



### Media Information

September 1, 2016.

### The new 2017 BMW i3 (94 Ah): More range paired to high-level dynamic performance:

- BMW i3 (94 Ah) with more powerful battery (33 kWh).
- Up to 200 km combined<sup>1</sup> (hwy/city) range under everyday conditions<sup>2</sup>.
- New BMW Home Charger Connect offering additional comfort and connected functions available in 2017.

**Richmond Hill, ON.** ... BMW Canada Inc. is pleased to introduce the 2017 BMW i3 compact electric car, featuring an upgraded battery pack with 50% increased capacity.

The 2017 BMW i3 with the new 94 Ampere-hour (Ah) battery has a capacity of 33 kilowatt hours (kWh) thanks to the higher energy density of the lithium ion cells. The battery dimensions remain unchanged while still offering a significant range increase. In everyday conditions<sup>2</sup>, the new Battery Electric BMW i3, in varying weather conditions and with the air conditioning or heating turned on, can achieve a range of up to 200 kilometres combined<sup>1</sup> (hwy/city), as verified by independent BMW testing cycles<sup>3</sup>.

The 2017 BMW i3 will continue to be available in a Range Extender variant which will also feature the new 94 Ah battery. When equipped with the Range Extender, if the driver requires additional range, the 2-cylinder gasoline engine is switched on once the battery is depleted to 6.5% state of charge and keeps the charge level of the battery constant while driving, providing an additional range of up to 150 km, thanks to a 25% larger fuel tank (9 litres).

The 2017 BMW i3 (94 Ah) arrives at Canadian BMWi Retailers in September with the following MSRPs:

BMW i3 94 Ah BEV (Battery Electric Vehicle) - \$46,900

BMW i3 94 Ah REX with Range Extender - \$51,500

The pricing includes standard DC charging, previously a \$750 option.

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<sup>1</sup> Preliminary test results for BMW i3 94 Ah BEV

<sup>2</sup> Range achievable according to BMW range testing cycle under everyday conditions in city environment, 20°C, heating/air conditioning, preheating, COMFORT driving mode. Range dependent on a number of factors.

<sup>3</sup> Final Environment Canada figures still pending.



The driving performance figures of the 170 hp AC synchronous electric motor remain virtually unchanged. The motor propels the BMW i3 from 0 to 100 km/h in just over 7 seconds. This makes the 2016 BMW i3 both the sportiest and most efficient electric vehicle in its segment with an expected EPA electricity consumption of 12.6 kWh/100 km (NEDC).

With the introduction of the 2017 BMW i3 (94 Ah), BMW i now also offers a new BMW Home Charger Connect, a residential charging station designed for comfortable and fast home charging featuring additional connected function.

**Higher storage density of the lithium ion battery cells.**

The BMW i3 (94 Ah) sets a new benchmark in its segment with 94 ampere hours (Ah) cell capacity, 33 kWh total battery energy, and an electric range of up to 200 km combined (hwy/city)<sup>1</sup> on one full battery charge.

The high-voltage battery of the BMW i3 consists of eight modules with twelve storage cells each and its capacity has increased by more than 50% without any changes in exterior dimensions. By optimizing the cell-internal packages with more electrolyte and adapting the active material, BMW and Samsung SDI have succeeded in increasing cell capacity to 94 Ah and overall battery energy to 33 kWh of which 27.2 kWh can be effectively used. The previous battery of the BMW i3 (60 Ah) produced 22 kWh (gross)/19 kWh (net).

The lithium ion cells used set themselves apart in the competitive field by achieving a special balance between high energy density, cycle stability and safety in the case of an accident. The high-voltage battery also has an advanced thermal management system that keeps the battery operating in the optimal temperature range, which further enhances performance. For example, the coolant of the air conditioning system is responsible for cooling the high-voltage battery very effectively, while a heating system can also be used to warm the battery to ensure the optimal operating temperature before starting off. The High-voltage battery is covered by an 8-year/100,000-mile warranty.



