direction of Event Officials and changes may be required at the Officials discretion.
- All pit sites are approximately 3 m wide by 3 m deep, some are up to 6m deep.
- All teams must leave approximately 1 m clearance area in front of their pit site for rider changeovers and for other teams to have line of sight of the track and pit lane.
- There is NO existing shelter in the pit areas. Teams are encouraged to erect a 3m x 3m or 3m x 6m tent, and / or arrange to share a tent with another team.
- During the event there is restricted access to the pit area for motor vehicles.
- There is no power existing in the Pit 1A and limited power in Pit 1B. Teams will be required to arrange their own generators.
- During set-up and pack-down, teams will be able to drive into their pits during the specified times in the ‘Set-up and Pack-down Schedule’.

- Teams are requested to bring a tarpaulin (ideally 3m x 3m or 3m x 6m) to place over the ground around their pit area. This will reduce ground damage and help to keep their pit areas cleaner.
- To avoid clashes with other track activities, pit areas should NOT be set up too early in the event, please check the Bump In Times in the Event Schedule for details.
- The surface of your pit area may be hard, (i.e. concrete or asphalt) so securing tents may require water or sand filled weights rather than pegs.
- Teams are encouraged to erect a team or school banner in their designated pit area(s) including team numbers. A banner about 2 m x 1 m would be ideal.
- Closed shoes must be worn in pit lane.
- Maximum speed in the pit area is 10km/h.

PIT AREA – SET-UP / PACK-DOWN TIMES

- Motor vehicles will be permitted onto the track area in front of the pits to Set-up and Pack-down during the following times.
- All teams must follow the instructions of the Track Manager and EB Officials to ensure all vehicles are cleared from the track by the specified cut off times. It is recommended you unload your vehicle and move it to a designated car park and then set-up your pit area.

WEDNESDAY:

Anytime prior to 5:30pm:	Track 1 and Jubilee Oval open for vehicle access. HPV Primary and TRYathlon Primary teams: Pits Set-up ONLY.
5:30pm – 9:00pm:	Track 1 and Jubilee Oval closed for vehicle access.
9:00pm onwards:	Track 1 and Jubilee Oval open for vehicle access.

THURSDAY:

Anytime prior to 8:00am:	Track 1 and Jubilee Oval open for vehicle access. HPV Primary and TRYathlon Primary teams: Pits Set-up ONLY.
8:00am – 6:00pm:	Track 1 and Jubilee Oval closed for vehicle access.
Anytime after 6:00pm:	Track 1 and Jubilee Oval open for vehicle access.

FRIDAY:

5:30am – 1:00pm:	Track 1 and Jubilee Oval closed for vehicle access.
1:00pm – 2:00pm:	HPV Primary and TRYathlon Primary teams: Pits Pack-down ONLY.
2:00pm – 6:30pm:	HPV Secondary and TRYathlon Secondary teams: Pits Set-up ONLY.
6:30pm – 9:30pm:	Track 1 and Jubilee Oval closed for vehicle access.
Anytime after 9:30pm:	Track 1 and Jubilee Oval open for vehicle access.

SATURDAY:

Anytime prior to 11:00am:	Track 1 and Jubilee Oval open for vehicle access. HPV Secondary and TRYathlon Secondary teams: Pits Set-up ONLY.
Anytime after 11:00am:	Track 1 and Jubilee Oval closed for vehicle access.

SUNDAY:

Anytime prior to 1:00pm:	Track 1 and Jubilee Oval closed for vehicle access.
Anytime after to 1:00pm:	HPV Secondary and TRYathlon Secondary teams: Pits Pack-down. Track 1 and Jubilee Oval open for vehicle access.

PRIZES AND SPECIAL AWARDS

Energy Breakthrough Safety Award

Energy Breakthrough is committed to safety in everything we do.

This Award recognises a team that has met all the safety requirements in their design and construction processes and therefore presented a vehicle that protects their riders or other participants.

Energy Breakthrough Encouragement Award

This Award recognises a team that has overcome a great deal of adversity in the lead up to, and during the event in Maryborough.

Tricia Walsh Encouragement Award

A passionate and active member of Maryborough community, Tricia Walsh was a driving force in leading the Innovations in Technology category and a volunteer across various roles for over 15 years before she sadly passed away in 2012.

