

# BMW at the 42nd Tokyo Motor Show 2011. Contents.



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Note: Unless otherwise stated, the vehicles described in this press kit reflect engine and equipment specifications for the Japanese market. Specifications in other markets may vary.

# **1. BMW at the 42nd Tokyo Motor Show 2011. (Short version)**



The introduction of groundbreaking drive system innovations sees BMW taking driving pleasure to consistently greater heights, while at the same time reducing fuel consumption and emissions to ever lower levels. At the Tokyo Motor Show 2011 (3 – 11 December 2011) the German premium carmaker is underlining its pace-setting development expertise in this field with the presentation of next-generation BMW ActiveHybrid technology, new four-cylinder petrol engines with BMW TwinPower Turbo technology and – for the first time in the Japanese market – a six-cylinder in-line diesel engine with BMW BluePerformance technology. This year's Tokyo Show is hosting the world premiere of the new BMW ActiveHybrid 5. The full-hybrid Sedan brings together a six-cylinder in-line petrol engine, an electric drive system, an eight-speed automatic gearbox and a high-performance lithium-ion battery. This package of technology allows the brand's third hybrid model to be driven on purely electric power around town, offers drivers a boost function delivering extremely dynamic acceleration, and enables the car to coast with the combustion engine switched off. The BMW ActiveHybrid 5 also comes with a globally unique intelligent energy management system, which works in tandem with the navigation system to prepare the car's drive functions in advance for upcoming road conditions.

Members of the new generation of four-cylinder petrol engines with BMW TwinPower Turbo technology see action not only under the bonnet of the new BMW 1 Series, but also in the BMW X1 xDrive20i. And BMW TwinPower Turbo engines also provide the heartbeat of the new BMW 6 Series Coupé. Here again, the result is driving pleasure taken to another new level and efficiency without parallel in this market segment.

Advanced Diesel technology, including BMW BluePerformance, gives BMW another string to its bow when it comes to drastically reducing emissions on the road. Indeed, Japan is now preparing to welcome its first diesel BMW. The BMW X5 xDrive35d BluePerformance combines a sporty, commanding appearance with the imposing pulling power and exemplary emissions of its 3.0-litre six-cylinder in-line engine. In addition to a diesel particulate filter and oxidation catalytic converter, its exhaust treatment package also features an AdBlue system with urea injection to reduce NOx levels in the car's exhaust. All of which allows BMW BluePerformance technology to make its exhaust emissions as clean as possible and therefore satisfy the world's most stringent exhaust standards.



## **2. BMW at the 42nd Tokyo Motor Show 2011. (Long version)**

### **2.1 Individual and dynamic: The BMW Sport Line for the new BMW 1 Series.**

The new BMW 1 Series captures the imagination with newly developed engines, distinctive design, enhanced ride comfort and more generous levels of space in its lavishly equipped interior. Added to which, it also offers new and innovative ways for customers to give their car a carefully honed individual touch. For example, the introduction of the new BMW Lines offers an alternative to the car's standard specification. With exclusive design features and precisely coordinated equipment details, the individual Lines lend the new BMW 1 Series an unmistakable character.

The BMW Sport Line for the new BMW 1 Series includes sports seats with bespoke covers, a sports leather steering wheel with red contrast stitching, a red decorative strip on the car key, an adjustable armrest, interior trim strips in high-gloss Black and matt Coral Red accent strips. The instrument cluster, meanwhile, has special digit fonts and scales for the dials. Staying inside the car, customers can switch between Orange and White ambient lighting, which also includes additional light sources around the centre console and footwells.

Among the exterior features of the BMW Sport Line are bespoke 16-inch light-alloy wheels in Star-spoke design, a black trim strip for the exhaust tailpipe and door sills with "BMW Sport" lettering. The slats of the kidney grille, the trim bar for the centre air intake, the borders in the side air intakes and the trim strip in the rear bumper all come in high-gloss Black. Additional options include high-gloss Black exterior mirror caps and 17-inch light-alloy wheels in a bi-colour design.

Two variants of the new BMW 1 Series will be offered in the Japanese market. Power is provided by newly developed four-cylinder engines with BMW TwinPower Turbo technology producing 100 kW/136 hp in the BMW 116i and 125 kW/170 hp in the BMW 120i.

## **2.2 Progressive and urban: The BMW Style Line for the new BMW 1 Series.**



The new BMW Lines allow BMW 1 Series customers to give their car a very effective and well-coordinated personal touch. The BMW Style Line, for example, highlights the progressive facets of the compact model's character in particular. Exclusively composed equipment features, colour schemes and materials for the exterior and interior lend the new BMW 1 Series an appearance laced with urban elegance.