**The BMW i3 – a benchmark for sustainable mobility.**

During the development phase of the BMW i3, the entire architecture of the electric drivetrain was designed with the next technological steps, as well as serviceability, in mind. For example, if required, a single battery module can be exchanged to bring the battery pack to full capacity, distinguishing the BMW i3 from other competitive offers and represents an integral component of the holistic BMW i concept of sustainability.

In the production of the BMW i3, sustainability is optimized by the CO<sub>2</sub>-free supply of electricity via on-site windpower at the BMW i plants in Leipzig (assembly) and Moses Lake (CFRP production) as well as through a 70 percent reduction in water use in the production process compared to conventional automobiles.

**Optimized performance delivery, more efficient drive.**

The BMW i3 is by far the lightest car in its segment. Despite a slight weight increase, at 2,961 lbs (BEV), and 3,234 lbs (REX), the BMW i3 (94 Ah) is characterized by driving performance, which is subjectively as agile as the predecessor 60 Ah model variant. The BMW i3 (94 Ah) is also powered by the same 3 phase AC synchronous electric motor developed in-house by the BMW Group. The motor generates an output of 170 hp and delivers 184 lb-ft of torque which is available as soon as the electric motor begins to turn. The BMW i3 (94 Ah) accelerates from 0 to 100 km/h in just over 7 seconds. The impressive electric motor, small turning circle of 985 cm, – a major benefit to driving in the city – BMW's near-perfect 50-50 weight distribution, precise electric power steering and the stable suspension set-up help to make the i3 as satisfying to drive as every other BMW.

The sporting character of the BMW i3's electric motor is also clearly noticeable by its performance figure of 5.1 seconds accelerating from 80 to 120 km/h. This is a decisive factor for enabling fast and safe passing maneuvers, and is normally only achieved by combustion engine powered cars with considerably higher outputs. The BMW i3 (94 Ah) is close to the level of cars such as the (320 hp) BMW 340i. Power is transmitted to the rear wheels via the single-speed transmission, which the BMW i3 uses to accelerate without torque interruption to its electronically limited top speed of 150 km/h.

The electric consumption of the BMW i3 (94 Ah) has also been reduced through extensive detail enhancements including revised electric motor management as well as advanced low-resistance tires with optimized compound.



**Charging times.**

The 7.4 kW charging electronics of the BMW i3 (94 Ah) can charge the 33 kWh battery in approximately 4.5 hours using a Level 2 charger, which is slightly more than the approximately 3.5 hours required to charge the battery on the predecessor BMW i3 (60 Ah). Standard equipment of the BMW i3 includes the “occasional use” cable for connecting it to a domestic 110V power outlet. Core elements such as range, hallmark BMW agility thanks to low weight, and overnight battery charging remain in place.

The BMW i3 is equipped as standard with the future-proof 50 kW direct current (DC) fast charging technology. When the BMW i3 (94 Ah) is connected to a DC fast charging station, the battery cells are charged up to a minimum of 80 percent of their capacity in less than 40 minutes. This means that the BMW i3 (94 Ah) achieves a charging speed of km/min which corresponds to 24 minutes charging time per 100 kilometres of range.

**Range Extender for even greater range.**

The range of the BMW i3 is extended by a 650 cc 2-cylinder gasoline engine which is located adjacent to the electric drive above the rear axle. The Range Extender engine delivers a maximum output of 38 hp and powers a generator which in turn produces electricity to charge the lithium-ion battery pack, as required. Fitting the car with the Range Extender has no influence on the available luggage volume: the luggage compartment volume remains unchanged at 260 litres and can be extended to 1100 litres with the rear seats folded down. The BMW i3 (94 Ah) now features a 9 litre fuel tank (an increase of 25% ) further improving the overall range from its predecessor.

