## FACT SHEET XXL Round 6 FORMULA E PARIS

May 20, 2017



#### **Editorial**



Jörg Walz Vice President Communications and Marketing Schaeffler Automotive

Just seven days after the race in the motorsport mecca Monaco, the battle for the sixth winner's trophy of the season will be held about 700 kilometers further north, in the French capital. We have fond memories of last year's ePrix when Lucas di Grassi triumphed in the race around the world-famous Dôme des

Invalides. As the exclusive technology partner of Team ABT Schaeffler Audi Sport, we're pleased to present to you background information about the series, the drivers, the technology and our commitment in this Fact Sheet.

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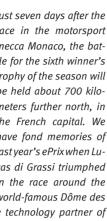
#### **Videos**







Down to the wire



Welcome to the fu ture!

**Electrifying** Team ABT Schaeffler Audi Sport

Electric, in the heart of cities, all over the globe – this is Formula E. Forget everything that you knew about motorsport, and experience the world of the first ever fully-electric international race series

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, permanent 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.



Racing for a reason



## 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



October 9, 2016

place finish – and this from second last



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

Lucas di Grassi makes motorspor history. Following a great battle.

#### The string of success continues

or ABT Schaeffler Audi Sport in the principality.



#### Historic

**Paris France** 

May 20, 2017 At just 1.9-kilometers in length, the race track around the historic Les Invalides is very short – ideal for the masses of fans. Lucas di Grassi won last year's race here.

#### 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.



#### 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.

City of dreams

**New York USA** 

July 15/16, 2017

9&10

#### **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**

Р	Driver	leam	Pts
1	Sébastien Buemi (CH)	Renault e.Dams	104
2	Lucas di Grassi (BR)	ABT Schaeffler Audi Sport	89
3	Nicolas Prost (F)	Renault e.Dams	48
4	Jean-Éric Vergne (F)	Techeetah	40
5	Sam Bird (GB)	DS Virgin Racing	34
6	Nick Heidfeld (D)	Mahindra Racing	32
7	Felix Rosenqvist (S)	Mahindra Racing	28
8	Nelson Piquet Jr. (BR)	NextEV NIO	27
9	Daniel Abt (D)	ABT Schaeffler Audi Sport	26
10	Oliver Turvey (GB)	NextEV NIO	15
11	Mitch Evans (NZ)	Panasonic Jaguar Racing	13
12	Maro Engel (D)	Venturi	12
13	António Félix da Costa (P)	MS Amlin Andretti	10
14	José María López (RA)	DS Virgin Racing	10
15	Jérôme D'Ambrosio (B)	Faraday Future Dragon Racing	10
16	Loïc Duval (F)	Faraday Future Dragon Racing	9
17	Robin Frijns (NL)	MS Amlin Andretti	
18	Esteban Gutiérrez (MEX)	Techeetah	
19	Adam Carroll (GB)	Panasonic Jaguar Racing	
20	Stéphane Sarrazin (F)	Venturi	1
21	Ma Qing Ha (CN)	Techeetah	(

#### **Team Ranking**

г	lealli	FLS
1	Renault e.Dams	152
2	ABT Schaeffler Audi Sport	115
3	Mahindra Racing	60
4	Techeetah	45
5	DS Virgin Racing	44
6	NextEV NIO	42
7	Faraday Future Dragon Racing	19
8	MS Amlin Andretti	18
9	Panasonic Jaguar Racing	17
10	Venturi	13

#### 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 wer pitted against the ten best fans. Daniel Ab finished in ninth place.



8

## High-tech for the race track

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

# Tires 18-inch wheels with Michelin control tires (same tread as for production cars) SCHAEFFLER Adjustable brake force distribution SCHAEFFLER Assumption Tires Brakes Hydraulic dual-circuit braking system, adjustable brake force distribution SCHAEFFLER Assumption Tires Assumption Tir

SONAX HERM

#### Suspensior

Adjustable front and

rear wing

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

Standardized steering wheel with paddles for shifting and recuperation, controls for various engine settings

Developed by Williams

Advanced Engineering, charging time: approx. 45 minutes

and a display for all key information

Specification carbon fiberaluminum chassis from Dallara



Video
The powertrain of the
ABT Schaeffler FE02



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

## Wellequipped

test kilometers were

covered by the team in

preparation for the season

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.