This is an Encouragement Award – as Tricia believed the event wasn't about winning – she preferred to encourage participation.

Judy Parker Award for the Best First Year School

Judy Parker was part of the Country Education Partnership when the Energy Breakthrough was conceived way back in 1990. She was passionate about engaging new and rural schools into the project.

This Award recognises the best performing first year school across all primary and secondary categories.

Bruce Reiffel Award for the Best Small Primary School

Bruce Reiffel was a local teacher at Maryborough Education Centre who dedicated himself to encouraging and supporting small schools enter the program. He was a tireless worker, always helping young people to build better vehicles, prepare themselves for the event and was always willing to help the smaller schools. He understood education and he understood the 'Breakthrough'. Bruce Reiffel sadly passed away in 2005.

This Award recognises the best performing HPV team from a primary school with an enrolment of less than 200 students.

Ian Rogerson Award for the Best Display & Presentation

Ian 'Rogo' Rogerson was a lifelong educator and the first Coordinator of the Display & Presentation section of the Event.

This Award recognises the schools with the highest Display & Presentation scores across all primary and secondary categories.

McCulloch's Engineering Prize for School-Based-Built Vehicles

The McCulloch's Engineering Prize aims to encourage and reward school-based design and construction. Use of commercially or professionally designed vehicles is not allowed in this Award which is open to students in Year 7 to Year 12 entered in the HPV and EEV categories.

This Award recognises a team who has built the majority of their vehicle at school and completed at least 500km during the 24 hour trial. Teams will be invited to self-nominate themselves for consideration for this Award during Design & Construction assessment.

EXPO, FOOD OUTLETS and FREE MOVIE SCREENINGS

EB CENTRAL

Thursday, Friday and Saturday

Activities and interactive displays provided by exhibitors for students, teachers and families. We know that Team Managers may not have time to visit yourself, but it's definitely worth encouraging your students crews, parents, friends and relatives of your team to visit! More details available here:

<http://eb.org.au/expo>

Food Outlets

Teams are required to cater for their own meals.

However, there are a number of local and commercial caterers located throughout the event site selling a range of food including sandwiches, pies, pasties, ice creams, hot dogs, sweets, sausages, bacon & eggs, coffee, hot and cold drinks.

Track side outlets are open all day Friday, all day and night Saturday, and Sunday until after lunch.

FReeZA Free Movie Screening

On the Thursday night the local FReeZA team will be screening a free PG rated movie from dusk (approx. 8:00 pm) in EB Central. All welcome, please bring your own chairs and rugs!

Maryborough Outdoor Swimming Pool - [Closed for 2023](#)

Unfortunately, due to repair works being required, the Maryborough Outdoor Swimming Pool will be closed for the duration of the 2023 Energy Breakthrough.

The toilets and showers at the Swimming Pool will still be available for use by event attendees.

EVENT SCHEDULE

Tuesday – 21 November 2023

Time	Activity	Who	Location
3:00pm - 6:00pm	Check-In	Primary School Teams	Administration Centre
3:00pm - Evening	Set-up Camp	Primary School Teams	Camping Areas

Wednesday – 22 November 2023

Time	Activity	Who	Location
9:00am - 12:00pm	Check-In	Primary School Teams	Administration Centre
9:00am - 5:00pm	Display and Presentation, Scrutineering, Design & Construction	HPV Primary & Try-athlon Primary teams	EB Central
9:00am - 12:00pm	Scrutineering, Design & Construction	Pushcarts	EB Central
1:00pm - 5:00pm	Obstacle Rally	Pushcarts	Track 2
6:00pm	Rider Briefing	HPV Primary & Try-athlon Primary teams	Stage, Track 1
6:30pm - 8:30pm	Practice Session	HPV Primary & Try-athlon Primary teams	Track 1

