FACT SHEET XXL Round 7/8 FORMULA E BERLIN

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Editorial



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The Berlin ePrix is the great highlight for Schaeffler. It's the first event in the 2016/17 Formula E season to feature two races, one each on Saturday and Sunday at the Tempelhof airport, giving our Team ABT Schaeffler Audi Sport two chances for victory. In addition, the seventh of nine For-

mula E race weekends marks our home round. Some 400 Schaeffler employees will get to enjoy a live on-site experience of gripping motorsport in an electrifying setting.

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Down to the wire



Formula E offers a number of distinct motor racing specialties. The most obvious feature is that, unlike conventional internal combustion engines (as in the DTM) or hybrid drives (as in the WEC), Formula E race cars are one hundred percent electrically-powered. The development of the electric motor as well as the transmission and subsequent software is unrestricted. Schaeffler and the team joined forces to design the entire powertrain, and this successful combination laid the foundation for clinching the vice-championship in the second season. The energy for all teams comes from identical batteries weighing approx. 320 kilograms and positioned in the rear of the car.

A second special feature is that Formula E races are not contested on conventional, per-

manent race tracks, but rather on temporary courses set up right in the heart of major cities. So, rather than the fans having to travel to events, racing is brought straight to the fans. Competing in these unusual locations is possible thanks to the low noise level of the Formula E racing cars and their zero emissions. Even the electricity that is used to charge the batteries is generated at the track using a glycerine-powered Aquafuel generator.

Electrifying around the world

In the motor racing scene, the venues are unique and exotic: Hong Kong, Marrakesh, Buenos Aires, Paris, Berlin and New York are just some of the metropolises where the ePrix are held, with backdrops such as Les Invalides, the skyline of Kowloon or the Statue of Liberty.

The grid line-up is studded with interesting names, including Nelson Piquet Jr, Nico Prost, Nick Heidfeld and, of course, the defending champion Sébastien Buemi.

As the sole German team, ABT Schaeffler Audi Sport again tackles the series with its regular drivers Daniel Abt and reigning vice-champion Lucas di Grassi. The other nine squads include outright factory teams such as Renault, Jaguar and DS Virgin as well as other top international teams from China, the USA and India.

The Formula E format is clear and concise: The practice, qualifying and race are all run on a single day. The race itself takes about 50 minutes – with pilots coming into the pits at around halftime to switch cars.

9&10

Around the **qlobe**

On its ten-month world tour covering four continents, the Formula E race calendar features one highlight after the other. Four new metropolises - Hong Kong, Marrakesh, Montreal and New York – are playing host to a round of the fully electric racing series for the first time



Pole premiere **Buenos Aires Argentina**

February 18, 2017 First pole position for Lucas di Grassi lag, he celebrates a third place. Daniel



Sensational win **Mexico City Mexico**

April 1, 2017

lap – and finishing as the winner

The string of success continues

teammate, Daniel Abt, in position seven, completes the good result for ABT Schaeffler Audi Sport in the principality.



October 9, 2016



lovember 12, 2016



Lean diet **Paris France**

May 20, 2017

Home race Berlin Germany

June 10/11, 2017

Last season, in the German capital, a one-two podium was achieved for the first time. An encore will be welcome – with two opportunities available. The German fans will be seeing a race on both Saturday and Sunday.



Grand Finale Montreal Canada

July 29/30, 2017

Just like in New York, Montreal hosts a double-header at the final weekend of the 2016/2017 season. The multicultural metropolis on the St. Lawrence River, where French is the official language, is crazy about motor racing.