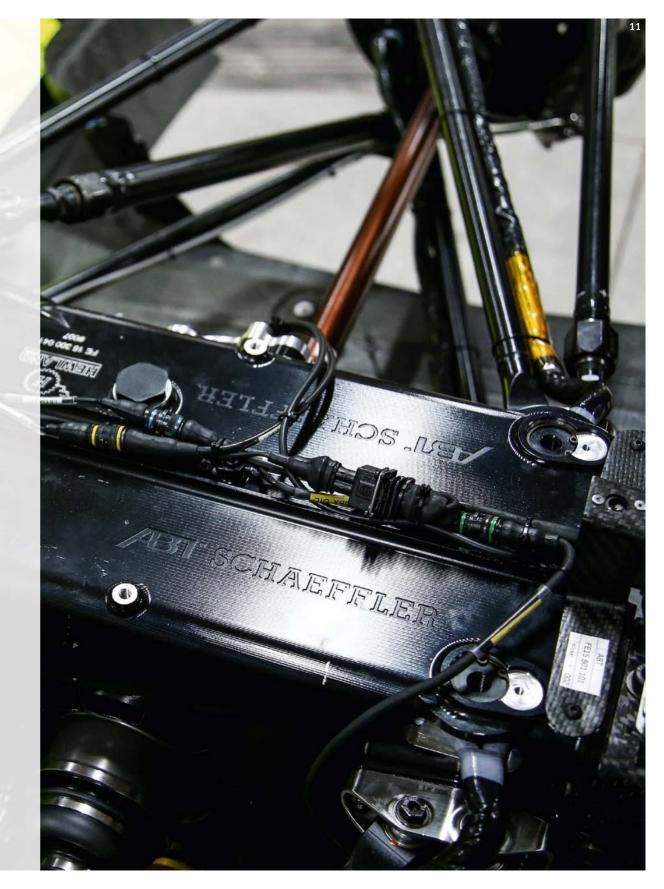
#### Improved details

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-

> 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 as well."

> nents. I would like to thank





Lucas, after your victory in Mexico, you said that this has arguably been the best race in your career. How did you feel being the hunted on so many laps who even had to fear running out of energy in the end?

Well, this wasn't the first time for me to be in a situation like that – the one at the season opener in Hong Kong was similar. However, thanks to our simulations with the team we were really well prepared for any contingency and had a precise strategy. Plus, I managed to drive very, very efficiently, particularly on the last laps. To some extent, my performance even surpassed the computer's optimum simulation. That really surprised us and – as so often in Formula E – we learned something again. Obviously, the team and I were absolutely euphoric when we held the trophy in our hands.

### Could you explain what possibilities in terms of energy management you have as a driver in a race?

Driving very efficiently is of paramount importance. In each of my two race cars, I have exactly 28 kilowatt hours of energy available. Assuming that I have to drive 28 laps on this amount before switching cars this means that I can consume exactly one kilowatt hour per lap. So, now I have to get around the circuit on this energy

In Formula E,
efficient energy
management
is totally crucial

as fast as possible ... This includes a sensitive approach to driving because you can drive fast and waste energy in the process or drive fast while making efficient use of this energy. My car provides me with various ways to influence this. Every braking event produces energy which can be used to charge the battery - this is called recuperation. When I brake using the foot pedal part of the energy is automatically recuperated, about ten percent of the entire braking energy. This ten percent is very important because I can directly use it again for acceleration on the next long straight. In addition, I have a lever on the steering wheel that I use for braking strictly via the electric motor and for very efficient recuperation. Good energy management is a successful combination of driving style, vehicle setup and race strategy.

#### How can you practice and perfectly prepare for this?

We prepare before the events because in Formula E practice, qualifying and the race all take place on the same day. Computers assist us with the initial basics. And as drivers we then sit in the team's simulator to fine-tune all the details. It may take two or three days or even longer to optimize the suspension and the powertrain setup in terms of energy management for all possible scenarios.

### Are your team and your race engineer of any help to you during the race? After all, you have all the data on your display ...

They're a big help. During the race, they give me pointers and recommendations precisely for the important items and keep an eye on energy management together with me. This has a major influence on my driving style and the settings I select from the various options on the steering wheel.

#### As a race driver, doesn't the fact that you have to use energy as efficiently as possible instead of just driving flat-out bother you?