Thursday – 23 November 2023

Time	Activity	Who	Location
8:00am - 5:00pm	Track closed	All teams	Track 1
9:00am - 12:00pm	Check-In	Secondary School teams and Junkyard Challenge	Administration Centre
8:00 am - 9:00 am	Grid Formation	HPV Primary & Try-athlon Primary teams	Track 1
9:00am - 5:00pm	Endurance Trial (Part 1 of 2)	HPV Primary Primary teams	Track 1
9:00am - 5:00pm	Endurance Trial	Try-athlon Primary teams	Track 1
9:00am - 12:00pm	Endurance	Pushcarts	Track 2
9:45am - 12:00pm	Junkyard Challenge	Junkyard Challenge	EB Central
1:00pm - 4:00pm	Sprint	Pushcarts	Track 2
4:00pm - 6:00pm	Check-In	Secondary School teams and Junkyard Challenge	Administration Centre
5:00pm	Awards Ceremony	Pushcarts	Track 2
5:00pm	Track re-opened	All Teams	Track 1
From 6:30pm	Movie	HPV Primary & Try-athlon Primary teams	EB Central

Friday – 24 November 2023

Time	Activity	Who	Location
5:30am - 12:00pm	Track closed	All teams	Track 1
6:00am - 12:00pm	Trial (Part 2/2)	HPV Primary	Track 1
9:00am - 12noon	Check-In	HPV Secondary, EEV & Robotics	Administration Centre
9:00am - 5:00pm	Display and Presentation, Scrutineering, Design & Construction	HPV Secondary & EEV	EB Central
9:00am - 12:00pm	Display and Presentation, Scrutineering, Design & Construction	TRYathlon Secondary	EB Central
10:00am - 1:00pm	Robotics	Robotics	EB Central
1:00pm	Awards Ceremony	HPV Primary	EB Central
AFTERNOON	Teams Pack Up and Depart	Primary School Teams	
1:00pm - 2:30pm	Time Trial - Round #1	TRYathlon	Track 1 - Top Loop
1:00pm - 2:30pm	Obstacle Rally - Round #1	TRYathlon	Track 2
2:30pm - 3:00pm	Changeover	TRYathlon	Track 1 and 2
3:00pm - 5:00pm	Time Trial - Round #2	TRYathlon	Track 1 - Top Loop
3:00pm - 5:00pm	Obstacle Rally - Round #2	TRYathlon	Track 2
5:00pm	Team Captains Meeting	HPV Secondary, EEV & Try-athlon Secondary Team Captains	Design & Construction Marquee
6:00pm	Team Managers Meeting	HPV Secondary, EEV & Try-athlon Secondary Team Managers	Design & Construction Marquee
6:00pm	Awards Ceremony - TRYathlon Primary teams	TRYathlon Primary teams	EB Central
6:00pm – 9:30pm	Track closed	All teams	Track 1
7:30pm - 9:30pm	Practice Session	HPV Secondary, EEV & Try-athlon Secondary	Track 2

Saturday – 25 November 2023

Time	Activity	Who	Location
9:00am	EEV Battery Briefing	EEV Teams	EEV Charging Container
11:00am - 12:00pm	Grid Formation	HPV Secondary, EEV teams & TRYathlon Secondary teams	Track 1
12:00 Saturday - 12:00 Sunday	Trial - 24 Hours	HPV Secondary & EEV teams	Track 1
12:00 Saturday - 10:00pm	Trial - 8 Hours	TRYathlon Secondary teams	Track 1
9:00 pm	Awards Ceremony	TRYathlon Secondary teams	EB Central

Sunday – 26 November 2023

Start Time	Activity	Category	Location/s
12:00PM	HPV Secondary and EEV Trial Concludes	HPV Secondary & EEV	Track 1
1:00PM	HPV Secondary and EEV Presentations	HPV Secondary & EEV	EB Central
AFTERNOON	Teams Pack Up and Depart	HPV Secondary & EEV	

B-Alternative - Our Sustainability Partner

Energy Breakthrough has been working closely with B-Alternative for the 2022 and 2023 Maryborough events to reduce event waste, increase waste education and become a more sustainable event overall!

What is B-Alternative?

B-Alternative is a social enterprise which helps organisations and events eradicate waste by offering sustainable alternatives for the products they buy, the introduction of new systems and finding pathways to reuse and recycle waste.

How has this come about?

Made possible by the Circular Economy Councils grant funding from the Victorian Government through Sustainability Victoria, [B-Alternative](#) will be working closely with Energy Breakthrough to implement some new and exciting practices at the 2023 event, making EB more environmentally conscious than ever before.