Driver Ranking

1	Sébastien Buemi (CH)	Renault e.Dams	13
2	Lucas di Grassi (BR)	ABT Schaeffler Audi Sport	8
3	Nicolas Prost (F)	Renault e.Dams	58
4	Nick Heidfeld (D)	Mahindra Racing	47
5	Jean-Éric Vergne (F)	Techeetah	40
6	Felix Rosenqvist (S)	Mahindra Racing	4(
7	Sam Bird (GB)	DS Virgin Racing	3!
8	Nelson Piquet Jr. (BR)	NextEV NIO	33
9	José María López (RA)	DS Virgin Racing	28
10	Daniel Abt (D)	ABT Schaeffler Audi Sport	2
11	Robin Frijns (NL)	MS Amlin Andretti	16
12	Mitch Evans (NZ)	Panasonic Jaguar Racing	1
13	Oliver Turvey (GB)	NextEV NIO	1
14	Maro Engel (D)	Venturi	1
15	António Félix da Costa (P)	MS Amlin Andretti	10
16	Jérôme D'Ambrosio (B)	Faraday Future Dragon Racing	10
17	Loïc Duval (F)	Faraday Future Dragon Racing	
18	Esteban Gutiérrez (MEX)	Techeetah	
19	Adam Carroll (GB)	Panasonic Jaguar Racing	
20	Tom Dillmann (F)	Venturi	
21	Stéphane Sarrazin (F)	Venturi	

Team Ranking

New York USA

This is the first time a FIA automobile race is held in the middle of New York ... with not only one but two races - on Saturday

and again on Sunday - in the legendary port district of Brooklyn.

Р	ream	PIS
1	Renault e.Dams	190
2	ABT Schaeffler Audi Sport	115
3	Mahindra Racing	87
4	DS Virgin Racing	63
5	NextEV NIO	48
6	Techeetah	45
7	MS Amlin Andretti	26
8	Panasonic Jaguar Racing	19
9	Faraday Future Dragon Racing	19
10	Venturi	18

CES: Schaeffler and Formula E in Vegas Las Vegas USA January 7, 2017 A successful premiere of a virtual Formula E race in Las Vegas that received worldwide attention: In the simulator race supported by Schaeffler, the Formula E campaigners were pitted against the ten best fans. Daniel Abi finished in ninth place.

Germans are said to be tidy and thorough: a stereotype which, at least, is confirmed when looking at urban mobility in Berlin, the country's capital that has a reputation of being a very lively place

With a population of about 3.5 million, Berlin "only" ranks in position 58 of the world's cities with at least one million inhabitants – but within Germany, the federal capital is the country's major metropolis, followed in second place by the port city of Hamburg with a population of about 1.8 million. In terms of mobility, Berlin is at the republic's forefront in several respects as well.

1.7 million registered vehicles travel on Berlin's public road network covering a total of

5,400 kilometers, with 77 kilometers of federal "autobahns" alone being routed through the city: a heavy burden on humans and nature. The city has taken a constructive approach particularly to addressing the latter issue: by imposing speed limits. In Berlin, in terms of direction of travel, there are 164 kilometers of main traffic arteries where speed at night is limited to 30 km/h for noise protection. On an additional 372 kilometers, the maximum permissible speed is 30 km/h during the day for safety reasons. This means that 17 percent of

the main streets and roads have speed limits of 30 km/h at least some of the time. Transportation Senator Regine Günther would like to introduce additional 30 km/h zones in order to further reduce harmful emissions.

In spite of the large number of passenger cars in the city, Berliners cover four in ten distances on foot or on bicycles. Accordingly, non-motorized ways of getting around town are highly important. Since 2001, 340 new pedestrian crossing installations such as "zebra-marked" crosswalks have been created in Berlin. Cyclists by now are able to use more than 1,000 kilometers of bikeways. These actions have produced a measureable effect, as residents are now running more of their errands on foot than by car in downtown Berlin.

Those preferring to be "chauffeured" in Berlin use public transportation. Verkehrsverbund Berlin-Brandenburg (VBB) with some 30,000 square kilometers is one of Europe's largest transportation associations in terms of area covered. Regional trains, commuter trains, the subway, streetcars and buses have more than 3,100 stops and a network length of some 1,900 kilometers – which roughly

equates to the distance between Berlin and Moscow.