The BMW i3 (94 Ah) with Range Extender (REX) weighs approximately 120 kg more than the BMW i3 (94Ah) Battery Electric (BEV) but is also characterized by a high level of agility and offers impressive performance figures. It accelerates from zero to 100 km/h in just 8.1 seconds.

**New equipment on the BMW i3.**

The BMW i3 (94 Ah) is now available in the exclusive Protonic Blue metallic exterior color, previously only available on the BMW i8. The BMW i3 (94 Ah) customer can also choose from two non-metallic paint colors (Capparis White and Fluid Black) and, in addition to Protonic Blue, three metallic paintwork colors (Mineral Grey, Platinum Silver and Ionic Silver).



The highly anticipated electric glass sunroof is also available as an option for the first time in Canada and features a split sunroof headliner orientation, with individually retractable shades for the driver and front passenger, complementing the enhanced set of convenience features that the BMW i3 has to offer.

Standard profile and equipment for the BMW i3 (94 Ah) includes: Automatic climate control, Dynamic Cruise Control, LED Headlights, DC Fast Charging, Navigation Business System, BMW Assist and BMW Teleservices. Other standard features include: the iDrive operation system, the BMW i RemoteApp functionalities, the Driving Dynamic Control switch, hands-free telephone operation, and Park Distance Control (PDC).

**Comfortable home charging: the new BMW Home Charger Connect.**

In late 2016, BMW i will be offering the new BMW Home Charger Connect, a residential charging station designed for comfortable and fast home charging.

The new BMW Home Charger Connect, with a more compact, sleeker design, charges the battery of the BMW i3 (94 Ah) in approximately four hours and 30 minutes. The charging process starts automatically as soon as the car and charging cable are connected. The BMW Home Charger Connect is operated using an LED interface.

The BMW Home Charger Connect comes standard with WiFi and will feature innovative charging services which can be accessed remotely. This charger helps preserve vehicle range as it can precondition the vehicle battery when connected.

**ConnectedDrive: Setting standards through Connectivity.**

The optional Navigation System Professional provides BMW ConnectedDrive Services especially developed for BMW i. The range assistant follows the planned and currently driven route. If the destination selected in the navigation system is beyond the car's range, the driver receives the suggestion to shift to the ECO PRO or ECO PRO+ mode. Additionally, the system calculates a more efficient alternative route. Should it be necessary to recharge at a public charging station, the driver is shown all the available stations along the planned route.

A dynamic range map is another central element of the connected navigation unit. Apart from the current charging status of the battery, the driving style, the activated electric comfort functions and the selected driving mode, the topographic features, the current traffic situation and the outside



temperature are all taken into consideration. The Advanced Real Time Traffic Information (ARTTI) data is used for this purpose. The data is provided by the BMW ConnectedDrive Server.

The BMW i3 also sets standards when it comes to connecting driver and car. The BMW i Remote App provides useful vehicle-related mobility planning data available on the customer's smartphone. Apart from pedestrian navigation; navigating your way to your destination from the parking space and back, BMW ConnectedDrive offers a so-called intermodal routing system and for the first time in combination with the Navigation System Professional. This also incorporates public transport connections such as subway stops if this means you can reach your destination quicker. From the actual trip in the BMW i3, looking for a parking space, changing onto a metro and or a walking route, the BMW i ConnectedDrive services take the customer to his destination efficiently.

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### **BMW Group in Canada**

BMW Group Canada, based in Richmond Hill, Ontario, is a wholly-owned subsidiary of BMW AG and is responsible for the distribution of BMW luxury performance automobiles, Sports Activity Vehicles, Motorcycles, and MINI. BMW Group Financial Services Canada is a division of BMW Group Canada and offers retail financing and leasing programs and protection products on new and pre-owned BMW and MINI automobiles, as well as retail financing for new and pre-owned BMW Motorcycles. A total network of 46 BMW automobile retail centres, 20 BMW motorcycle retailers, and 30 MINI retailers represents the BMW Group across the country.

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