The BMW Style Line complements the standard BMW 1 Series specification with special fabric/leather seats, a sports leather steering wheel, an adjustable armrest and interior trim strips in an innovative acrylic glass, which generates a strong sense of depth and is available in White or Black with accent strips in matt Oxide Silver. This BMW Line also allows new 1 Series owners to alter the atmosphere on board their new car through the use of Orange and LED Royal Blue or White and Royal Blue ambient and welcome lighting. Additional B-pillar lighting heightens the effect.

Distinctive exterior features of the BMW Style Line for the BMW 1 Series include special 16-inch light-alloy wheels in V-spoke design, optional white-painted 17-inch wheels with high-gloss machined surfaces, and white rear bumper trim. White grille slats with chrome fronts and a likewise white trim strip for the centre air intake add extra flourishes to the front end of the car. The surrounds of the side air intakes are painted in body colour. Adding the finishing touches to the BMW Style Line are door sills with "BMW Style" lettering, a key with a white decorative strip, and optional white exterior mirror caps.

The BMW Lines can be combined with all the exterior paint finishes available for the new BMW 1 Series, as well as equipment packages and individual options. Plus, a predefined selection of alternative seat covers, interior strips, accent strips and light-alloy wheels is available to meet specific customer requests in the configuration of their new BMW 1 Series. The range of accessories for the new BMW 1 Series also offers colour and style-coordinated products for each BMW Line, including bags, floor mats and key cases.

## 2.3 Intelligence breeds efficiency: The BMW ActiveHybrid 5.



BMW has developed its intelligent hybrid drive technology to the next level with a further ActiveHybrid production model. Again, a petrol engine is combined with an electric motor to enhance both efficiency and the brand's hallmark driving pleasure. The BMW ActiveHybrid 5 is the company's first model to combine a BMW TwinPower Turbo six-cylinder in-line engine, an electric motor and an eight-speed automatic transmission. The latest-generation BMW ActiveHybrid technology also adds precisely controlled – and therefore extremely efficient – energy management to the mix. All of which means that for a car in the premium executive class, the BMW ActiveHybrid 5 offers an exceptionally good balance between performance and fuel consumption. The drive system delivers combined power of 250 kW/340 hp, allows all-electric operation up to a speed of 60 km/h (37 mph), accelerates the BMW ActiveHybrid 5 from 0 to 100 km/h (62 mph) in 5.9 seconds and limits average fuel consumption to between 6.4 and 7.0 litres per 100 km (44 – 40 mpg imp) and CO<sub>2</sub> emissions to between 149 and 163 g/km (figures as per EU test cycle, may vary depending on tyre format).

The 225 kW/306 hp six-in-line engine with BMW TwinPower Turbo technology in the BMW ActiveHybrid 5 is the same unit renowned for its fast-revving performance, torque and efficiency in the BMW 535i. The 40 kW/55 hp electric motor is powered by a lithium-ion high-voltage battery housed in the boot. The power from both drive units is transferred to the rear wheels via an eight-speed automatic transmission. The BMW ActiveHybrid 5 is a full hybrid, that is to say it can operate in all-electric mode, for zero-emission driving around town. At the same time it offers the sportiest performance in its class – but with a double-digit percentage improvement in fuel consumption over the BMW 535i.

To exploit the full potential of BMW ActiveHybrid technology, the power electronics incorporate intelligent energy management, with a host of innovative functions designed to ensure efficient powertrain operation. During braking and on overrun, the high-voltage battery is charged by the electric motor, which acts as a generator. When the vehicle is accelerating, on the other hand, the electric motor provides a boost function, supplementing the petrol engine to provide dynamic performance which adds noticeably to the sedan's sporty driving experience. In ECO PRO mode, it is possible to switch the petrol engine off on overrun and disconnect it from the drive shaft, at any speed up to 160 km/h (100 mph). This coasting mode combines smoothness

and comfort with optimal utilisation of the vehicle's kinetic energy. To prevent wasteful idling when the vehicle is stopped at intersections or in stationary traffic, the BMW ActiveHybrid 5 is equipped with a hybrid start-stop function. Plus, the power electronics are linked up to the BMW ActiveHybrid 5's standard-fitted Professional navigation system. This allows them to anticipate changing driving conditions and therefore to ensure that the powertrain always operates at maximum efficiency (effectiveness may vary depending on the quality of the navigation data).

All the hybrid-specific powertrain and energy management components were developed specially for the BMW ActiveHybrid 5. The result is an extremely well-integrated overall system which convincingly showcases the benefits of BMW ActiveHybrid technology out on the road. Needless to say, all the new hybrid components are designed to last the life of the vehicle.

