

# SEASON THREE:



▶▶▶▶ ON THE IDEAL LINE  
TOWARDS SUSTAINABILITY

Formula E Season Three  
Sustainability Report

June 2018

**ABB FORMULA-E**

**FIA FORMULA-E CHAMPIONSHIP**

## At Formula E, sustainability is deeply rooted in our DNA

Our purpose is to reinvent racing and to make electric mobility a global reality – one race and one city a time.

The series was created to work towards a solution to improve air quality in city centres and fight climate change.

Formula E is the world's first fully-electric international single-seater racing series. Delivering entertainment across the globe, we reach a broad audience in an innovative way, inspiring generations to adopt sustainable mobility.


Through the ABB FIA Formula E Championship we aim to accelerate innovation in electric vehicle technology, work with cities to develop infrastructure and raise awareness on the benefits of electric vehicles and their ability to revolutionise everyday transportation.

Our championship is a competitive platform to test and develop road-relevant technologies, acting as a catalyst for sustainable mobility solutions and helping refine the design and functionality of electric vehicle components.

Our Values:

- »» Leadership
- »» Collaboration
- »» Credibility
- »» Innovation
- »» Passion
- »» Inclusivity
- »» Legacy

We regularly review our values to ensure they align with the governing principles of sustainable development: stewardship, integrity, transparency and inclusivity.



*“Formula E showcases the developing technologies of electric vehicles to the world and the challenges we face to counter climate change and global warming. I’ve seen it with my own eyes on an ice cap in the Arctic, and we want to provide a solution to bolster the case for electrification in cities across the globe. The cities are frontline in the battle against climate change - if we can find solutions in the cities, we can influence change everywhere.”*

**- Alejandro Agag, Founder & CEO of Formula E**

## Our actions are designed to fast-track our world towards sustainable mobility

**To help achieve our vision, we challenge conventional thinking and focus on breaking down barriers to the electric vehicle market by:**

- » **Pushing technology innovation:** improving battery capacity, enhancing driver behaviour (e.g. Qualcomm’s HALO wireless charging in the BMW i safety and medical cars), and making the transfer from race to road
- » **Raising awareness and changing perceptions about EVs:** bringing thrilling motorsport entertainment to the heart of iconic cities on the streets, while showing the obvious benefits of switching to electric vehicles
- » **Stimulating implementation of needed infrastructure:** hosting the FIA Smart Cities initiative to advance the development of more sustainable, safer and more connected cities, working toward a low-carbon economy with a clear statement toward sustainable mobility

*A recent study showed 85% of fans agree Formula E is "driving the future of the motorsport industry"*

# Formula E has integrated this sustainability mindset into every action we take, as we aspire to accelerate change towards an electric future through our innovative city street racing



## Energy

Our cars are fully powered by Formula E glycerine fuel generators



A revolutionary 0% emission and 100% renewable glycerine fuel



## Tyres

Our bespoke tyres are hybrids



Designed by Michelin to be suitable for all weather conditions, they last the entire race and are all recycled at the end of the day



## Tracks

We are the city street racing series



We race on temporary tracks in the hearts of some of the world's leading cities



## Spectators

We bring the race to our fans in city centres



We encourage fans to use public transport (and never provide parking spaces) plus encourage electric vehicle sharing



## Race Calendar

Our calendar has been designed with a cluster approach



We race region by region to optimise our freight in order to use more boat or road freight and less plane, thanks to our Official Logistics Partner DHL

# DEVELOPMENT OBJECTIVES

To ensure we keep on course, we have set-out three clear sustainable development objectives to guide our actions each season:

Monitoring and measuring our event operations performance, environmental and social impacts

1

Developing a strategic community engagement plan to engage with our stakeholders and leave a positive legacy

2

Engaging the supply chain to effectively meet our common sustainability goals

3



## In season three, we made clear progress against our sustainability objectives:

### Monitoring and measuring our event operations performance, environmental and social impacts

- »» **ISO 20121:** We power-boostered our journey to certify the entire championship to the highest level of the International Standard of sustainability in events by the end of our fourth season.
- »» **Life Cycle Assessment:** We conducted our third comprehensive study to calculate the championship carbon footprint, relying on sustainability experts from Quantis International.
- »» **Footprint offsetting:** We were the first ever championship to offset our total footprint for our inaugural race in New York in season three thanks to our partnership with Enel, making it the first ever zero-emission event in the Championship's history.