What will it look like?

The friendly B-Alternative staff and volunteers will be onsite throughout the event helping to make sure Energy Breakthrough has the smallest environmental impact as possible.

Included in this Event Manual and available for download from our website are sustainability initiatives for the event that we ask schools, staff and parents to take the time to carefully absorb, support and become familiar with.

A B C D E F G H I J K L



ENERGY BREAKTHROUGH SITE - KEY

	First Aid		Toilets		Showers
	Assembly Area		Accessible Toilet		Parking Area
	Camping Area		Masseur		Road Closed
	Food & Refreshments		Wrist Banding Station		Gate (numbered)
	Drinking Water		EEV Recharge Station		Marshal Point (numbered)
	Crockery Wash Bay		Parts and Repairs		Start/Finish
					Pushcart Changeover Point
					Trackside
					Stage
					Display & Presentation,
					Junkyard Challenge
					Design & Construction
					Scrutineering
					Robotics / Pushcarts / Exhibitors
					Event Operations Centre
					Exhibitors (EB Central)
					Bridge
					One way traffic only
					Walking track only

Energy Breakthrough is a non-smoking event

BALLARAT/AVOCA →

Map not to scale.

FROM BENDIGO

CAMPER ENTRY VIA GATE 5

- Caravan Park
- Track 2 Camping (from G5 follow route to G1)
- Princes Park Oval (from G5 follow route to G1)

CAMPER ENTRY VIA GATE 4

- Jubilee Oval
- Tennis Bay Camping

GATE CLOSURES

- GATE 1**
 - Open all hours
- GATE 2**
 - Open all hours, no vehicles larger than 10 tonnes to enter this Gate
- GATE 3**
 - Closed to campers
- GATE 4**
 - Closed Wednesday 5.30pm – 8.30pm
 - Closed Thursday 8am – 5pm
 - Closed Friday 5.30am – 12noon
 - Closed Friday 6.30pm – 9.30pm
 - Closed Saturday 12pm – Sunday 12pm
- GATE 5**
 - Open all hours for Caravan Park entry and parking
 - Access to Track 2 and Princes Park closed Thursday 23 November (9am-12pm). Enter via Gate 1 during this time.

Off site Emergency Assembly Area

FROM CASTLEMAINE

FROM BALLARAT



ENERGY BREAKTHROUGH SUSTAINABILITY HANDBOOK

The Dja Dja Wurrung People have cared for Djandak (land) on which Energy Breakthrough (EB) is held for over 65,000 years. By taking a few simple steps, we can ensure we too, can look after this unceded land.

Working closely with social enterprise, B-Alternative, Central Goldfields Shire Council are moving towards creating a Zero Waste event, but we need everyone onsite to be a part of the movement!

B-Alternative is a social enterprise which helps organisations, schools and events eradicate waste by providing ethical resource recovery and waste management services and raising awareness through Earth-focused education and behaviour change.

You will meet the friendly B-Alternative staff and volunteers throughout the event, who will be helping to make sure EB has the smallest environmental impact as possible.

The following guide provides an overview of sustainability initiatives you'll notice at the event as well as a number of actions we need your help and involvement with to implement. We ask that your school take the time to carefully absorb this information, support the concepts, and familiarise yourself with the expectations when camping on the land.

COMMITMENTS FROM EVENT ORGANISERS



Acknowledgment of Country throughout the event.



Seeking out opportunities to listen to and learn from First Nations Peoples of the area.



Caring for Country by leaving the event site better than we found it, and not damaging any land whilst there.

Artwork: Rising Sun, Country Picnic, Country Campsite - Bidjara Artists Bigi Nagala.



Implementing a virtual environmental suggestion box at the event. Attendees can scan a QR code and add highlights, suggestions, questions, improvements or photos for future years.

2023 INITIATIVE: NO SINGLE USE PLASTICS ON SITE



No single use plastic water or soft drink bottles will be sold on site and are discouraged from being onsite. Please bring your own refillable bottle.



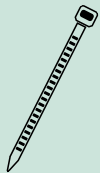
No single use coffee cups/lids will be sold on site and are discouraged from being onsite. Please bring your own coffee cup.



No single use plastic bags should be brought to site. Please bring reusable bags.