The BMW ActiveHybrid 5 features the BMW 5 Series Sedan's sporty and elegant body design but with various additional touches which draw attention to its special drive technology. Among the visible identifiers are the "ActiveHybrid 5" inscription on the C-pillars, the BMW kidney grille with galvanised slats, matt chrome tailpipes and, optionally, 18-inch Streamline-design alloy wheels which offer excellent aerodynamic efficiency. Also, the BMW ActiveHybrid 5 is the only model in the BMW 5 Series offered with Bluewater metallic exterior paintwork. Doorsill finishers with the "Active Hybrid 5" insignia, an aluminium badge with the same ID on the centre console, a model-specific engine cover and the "ActiveHybrid Power Unit" inscription on the battery housing are further features that prevent confusion with any of the other model versions.

The ActiveHybrid 5 comes with the same choice of interior colours, seat upholstery and interior trim as the other BMW 5 Series Sedan versions. Additional standard-fitted luxury features include the Professional navigation system, 4-zone automatic climate control and stationary air conditioning.

## 2.4 A passion for aesthetics and dynamics: The new BMW 6 Series Coupé.



The new BMW 6 Series Coupé is a sports car that is sure to satisfy even the most dedicated fans of beauty, luxury and innovative technology in an automobile. The third generation of this luxury-class coupé continues premium carmaker BMW's decades-old tradition of building exclusive dream cars. The new BMW 6 Series Coupé mates irresistible design with driving dynamics that once again mark an advance over the previous model, as well as further improvements in comfort and increased interior space. This model is an extremely attractive blend of upscale, sporty design and exclusive touring comfort. For example, the boot can accommodate 460 litres of luggage.

BMW TwinPower Turbo engines combine sporty power delivery with outstanding efficiency. The V8 petrol engine of the BMW 650i Coupé and the six-cylinder in-line petrol engine of the BMW 640i Coupé develop maximum power of 300 kW/407 hp and 235 kW/320 hp respectively. Both engines are combined with an eight-speed sports automatic transmission. Also standard on the BMW 640i Coupé is an extensive BMW EfficientDynamics technology package that includes Auto Start-Stop and ECO PRO mode. The BMW 650i Coupé accelerates from 0 to 100 km/h (62 mph) in 5.1 seconds, while the BMW 640i Coupé does the same sprint in 5.8 seconds.

The new BMW 6 Series Coupé's newly developed chassis strikes an ideal balance between dynamics and comfort. The standard electromechanical power steering and optional Integral Active Steering both break new ground in this segment. Also on the options list are Dynamic Damper Control and the Adaptive Drive system with anti-roll stabilisation. The Driving Experience Control function, which is standard specification, allows drivers to customise the driving characteristics to suit their own personal preferences.

Options for the new BMW 6 Series Coupé also include adaptive LED headlights. The BMW ConnectedDrive driver assistance systems and mobility services, including the latest-generation BMW Head-Up Display with full-colour graphics, are pioneering in this segment. The Control Display of the standard-fitted BMW iDrive control system is a freestanding, fixed flatscreen. Exceptional sound quality is provided by the optional Bang & Olufsen High-End Surround Sound System.

## **2.5 More efficient, more assured, more luxurious: The BMW ActiveHybrid 7.**



BMW has come up with the most luxurious and commanding way yet to experience hybrid technology on four wheels: the BMW ActiveHybrid 7. Based on the BMW 7 Series, the hybrid Sedan sets the benchmark for efficiency in the luxury class. The combination of a V8 petrol engine with BMW TwinPower Turbo technology and a three-phase synchronous electric motor allows the BMW ActiveHybrid 7 to generate combined system output of 342 kW/465 hp and peak torque of 700 Newton metres (516 lb-ft). The drive system's power is transferred to the wheels by an eight-speed automatic gearbox. The electric motor, positioned in a compact space between the combustion engine and the automatic gearbox's torque converter, sources its energy from a high-performance lithium-ion battery developed specifically for automotive use.

The precisely regulated interplay between the two power sources delivers a dramatic improvement not only in efficiency but also in dynamics and comfort. The BMW ActiveHybrid 7 accelerates from 0 to 100 km/h (62 mph) in just 5.1 seconds, yet average fuel consumption in the EU test cycle is a paltry 9.7 litres per 100 kilometres (29.1 mpg imp), while CO<sub>2</sub> emissions are limited to 225 g/km.

The BMW ActiveHybrid 7 boasts a hybrid start-stop function which eliminates periods at idle while stationary at junctions or in traffic tailbacks. However, the climate control system can continue to work even when the engine is switched off, as – like the electric motor – it is supplied with power by the lithium-ion battery. This energy management concept also allows the deployment of an effective stationary climate control system.