Prompting transformation

New Mobility Berlin - this is the name of a promising initiative. The project analyzes and supports the rollout of e-mobility solutions in Berlin's neighborhoods in combination with new types of space utilization concepts and mobility offerings. The objective is to sustainably upgrade residential areas by means of innovative mobility concepts. Residents are to be motivated to deregister their cars and to instead use a mix of car sharing, cargo bicycles, pedelecs and similar types of transportation. Berliners have already had opportunities to familiarize themselves with these alternatives during various weeks dedicated to the promotion of this campaign.

> Panoramic view The Television Tower on Alexanderplatz on the right, and the Berlin Cathedral on the river Spree in the background on the left



9

High-tech for the race track

18-inch wheels with Michelin control tires

(same tread as for production cars)

The ABT Schaeffler FE02 is a purebred racer packed with high-tech. While most of the components, including the battery and the entire aerokit, are identical for all contenders, Schaeffler and ABT have developed the entire powertrain

Hydraulic dual-circuit braking system,

adjustable brake force distribution

Steering wheel

Standardized steering wheel with paddles for shifting and recuperation, controls for various engine settings and a display for all key information

Battery

Developed by Williams Advanced Engineering, charging time: approx. 45 minutes

Aerodynamics

Adjustable front and rear wing

SCHAEFFLER Mobility for topolitist to topoli

SONAX HERIN

SuspensionOptimized

Optimized suspension with increased stiffness and improved kinematics

Powertrain

Electric motor ABT Schaeffler MGU 01+, three-speed transmission

Dimensions

Length 5,000 mm Width 1,800 mm Height 1,250 mm Weight min. 880 kg including driver

Power output

Practice and Qualifying 200 kW (270 hp) **Races** 170 kW (231 hp) plus FanBoost

Chassis

Specification carbon fiberaluminum chassis from Dallara



VideoThe powertrain of the ABT Schaeffler FE02



Top team performance ABT Schaeffler Audi Sport is in contention for victory

Wellequipped

The basic concept for the powertrain of the ABT Schaeffler FE02 remains identical to last year. For the 2016/2017 season, the engineers focused on improving many details

ABT Schaeffler Audi Sport heads off on the Formula E tour around the world with a powertrain that has been improved in many aspects. ABT Schaeffler MGU01+ - even the name makes it clear that the powertrain is based on the combination of the electric motor and transmission from the successful season two model: in ten races the two pilots Daniel Abt and Lucas di Grassi scored ten podium positions, three of which were victories.

Improved details

The engineers of the exclusive technology partner, Schaeffler, have focused on further improving the torque and drive efficiency. Moreover, the weight has been further reduced. The transmission features three gears and has also been further optimized in its efficiency and gearshift times.

"We feel well equipped for the challenges of the third season," says Prof. Peter Gutzmer, The Chief Technical Officer and Formula E project leader at Schaeffler. "In its first season, our powertrain played an important role in our many successes. So, it quickly became clear that we should not only continue to focus on our proven concept, but also to further develop all aspects of our compo-

> nents. I would like to thank all the engineers who have worked with complete commitment in parallel to our fight for the title, so that we stay competitive and are preferably winning in the future

test kilometers were covered by the team in as well."



Tech Talk



The uppermost, green curve shows the respective gear used.

The blue curve shows the steering angle. The greater the upward slope, the more the driver steers to the right, the greater the downward slope, the larger is the steering angle to the left.

This is what the lines mean

The most important curve: It plots the speed. The greater the upward slope, the faster the car is runnina.

This curve shows the electric motor's power output. When the curve peaks it reflects maximum output of 200 kW, while the valleys show that energy is being recuperated.

This curve plots brake pressure. When the car is running faster, the driver is able to make heavier use of the brake, as more downforce is being generated and the wheels will not lock as fast. When the driver brakes on entering a turn brake farea decreases.