Vendors will not be selling single use plastic items onsite including bottles of soft drink. Canned drinks will be available.



Please use reusable cable ties in site set-up. The cable tie is a single use plastic. It is estimated that over 100 billion cable ties are produced every year.

COMMITMENTS FROM VENDORS

Vendors are working closely with B-Alternative and Event Organisers to make every effort to have a plastic-free event. Vendors are committed to carrying out the following actions:



No plastic bags will be used by vendors.



No single use plastic items will be provided by vendors.



Only canned drinks will be served - no plastic or tetra-pak.



Food and drink will be served in B-Alternative reusable crockery.



Vendors will take responsibility for their waste produced and separate out organics and recyclables.

WATER



There will be taps on site. Please bring your own refillable water bottle and large water containers to collect water.



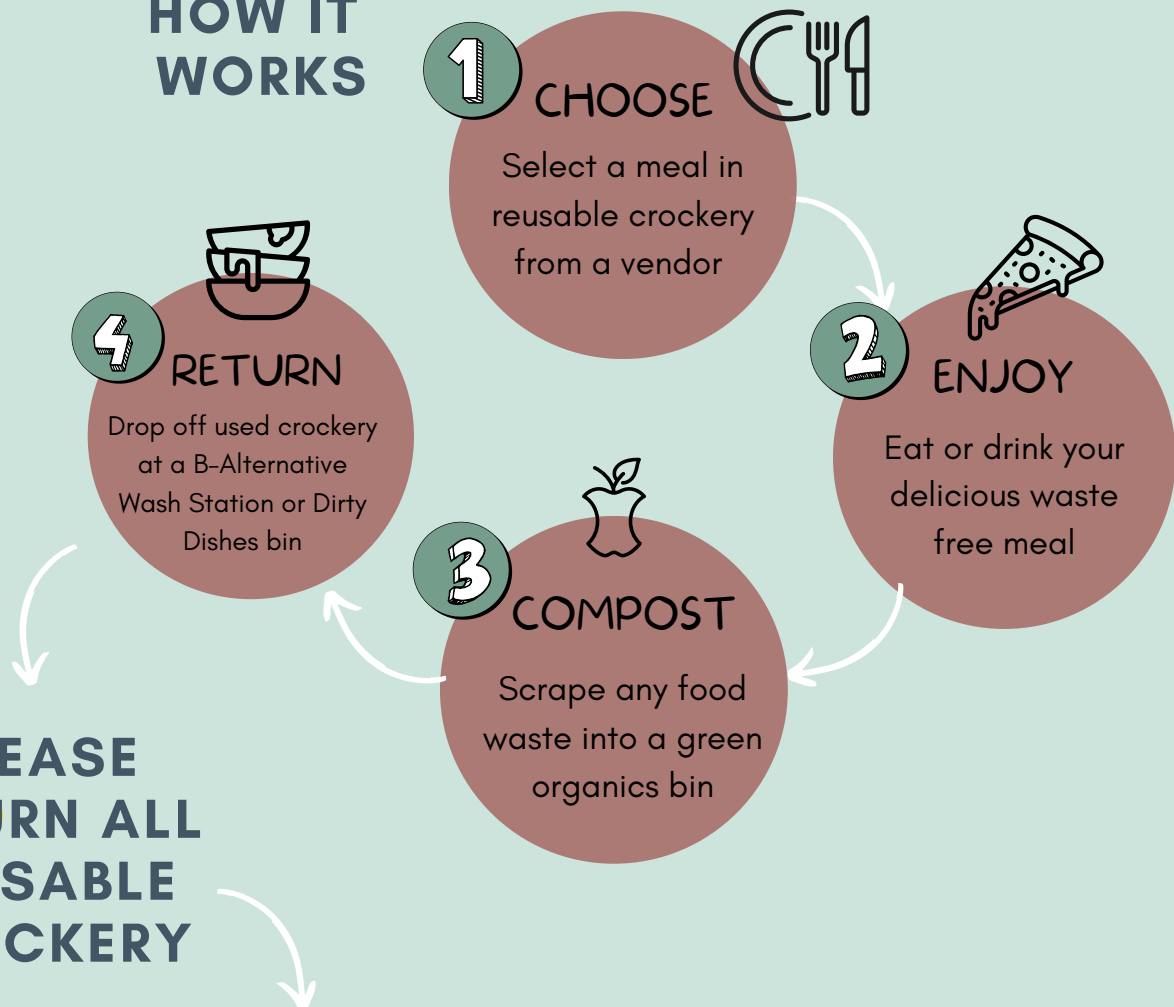
If you would like to purchase bulk water for your school, Wallaby Water canned water can be pre-purchased through B-Alternative, and can be picked up once you arrive onsite. Please email support@b-alternative.com if you would like to arrange this. Deadline for orders: 1st November.