### Developing a strategic community engagement plan

- »» **Local charity partners:** We put a plan in place for community engagement at each event to raise awareness and connect with local community and charity groups and spread the sustainability message.
- »» **FIA Smart Cities Initiative:** We bring together key stakeholders to promote a positive agenda for safe, sustainable and connected mobility.
- »» **UNEP BreatheLife Campaign:** We joined forces with UNEP to improve inner-city air quality and increase uptake of EVs.
- »» **Foundation partners:** We reached global audiences with positive innovations for a better future with our international partner, Prince Albert of Monaco II Foundation and partnered with The Climate Group (announced during NYC Climate Week), officially becoming EV100 ambassadors.

### Engaging the supply chain to meet common sustainability goals

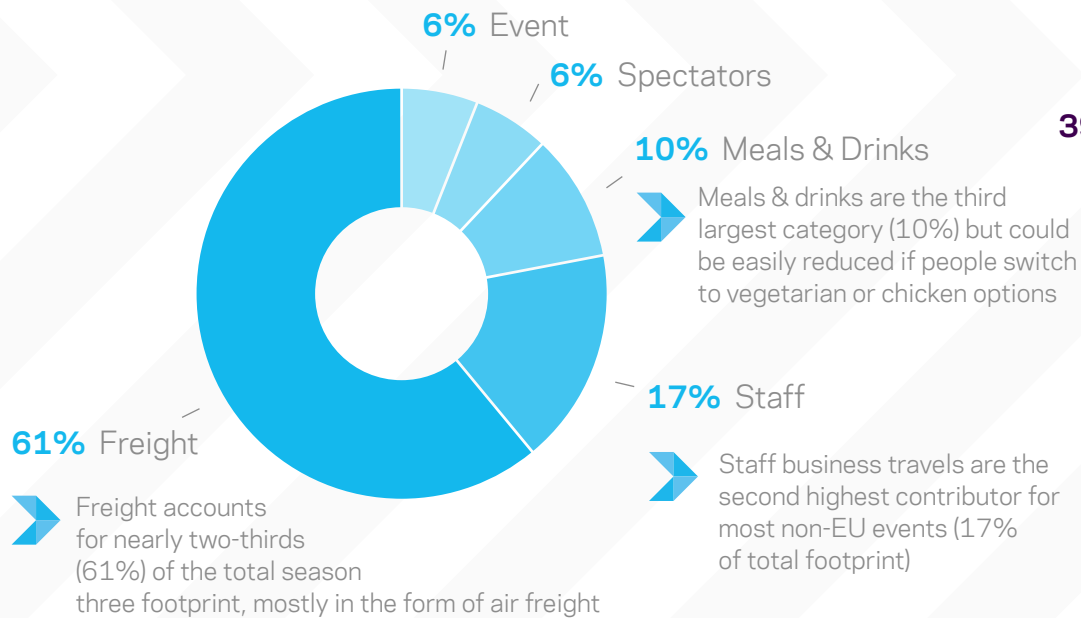
- »» **Cross industry collaboration on technology:** We have inspired partnerships between some of the leading tech companies in the world working to advance electric mobility solutions, such as increasing battery capacity.
- »» **Expanding the supply chain:** New teams entered Formula E in season three.
- »» **Roborace autonomous electric cars:** a competition of intelligence as we put driverless personalities to the ultimate test.
- »» **E-Village food vendors:** food in the E-Village includes locally sourced, seasonal, vegetarian, vegan, organic and fair trade options.