Special displays in the instrument cluster and Control Display keep the driver up to speed on the effectiveness and operation of the hybrid components. Aerodynamically optimised turbine-style 19-inch light-alloy wheels (designed exclusively for the BMW ActiveHybrid 7) and model badges on the boot lid, the C-pillar rearwards of the side windows and the door sills help to set the hybrid BMW model apart. The first luxury BMW Sedan with hybrid drive is also available in two body variants. The extended version of the BMW ActiveHybrid 7 has a 14-centimetre longer wheelbase, and all of the extra length is translated into extra space in the rear compartment.



## 2.6 Spontaneous driving pleasure: The BMW X1.



As the BMW X1, the first premium model in its segment, pulls even further ahead of its rivals in terms of efficiency, BMW is presenting a new model variant of the compact all-rounder at the Tokyo Motor Show 2011. The BMW X1 xDrive20i sees a newly developed four-cylinder petrol engine with BMW TwinPower Turbo technology provide an even more successful balance between driving pleasure and fuel consumption. This power unit brings together a package of technology comprising a twin-scroll turbocharger, High Precision Direct Petrol Injection and VALVETRONIC variable valve control. All of which means the 2.0-litre, 135 kW/184 hp powerplant sets new standards for sporting power delivery in its output class and undercuts every rival in terms of fuel consumption and emissions.

The new powerplant develops its maximum output between 5,000 and 6,250 rpm, with peak torque of 270 Newton metres (199 lb-ft) arriving between 1,250 and 4,500 rpm. The engine's brawn and free-revving character, harnessed by the standard-fitted eight-speed automatic gearbox, helps the BMW X1 xDrive20i to sprint from 0 to 100 km/h (62 mph) in 8.6 seconds.

This drive technology – which also includes the intelligent all-wheel-drive system BMW xDrive – and its modern, versatile interior give the BMW X1 xDrive20i all the necessary tools to deliver a motoring experience rich in flexibility and variety. A multitude of open stowage compartments and pockets, cupholders in the centre console and large, open door bins with integrated holders for drinks bottles underline its practical character. The boot capacity of the five-seater can be expanded from 420 to 1,350 litres by folding down the rear seat backrests, while the raised seating position and driver-focused cockpit design further enhance the emotional driving experience on board the BMW X1.

## **2.7 Japan premiere for BMW BluePerformance technology: The BMW X5 xDrive35d BluePerformance.**



Impressive torque and exemplary efficiency are helping the current crop of BMW diesel engines to ride an ever-increasing wave of popularity both in Europe and in numerous other international markets. To this end, BMW BluePerformance technology is paving the way for outstandingly low fuel consumption and emissions which meet the world's most stringent legislation. And now BMW is also offering customers in Japan the opportunity to experience the qualities of Advanced Diesel with BMW BluePerformance. With the premiere of the BMW X5 xDrive35d BluePerformance at the Tokyo Motor Show 2011, the German premium carmaker is adding a Sports Activity Vehicle to its model range whose poise, assurance and versatility are underlined in consummate style by the new engine variant. Its 3.0-litre six-cylinder in-line powerplant with BMW TwinPower Turbo technology produces maximum output of 180 kW/245 hp and puts peak torque of 540 Newton metres (398 lb-ft) on tap between 1,750 and 3,000 rpm. The result is addictive power delivery reaffirming the model's sporting character, accompanied by extremely low fuel consumption and emissions.

In order to make its exhaust emissions as clean as possible, the BMW X5 xDrive35d BluePerformance is equipped not only with a diesel particulate filter and oxidation catalytic converter, but also with BMW BluePerformance technology. Here, an AdBlue system with urea injection further reduces the levels of nitrogen oxide (NOx) in the car's exhaust. The ammonia created through the injection of the AdBlue solution in the catalytic converter breaks down the nitrogen oxides in the exhaust into environmentally compatible nitrogen and steam. The optimised exhaust treatment system has no impact on the performance capability of the BMW X5 xDrive35d BluePerformance.

The BMW X5 xDrive35d BluePerformance accelerates from 0 to 100 km/h (62 mph) in 8.0 seconds. As well as an eight-speed automatic gearbox, it also comes as standard with BMW xDrive all-wheel drive, ensuring agile handling, reassuring stability and optimised traction in all conditions. The spacious, luxuriously appointed interior of the BMW X5 xDrive35d BluePerformance contains seating for five passengers, and the two-part tailgate opens to reveal a versatile luggage area whose capacity can be expanded from 620 to a maximum 1,750 litres.