The green curve shows the position of the "gas" pedal. On the largest part of the track, the driver runs flat-out. When the slope of the curve hits rock bottom the driver is coastina to save enerav.

This is where brake force distribution to the two brake circuits is depicted. Either the front or the rear one is subjected to a greater load, depending on the direction of the slope.

The curves displayed on the screen at first glance look like stock charts that sometimes rise briskly, rarely stagnate for long, but frequently drop dramatically. Yet when Daniel Abt and Lucas di Grassi look at these charts the



stakes to them are greater than those relating to mundane matters of money. The lines show the steering angle, brake pressure, speed or the position of the "gas" pedal. Plotted in color on a black background, they indicate where the two campaigners of Team ABT Schaeffler Audi Sport either lose or gain time. They can make the difference between victory and defeat.

40 megabytes in a race

"We glean about 40 megabytes of data from an entire Formula E race," says system engineer Rui Alves. At that time, though, the data serves only to follow up on the previous and to prepare for the next commitment. "Far more important are the analyses we provide to the drivers between practice sessions," says Alves. For this purpose, the ABT Schaeffler FE02 is quickly connected to a network cable at each pit stop to download the data. The use of telemetry — in other words radio

transmission – is only permitted for other readings such as battery temperature.

Projecting the charts either on a laptop screen or plotting them in a printout takes about ten minutes. "Even a quick first glance at the data shows if any major issues like severe over- or understeer occurred," says Alves. In the next step, Daniel and Lucas's best laps are visually superimposed – this allows the drivers to immediately see where their teammate accelerates earlier, brakes later or drives a different line.

"Particularly due to the short time we have on track in Formula E, taking a look at the data is worth a mint," says Daniel Abt and Lucas di Grassi confirms: "Sometimes you're a little lost on a new race track. That's when a direct comparison and a "best of" from our database often help you return to the racing line quickly."

Spectacular statement against climate change



In an unparalleled event, Formula E. Schaeffler and Lucas di Grassi have made a strong statement against global warming. In his Formula E car, the Brazilian turned laps on a glacier in Greenland

"Global warming is an issue that affects us all. The electric mobility can and will continue to play an important role against climate change in the future," says Schaeffler's CTO, Prof. Peter Gutzmer. "We regard Formula E with its innovations and new ideas as a driving force for mobility of the future and hence we were pleased to support this spectacular event."

In conjunction with the Greenland government and environmental activists as well as teaming up with other partners such the Monegasque Prince Albert Foundation and the University of Southampton, the event required careful planning so that it could be implemented with the least possible input. Stunning images have attracted huge interest worldwide with around three million visitors on YouTube alone. The images also provided footage for a 48-minute documentary which was premiered on the occasion of the international climate change conference held in Marrakesh at the same time as the ePrix.



Unknown territory The Formula E car is lowered onto the glacier

Global warming challenge

"The Greenland region is such a peaceful place. I was shocked to see how the landscape changes through global warming," says Lucas di Grassi. "This experience gives me a completely new understanding of the challenge we face and what Formula E can contribute."





ABT Sportsline is one of the most successful motorsport teams in Germany and Europe. Its history in racing dates back more than 60 years and began with initial victories scored by Johann Abt in the 1950s. The first recorded success took place in a dirt track race, followed by victories and titles in touring car, sports car and formula racing. 2009 has gone down in the company's history as the most successful year to date: Timo Scheider won the DTM, Christian Abt the ADAC GT Masters in the Audi R8 and youngster Daniel Abt was victorious in the ADAC Formula Masters. Previously, in 2007. Schaeffler and ABT had jointly celebrated success as well: with the logos of LuK, INA and FAG

on his A4, Mattias Ekström won his DTM title number two.