# MEASURING OUR IMPACT

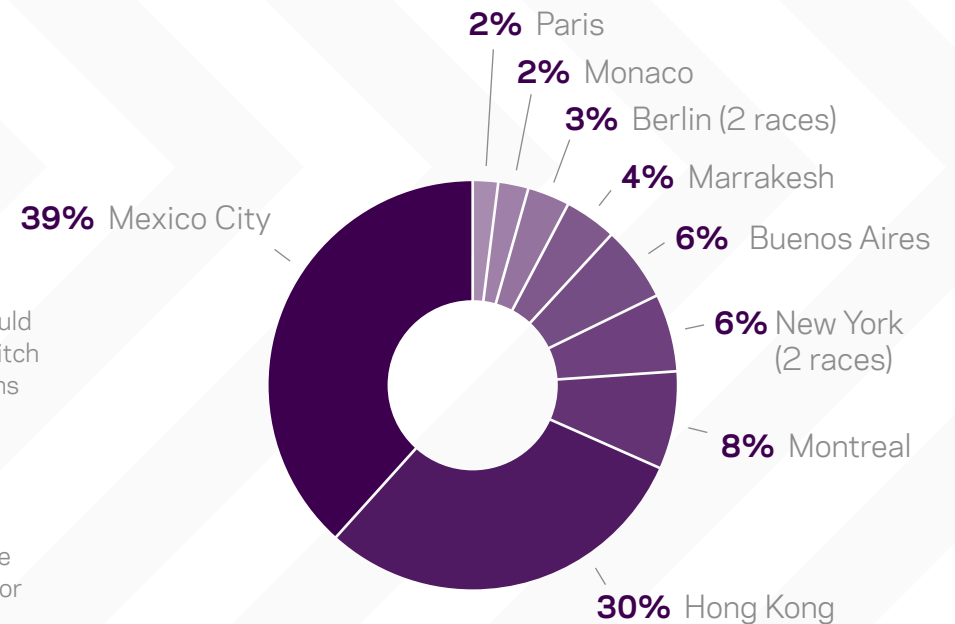
We continue to monitor and measure our impact to understand where we can make real improvements in our operations and planning

**Total season three Footprint: 13,500 tCO<sub>2</sub>-eq** ➔ The total season three footprint was 13,500 tCO<sub>2</sub>-eq, slightly higher than in season two due to the fact we had 2 additional races

## Carbon Footprint by Category



## Carbon Footprint by City



➔ Mexico and Hong Kong had the biggest footprints due to the air freight and staff travel required

# COMMUNITY ENGAGEMENT

Community engagement is a key pillar for Formula E and ensures our sustainability work truly connects with people

In season three we worked with the following organizations in each of these cities:

## Mexico City

Con Ganas de Vivir



Creating a day of experiences for people living with cancer in Mexico

## Paris

L'Association du Sport et Plus



Improving the daily lives of hospitalised children

## Berlin

Berliner Krebsgesellschaft



Improving the quality of life of those affected by cancer and increase their chance of healing

## New York

Earth Day Initiative



Count to 50 campaign encouraging people to switch to clean energy providers

## New York

Red Hook Initiative



Nurtures young people in Red Hook with support and skills to become co-creators of their lives, community and society

## New York

PortSide



PortSide hosted the Red Hook Initiative on the MARY A. WHALEN ship next to the Formula E race track to talk to kids about the WaterStories programmes

## Marrakesh and Monaco

Prince Albert II of Monaco Foundation



Hosted two charity gala dinners for the foundation, raising a total of €135,000, which is more than is needed to fulfil one project for a year

## Montreal

One Drop



Global NGO focused on water, sanitation and hygiene programming



# ENGAGING THE SUPPLY CHAIN

We are committed to clean energy and work with partners and suppliers to achieve our goal of 100% renewable energy

Our cars are powered by a zero emission and one hundred percent renewable fuel from specialised glycerine generators, and our headquarters is powered by 100% renewable energy.



In comparison to a standard production diesel engine, the Formula E glycerine generators reduce the amount of carbon by half a tonne, and half a kilogram of poisonous NOx emissions, in just one hour.

In season three, The Climate Group became an international foundation partner and Formula E became an ambassador of their EV100 programme and a partner of their RE100 programme.



RE100 is a global initiative by The Climate Group to support influential companies working towards 100% renewable energy targets.