REUSABLE CROCKERY SYSTEM



In an effort to have as little landfill waste as possible, B-Alternative will be implementing a reusable system which will see the food and beverage vendors have reusable crockery instead of single use packaging. This initiative helps us reduce our vendor related event waste by up to 95%.

HOW IT WORKS



PLEASE RETURN ALL REUSABLE CROCKERY

Please do not take any B-Alternative reusable crockery home with you. If you do accidentally take items home, they will need to be returned to B-Alternative for future use. Please contact support@b-alternative.com to arrange a return from your school.

RESOURCE RECOVERY SYSTEM

To reduce the amount of general waste on site and to ensure items are properly recycled or composted, B-Alternative will be setting up Resource Recovery Stations with multiple waste streams.

Resource Recovery Stations



All campers will be provided with organics, recycling and general waste bags on site. Separate your waste into the appropriate bags then drop them off at your nearest Resource Recovery Station.



E-WASTE

There will be an e-waste drop off point for any electronic waste like solar panels, fairy lights etc. Please take them to the drop off point or leave at a Resource Recovery Station. Please do not put electronic waste into the bin - they are valuable resources!



There will be a drop off for clean cardboard located in the campgrounds.



Carpet must be taken back to school, cleaned and dried to reuse for next year.



Camp Gear repairs - If your gear breaks, see the B-Alternative team to get it repaired or if irreparable dispose of it thoughtfully. Don't leave it on site at the end of the event.

CLEAN UP INITIATIVES

Campsite Education



B-Alternative will be walking around campsites to ensure tents and marquees are set up correctly, so they don't get damaged and become single-use items. They will also be checking on litter and general cleanliness of campsites and team areas.

Clean Campsite/Team Area Competition



Prizes will be awarded to the five cleanest campsites/team areas across the event as judged by our environmental team. Encourage your friends to clean up, recycle, compost, get your camp in order!

Spot Prizes



B-Alternative will also be awarding prizes to people on the spot who are seen to be caring for the environment...students and teachers!!

Clean up Song



Keep your ears open for this year's clean up song and when you hear it, clean up your campsite, pit space or wherever you are at that point.

Say hi to us!



Meet the friendly B-Alternative staff and volunteers throughout the event, who will be helping to make sure EB has the smallest environmental impact as possible.

STUDENT & TEACHER SUSTAINABILITY CHECKLIST

Use the below as a checklist to prepare for the event and ensure you're leaving a low environmental impact when you head home.

SUSTAINABLE ACTIONS	✓
Bring a labelled reusable drink bottle. No plastic water bottles will be available on site.	
Bring a reusable coffee cup. No single use coffee cups will be available on site.	
Bring reusable items like bags, straws, and cutlery. Reusable plates, bowls, and cups will be available for use on site through B-Alternative.	
Borrow quality camping gear from neighbours, family, and friends if possible. Purchase second-hand gear, where possible. Buy new as a last resort.	
If your gear breaks, get it repaired or dispose of it thoughtfully. Don't leave it on site at the end of the event.	
Be conscious of what you are bringing to site - waste free, no / low packaging. Bring snacks in reusable containers rather than single use packaging, avoid individually wrapped lollies etc	
Make better personal hygiene choices like plastic-free, waste-free and cruelty-free skincare, haircare, and menstrual care.	
Separate your waste into the appropriate streams then drop them off at your nearest resource recovery station. All campers will be provided with organics, recycling, and general waste bags.	
Water taps will be on site. If you prefer other water, bring along water dispensers to refill drink bottles for large groups e.g. 5L or 10L etc. Cardboard casks are generally available. Please avoid bringing single use 10L plastic water dispensers.	