ROAD TO INEXT. BMW GROUP BOOSTS ELECTRIC MOBILITY.

FORMULA E: ONE OF THE FASTEST GROWING TOP RACE SERIES IN THE WORLD.

- World's first FIA race series for fully electric cars.
- Debut-Season: September 2014 June 2015.
- Season 4: 10 teams, 20 drivers, 40 cars (two drivers and four cars per team).
- **Season 5: 11 teams, 22 drivers**, 22 cars.

Growth of audience in Season 4: +48%



BMW i ENGAGEMENTS IN FORMULA E.

FORMULA E OFFICIAL VEHICLE PARTNER.

- BMW i was founding partner of the Formula E from Season 1 onwards.
- BMW i provides the **Support Car Fleet** for Formula E.
- Support cars include the i8 Safety Car, i3 Medical Car, i3 Race Control Car, Rescue Car.

BMW i ANDRETTI MOTORSPORT.



- BMW has now officially entered the racing series as manufacturer with its own race team "BMW i Andretti Motorsport" from Season 5 onwards.
- BMW works drivers: Antonio Felix da Costa, Alexander Sims.
 Race car: BMW iFE.18.



IN-HOUSE DEVELOPMENT PARTS OF BMW iFE.18.

UNITY PARTS (WHITE):

- Standard chassis: Spark Racing Technology
- High-Voltage Batteries: McLaren
- Tires: Michelin



BMW PARTS (BLUE):

- Power train
- Rear-end structure
- Rear suspension
- Shock absorber
- Power train cooling

- 12V Electrics
- Brake-by-Wire
- Software (on-car / off-car)
- Oil development (with Shell)



■ Motor ■ Gearbox/Diff

ronics Fasteners

FORMULA E – GEN2. UNIQUE DESIGN AND EXCELLENT TECHNOLOGY.

KEY SPECS.



Max. Output Qualifying: Max. Power Race: Max. Speed: Acceleration: Length: Width: Height: Minimum weight:

250 kW (335 HP) 200 kW (270 HP) 240 km/h 0-100 km/h in 2.8 seconds 5200 mm 1800 mm 1050 mm

900 kg (Battery 385 kg)





DESIGN FACTS.

The **BMW Emblem** as the colouring **model of the entire design**.

Elements of this year's BMW M Motorsport Design also in BMW iFE.18.

Colour gradient from light- to dark blue shows movement and transition – Key topics of emobility.

The natural colours of pure electrification spread into a graphic network of blue and violet vanes.

In certain areas violet "synapses" appear at networkcrossings. The closer those crossings are located next to the BMW i power train, the more these are visible.

TECHNOLOGY LAB FORMULA E. BMW iFE.18 COMPARED WITH BMW i3.



BMW i3. E-Machine



THE TRAIL OF SUCCESS OF E-MOBILITY IS IRREVERSIBLE. BMW GROUP ELECTRIFICATION ROADMAP.

2013: Born electric.





OUR FUTURE IS ELECTRIC. AMBITIOUS TARGETS FOR SALES OF ELECTRIFIED VEHICLES.



PHEVS ARE KEY TO REDUCE CO2 EMISSIONS. NEW PHEV MODELS IN 2019.

13 PHEVs until **2025.**

Electric range up to 75 km (WLTP)*.

Zero emission driving in urban areas.

Attractive model line-up.



BMW X5 xDrive45e

M PW 627E

Mala 560

BMW 330e

BMW X3 xDrive30e

BMW 745e/745Le

EMISSION-FREE DRIVING PLEASURE.

12 pure electric vehicles until 2025.

Range up to 600 km (WLTP).

Modular System Gen5 for all electrified models.

2019 **BMW iX3 MINI Electric*** 2020

BMW i4

2021

BMW iNEX

3

2021

*partly Gen5

FLEXIBILITY IS THE KEY TO FULFIL OUR CUSTOMER NEEDS.



BMW i. FROM 'BORN ELECTRIC' TO A COMMON ARCHITECTURE FOR ANY TYPE OF POWERTRAIN.



THE GEN5 MODULAR SYSTEM ENSURES THE IMPLEMENTATION OF THE DIFFERENT VEHICLE ARCHITECTURES.



ROADMAP E-DRIVE TRAIN OF BMW GROUP. CREATING SYNERGIES.



BMW IN-HOUSE DEVELOPMENT AND PRODUCTION OF BATTERY MODULES AND PACKS SINCE 2008. FULL COMPETENCE IN CELL DESIGN.



BMW CONTINUOUSLY INCREASES CELL COMPETENCE TO ENHANCE THE LEVERAGE FOR REALIZATION OF CUSTOMER RELEVANT INNOVATIONS.





BMW Group Battery Cell Centre of Competence Materials & Analytics



... in combination with worldwide network





Opening July 2019







E-COMPONENTS PRODUCTION: PRODUCTION NETWORK ON THREE CONTINENTS WITH STRATEGIC EXPANSION.



BMW iFE.18. TECH LAB FOR iNEXT.

- Maximum efficiency.
- Maximum performance.
- Lightweight design.
- Minimum package.
- Robustness in extreme conditions.
- Latest technologies and materials.
- Know-how transfer series and motorsport.

INEXT

- Interes

Ren

25

arman/kardor

MICHELIA

HELLO SCIENCE. BYE FICTION.