**RE 100**

Our long term vision is to power our events with 100% renewable energy (beyond our cars).



Enel and Formula E are natural partners, as we both embrace the exciting opportunities in electric mobility, smart cities and the clean energy revolution. Just as Formula E further pushes the boundaries of technology race after race, we at Enel strive every day for a greater penetration of electricity in society and for its full decarbonisation, promoting a responsible attitude towards nature and the future of our planet. The partnership between Enel and Formula E reflects the desire of Enel to innovatively explore the electric mobility sector, in which the Group fully believes, emphasizing the dual component of innovation and sustainability.

Enel is helping to cut emissions associated with the staging and powering of Formula E events through its smart energy solutions. Starting from season two, we have conceived a fully digitized next-generation micro-grid for Formula E that will provide clean energy to the events, ensuring that the entire championship will become carbon neutral.

**enel**

*"The Climate Group is a proud partner of Formula E. Our organisations share a drive to accelerate climate action. Together we're focused on making electric transport powered by renewable energy into the global norm. We're delighted that Formula E is a member of The Climate Group's RE100 campaign, and joins over 130 other global businesses in making the commitment to 100% renewable electricity across its operations. In the future, we'll be working closely with Formula E to encourage businesses and governments to make bold commitments to scaling up electric vehicle use as part of our EV100 initiative. With companies owning over half of all registered vehicles on the road, it is crucial that they lead the shift to electric vehicles. Through their investment, and influence on millions of staff and customers worldwide, they can significantly enhance mass demand for electric vehicles and thereby rapidly bend the transport emissions curve."*

**- Helen Clarkson, CEO of The Climate Group**



# ISO CERTIFICATION

To ensure continual improvement of our ISO20121 certification, we aim to have third party certification for the entire championship by the end of season four

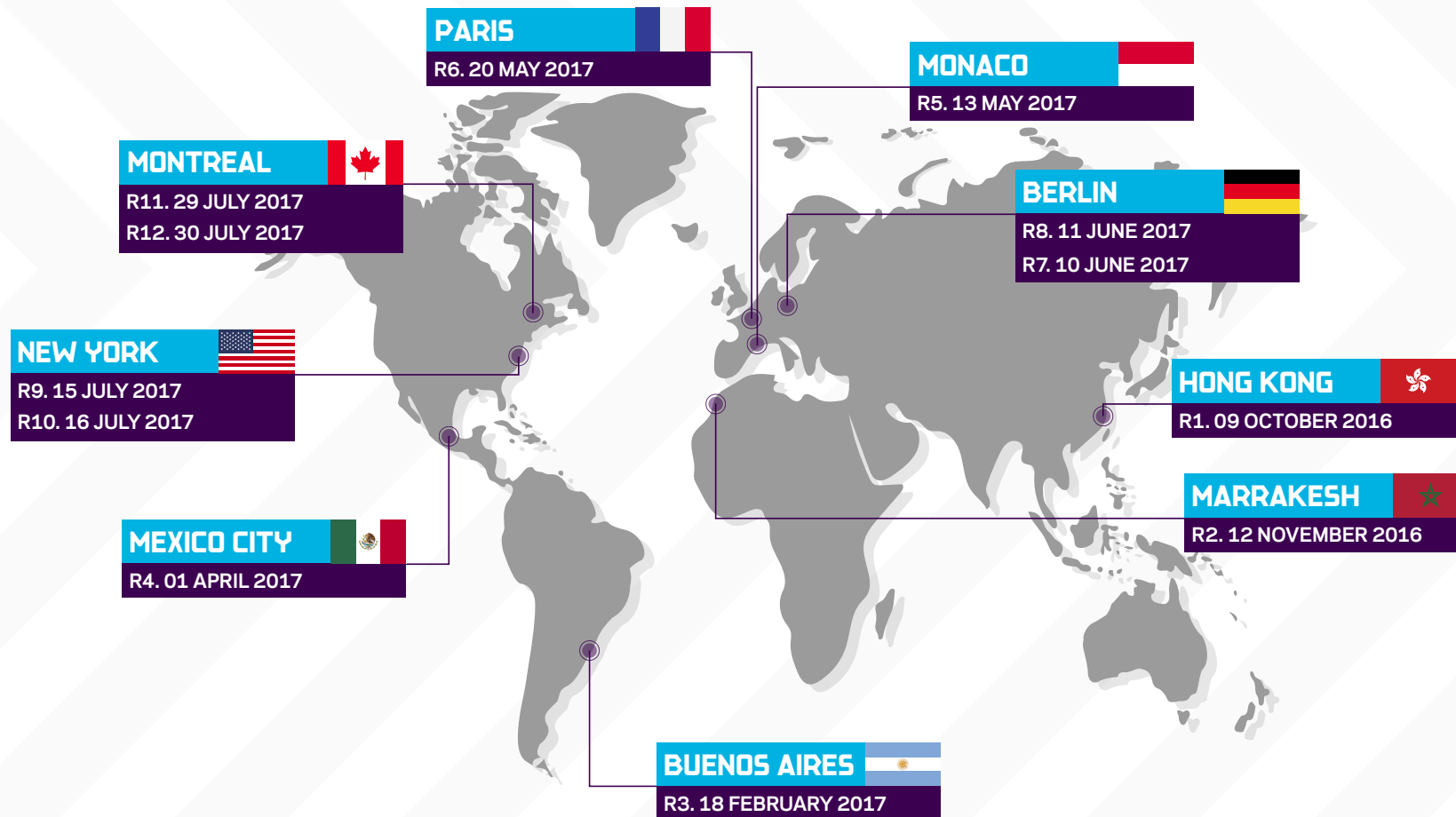
ISO20121 offers guidance and best practise parameters to help us control our event's social, economic and environmental impacts. In addition, the monitoring and measuring required will provide us with opportunities to reduce the use of resources and cut costs.