No, it doesn't. Even in conventional race cars
- whether they're powered by gasoline or
diesel - you only have a limited amount of fuel

you can use. This is also the case at Le Mans, for example, where the LMP1 race cars as hybrid vehicles have to efficiently manage a specified amount of electrical energy and fuel energy. And off the race tracks, this applies to personal mobility using road cars as well. We'd like to, and have to, get from A to B as efficiently as possible. In the development of these technologies, Formula E with its regulations and strong focus on energy management is a great help.

This has clarified a lot, but the question remains of how exactly, in this car, you're able to do something that others drivers don't achieve quite as precisely. What's your secret?

If there was one, I'd like to keep it to myself ...  $\blacksquare$ 

#### **Efficient powertrain**

The development of the highly efficient powertrain in the ABT Schaeffler FE02 is the result of the cooperation between Schaeffler and ABT. The development objectives were to achieve an electric motor delivering high torque and high efficiency in combination with a transmission enabling short shift times for the three gears considered to be the optimum choice. In addition, the development was focused on lightweight design and lowering the center of gravity to the extent possible and on optimum tuning of the power electronics for the interaction of the motor, the transmission, the mechanical and the electric brake via the electric motor (recuperation). Last but not least, system management – i.e. the software – is the key to success in an electric powertrain. Software adjustments are the only modifications the regulations permit during the season. On page 18, you can read about the ways in which Schaeffler transfers the know-how gained in



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 Grassi 1 1

Date of birth August 11, 1984 Place of birth São Paulo (BR) Domicile Monaco (MC) 1.79 m Height Weight 75 kg

2009 3rd GP2 series,

Formula 1 test driver

Formula 1 reserve driver

Formula 1 reserve driver

**2010** Formula 1

**Highlights** 

2005 1st in Macau GP

2006 Formula 1 Test

2007 2nd GP2 series.

2008 3rd GP2 series.

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

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



## 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.



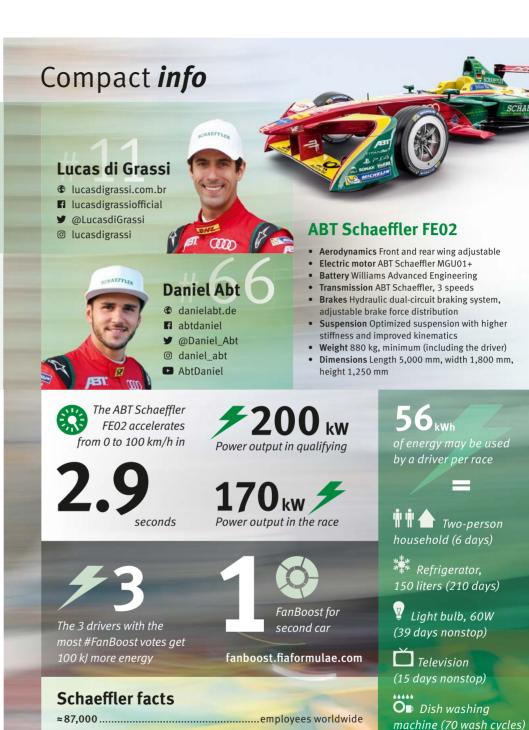


## Mobility for tomorrow

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.





13.3 billion Euro turnover in 2016
>2,300 registered patents in 2016
25,000 active and pending patents
170 locations in 50 countries

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

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

conventional AA

amount of energy

batteries provide the same

#### The race track Paris CFAST 120 km/h Fastest turn C<sub>SLOW</sub> 45 km/h Slowest turn Hôtel des Invalides 1 Start line 2 Finish line 3 Pit lane 4 eVillage 5 Podium 6 Emotion Formula E Club 7 Media Center **190** km/h Top speed 1,920 m

#### Schaeffler

- schaefflergroup
- schaeffler.com
- Schaeffler

#### **Team ABT**

- **f** abtmotorsport
- abt-sportsline.de
- ▶ ABTSportslineTV

#### Formula E

- **☞** FIAformulaE
- fiaformulae.com

#### Schedule Saturday, May 20, 2017

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 Autograph session (eVillage)

15:00 Driver parade 15:23 Pit lane open 16:04 Race (49 laps)

17:05 Podium ceremony

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



Learn more about mobility for tomorrow