Founded as a smithy in 1896, the ABT company has been continually developing ever since. Just one thing has never changed: the family still runs the company with about 170 employees and partners in 50 countries around the world. CEO Hans-Jürgen Abt now represents the fourth generation at the helm. For ABT Sportsline, the commitment in Formula E also marks a return to the roots, as the team celebrated success in formula racing as far back as in the early 90s - among others, with Ralf Schumacher in the cockpit back then.

Moments



Johann Abt († 2003), father of Hans-Jürgen and Christian Abt, becomes European Touring Car Champion



Sporting the logos of the Schaeffler Group, Mattias Ekström becomes DTM champion



Christian Abt, Timo Scheider and Daniel Abt clinch three titles in a single year



ABT and Schaeffler win the first ever Formula E race

A strong team in the cockpit In Lucas di Grassi (32) and Daniel Abt (24) the squad of Hans-Jürgen Abt has its

dream team filling the cockpits of the two Formula E race cars. The experienced Brazilian and youngster Daniel Abt are not only fast and technically adept but perfectly harmonize with each other off the race track as well



Lucas di Grassit

Highlights

2005 1st in Macau GP 2006 Formula 1 Test

2007 2nd GP2 series.

Formula 1 test driver

2008 3rd GP2 series.

Formula 1 reserve driver

2009 3rd GP2 series,

Formula 1 reserve driver

2010 Formula 1

2013 3rd in Le Mans 24 Hours

2014 2nd in Le Mans 24 Hours.

4th WEC

2015 4th in Le Mans 24 Hours.

3rd FIA Formula F

2016 3rd in Le Mans 24 Hours, 2nd FIA Formula E

Vita

Date of birth August 11, 1984

Place of birth São Paulo (BR) Domicile Monaco (MC)

1.79 m Height

Weight 75 kg

lucasdigrassi.com.br

■ lucasdigrassiofficial

梦 @LucasdiGrassi

O lucasdigrassi

Daniel Abt 66

Highlights

2007 2nd ADAC Kart

Championship

2008 8th ADAC Formula Masters

2009 1st ADAC Formula Masters

2010 2nd ATS Formula 3 Cup

2011 4th FIA Formula 3

International Trophy,

7th Formula 3 Euro Series

2012 2nd GP3 series

2013 GP2 Series

2014 GP2 Series, FIA Formula E

2015 1st in Le Mans

24 Hours (class).

11th FIA Formula E

2016 19th ADAC GT Masters,

7th FIA Formula E

Vita

Date of birth December 3, 1992 Place of birth Kempten (D)

Domicile Kempten (D) 1.79 m Height

Weight 70 kg

danielabt.de

abtdaniel

daniel_abt

AbtDaniel





18



Race track >>> Road An electric circuit

Motorsport has always been a driver of developments that subsequently make their way into production vehicles. This now applies to electrified powertrains as well. In the FIA World Endurance Championship (WEC) with Le Mans as its highlight, high-tech hybrid race cars are pitted against each other and in Formula E, all-electric single-seaters are. For Schaeffler, both racing series have become pioneering test beds for future technologies

"The commitments in the WEC and in Formula E have been helping us gain a better understanding of the environment and systems of electric mobility," explains Prof. Peter Gutzmer, Schaeffler's Chief Technology Officer. Be it in terms of systems knowledge, the development of new materials, recuperation (recovery of braking energy) or thermal management – these are important findings

which also advance the Schaeffler technology group aside from racing with respect to ideas, visions and technologies for networked mobility for tomorrow. Schaeffler has significantly increased the size of its development team for electric vehicle components and new mobility concepts within a short period of time and is working at full stretch on sustainable mobility solutions. Six examples ...



E-bike

On bicycle expressways, powerful pedelecs – with Schaeffler hardware and software on board – provide a particularly fast and eco-friendly means of transportation for shorter distances. Branded as SCHAEFFLER VELOSOLUTIONS, the company offers an extensive and innovative product range.

See also: www.schaeffler-velosolutions.com

Electric car

Schaeffler's electric axles (pictured) help make traffic noise in inner cities a thing of the past, moving forward with a wide product range from Herzogenaurach. In this context, Schaeffler has developed an innovative modular system for electric axles in various configurations and build levels.