The plan is to grow the scope, improving all three aspects of sustainability in the planning, event, and post-event stages of our races by certifying the entire ABB FIA Formula E championship with ISO 20121. This ensures the highest level of legitimacy and recognition, which will increase our sustainable credentials and enhance our business competitiveness.

We aim to become the first ever motorsport championship to achieve this prestigious certification, and we will be setting a standard in the sports and events industry of the highest level of sustainable practise.

Sustainable Events Limited is guiding us on this journey toward full ISO 20121 certification.

# SEASON THREE RACE MAP AND CALENDAR



# RECOGNITION

Awards received for our efforts in sustainability are testimony to the Formula E spirit and dedication to a future of sustainable mobility



## 2016 Business Green Leaders Awards

Sustainability Team of the Year  
& Company of the Year



## 2016 Tve Global Sustainability Film Awards

Finalist - Net Positive Leadership



## 2016 BusinessGreen Technology Awards

Finalist - Transport Technology of the Year



## 2016 British Renewable Energy Awards

Low Carbon Transport Award



[Click here to watch](#)

## Greenpeace Recognition Video

Depicting Formula E's visionary role for the automotive industry



## ISO20121 Certification

For the London E-Prix in season two



## FIA Achievement of Excellence

For Environmental Management System

*"Formula E is a way to change the world, to help it progress, by advancing differently. Indeed, more than ever before we need to advance differently. At a time when our planet is in danger, when global warming is disrupting its natural balance, and above all, the use of fossil fuels is directly responsible for this situation, we have dire need of a radical change. I believe sincerely, profoundly, that Formula E can be one of the vectors of this change."*

**- Declared by HSH Prince Albert II of Monaco during the Monaco E-Prix Gala Dinner**

Our partners, suppliers and teams are key to help us achieve our bold sustainability goals and reach our vision for a future run by sustainable mobility

Partners



Suppliers



Teams



Above partners, suppliers and teams are correct as of season three

*"The future of transport and mobility is electric, autonomous and connected. This is a revolution. Formula E is going to shape the way we drive our cars in the future."*

**- Alejandro Agag, Founder & CEO of Formula E**

The ABB FIA Formula E Championship would like to thank all who have contributed to minimising carbon emissions and inner-city air pollution, as we continue the charge towards an electric revolution.