Bio hybrid

The innovative and compact mobility solution for urban areas not only provides weather protection but, featuring four wheels including an electric pedelec drive, high driving stability and ample stowage space. In spring of 2016, Schaeffler unveiled this design and development concept that met with positive response around the globe.

E-board

In addition to its handy dimensions, this ideal means of transportation for short distances in urban areas boasts hydraulic brakes and a range of 25 kilometers. At CES in Las Vegas in January 2017, Schaeffler showcased this prototype. Integrated in the board is a battery that drives the rear axle via an electric motor. The e-board is controlled using a stick with an ergonomically shaped handle.





Robot taxi

Self-driving buses with integrated wheel hub motors (pictured) from Schaeffler could provide a means of demand-based zero-emissions short-range public transportation in the future. All the drive components except for the battery are completely installed in the wheel. They include the electric motor, power electronics, the brake and the cooling system. eWheelDrive makes all-new drive concepts possible.

Hybrid vehicle

Hybrid components will continue to make conventional IC engine based powertrains more efficient. Schaeffler offers solutions across the entire range of electrification potential – from the 48-volt hybrid to the plug-in hybrid for various mounting positions to all-electric axles that assist the IC engine or serve as the sole short-term source of propulsion.





1899 Electrifying beginnings

The car picks up speed. The first car to exceed 100 kph: the electric race car "La Jamais Contente" made by Camille Jenatzy. That was 1899, the same year that the Baker Motor Vehicle Company began to build electric cars. Fully electric or hybrid drive from Ferdinand Porsche for the Lohner electric vehicle. The same idea with the Mercedes Eléctrique and Mercedes Mixte. Up to 1939, Detroit Electric models with more than a 100-kilometer driving range. Around the turn of the century there were more electric cars on the road than combustion ones. Only with the improvement of performance, range and gas station networks do petrol-powered vehicles take over.

1972 The limits to growth

Electric mobility means drive from a fixed electricity supply – trams, trains, trolley buses. But gasoline-power comes under pressure. The 1972 Club of Rome "limits to growth": Finiteness of resources. 1974 oil crisis. The industry responds with rudimentary electric drives: A BMW 1602 for the 1972 Olympics only has 32 kW (43.5 HP). In fleet tests, the electric transporters from Mercedes and VW, equipped with the batteries that were still very heavy in those days and with a capacity of approx. 22 kilowatt hours, merely had a range of 60 to 80 kilometers. And the electric models of Opel, Mercedes and VW in a large-scale project on the German island of Rügen are based on existing cars. This is the wrong path.



Fast currents

From the early alternative via public transport and back into the automobile: Electric cars have enjoyed a rapid history spanning more than 100 years and are only now coming of age



1996 Tailored for the future

Two things are needed: 1) A paradigm shift. In 1996, General Motors is the first major manufacturer to offer a car specifically designed for electric drive. Around 1,100 units of the EV1 are produced. Its cw value: 0.19. It reaches 130 kph with a range of around 250 km using 26.4 kWh from a nickel-metal hydride battery. 2) A technological leap, based on **lithium-ion batteries from Sony**. With these batteries, **Tesla joins** the car industry in 2008 with a roadster; 200 kph top speed, 350-kilometer range. In Japan, the Mitsubishi i-MiEV has been rolling off the assembly line since 2009. Today, there are many electric cars, and Schaeffler is a sought-after partner.

1997 Attractive alternatives?

The bridging solution comes from the **hybrid drive** using the combustion engine and electricity.

Toyota makes the breakthrough in 1997: **The Prius is a million-seller.** Electric drive is also possible without a battery: hydrogen and oxygen generate electricity in a fuel cell that drives the car. In 2003, a Mercedes A-class F-Cell is the world's first fuel cell passenger car to go into small-scale production. Since 2015, Toyota has produced the hydrogen model, Mirai.



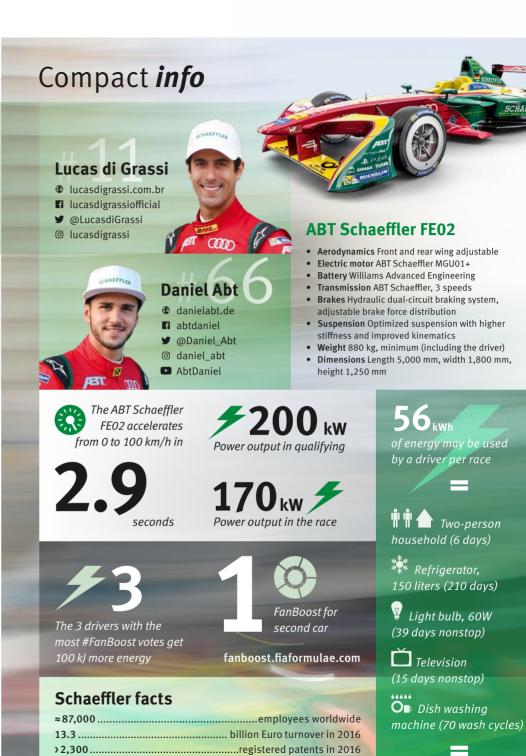




For Schaeffler, innovation has been part of its corporate DNA since the foundation of the company. It is based on lateral and interdisciplinary thinking

Schaeffler is known as an innovative leader delivering a wealth of technologies that make automobiles more fuel-efficient, environmentally friendly, and safer, as well as products for trains, aircraft, wind turbines, and many other industrial sectors. Schaeffler can be found wherever things are in motion — and motion also means mobility. The challenges facing mobility of the future are immense. That's why Schaeffler is committed to its holistic "mobility for tomorrow" concept, geared to finding sustainable solutions for the world of tomorrow.





25,000 active and pending patents

60.....Schaeffler components in automobiles worldwide (average)

17......R&D centers worldwide

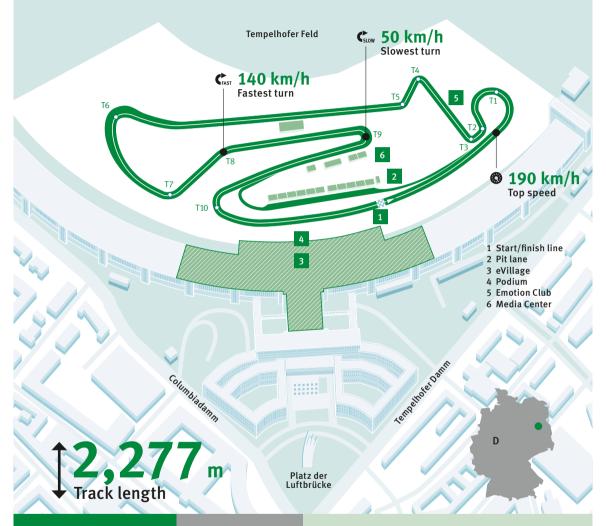
conventional AA

amount of energy

batteries provide the same

The race track

Berlin =



Schaeffler

- schaefflergroup
- schaeffler.com
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f abtmotorsport

- **Team ABT**
- abt-sportsline.de
- ▶ ABTSportslineTV

Formula E

Schedule Sat (June 10) and Sun (June 11) identical

08:00 - 08:45 Free practice 1

10:30 - 11:00 Free practice 2

12:00 – 12:36 Qualifying (4 groups)

12:45 - 13:00 Super Pole

14:00 – 14:30 Autograpf session (eVillage)

15:00 Driver parade 15:23 Pit lane open

16:04 Race (Sat 44 laps, Sun 46 laps)

17:05 Podium ceremony

17:15 – 17:30 Press conference (Media Center)



Learn more about mobility for tomorrow