



BMW Unveils First All-Electric 3 Series, the 2027 i3

Description

BMW's upcoming i3 electric vehicle (EV) marks a significant step in the company's drive towards greener technology. Set to be launched soon, the i3 utilises advanced technology to improve performance and sustainability, combining these features to attract both eco-conscious drivers and car enthusiasts.

Key to the i3's performance is its innovative 800 V battery pack, which incorporates new cylindrical cells. These cells are 20 percent more energy-dense compared to the flat prismatic cells used in BMW's previous generation of EVs, such as the i4. The i3 can fast-charge with a direct current (DC) output of 400 kW and boasts an estimated range of up to 440 miles (708 km), representing a 30 percent increase over earlier models.

The i3 50 xDrive variant will feature both an asynchronous motor at the front and an electrically excited synchronous motor at the rear, delivering a total output of 463 hp (345 kW). Notably, energy losses are reduced by 40 percent compared to the previous generation, and the overall design is around 10 percent lighter and 20 percent cheaper to produce. Furthermore, the i3 incorporates approximately 30 percent recycled materials, enhancing its sustainability credentials.

Driving dynamics remain a priority for BMW. The i3 maintains a near 50:50 weight distribution and a low centre of gravity, ensuring a stable ride. The vehicle allows for effective regenerative braking, handling 95 percent of braking needs, which will likely reduce the reliance on traditional brakes.

As BMW prepares for the i3's launch, attention will be focused on how well it balances performance with environmental responsibility in a competitive market.

Vocabulary List:

1. **sustainability** //sə,steɪnə'bɪləti// (noun): keeping and protecting the natural environment
2. **innovative** //ɪ'nə'veɪtɪv// (adjective): new and using improved ideas or methods
3. **regenerative** //rɪ'dʒɛnərətɪv// (adjective): making energy again from the car's movement
4. **asynchronous** //eɪ'sɪŋkrənəs// (adjective): not happening at the same time
5. **output** //ˈaʊt,pʊt// (noun): the amount of power or work produced
6. **recycled** //rɪ'saɪkəld// (adjective): made again using old materials instead of new

Comprehension Questions



Multiple Choice

1. What type of vehicle is BMW's upcoming i3?

- Option: Hybrid vehicle
- Option: Gasoline vehicle
- Option: Electric vehicle
- Option: Diesel vehicle

2. What is the estimated range of the i3?

- Option: 300 miles
- Option: 440 miles
- Option: 500 miles
- Option: 600 miles

3. What is the output of the i3 50 xDrive variant?

- Option: 200 hp
- Option: 345 hp
- Option: 463 hp
- Option: 550 hp

4. What is the direct current (DC) output the i3 can fast-charge with?

- Option: 200 kW
- Option: 300 kW
- Option: 400 kW
- Option: 500 kW

5. What percentage of the i3's materials are recycled?

- Option: 20 percent
- Option: 30 percent
- Option: 40 percent
- Option: 50 percent

6. How much lighter is the i3's design compared to the previous generation?

- Option: 5 percent
- Option: 10 percent
- Option: 15 percent
- Option: 20 percent



True-False

7. The i3 uses flat prismatic cells in its battery pack.
8. The i3 can handle 95 percent of braking needs through regenerative braking.
9. Energy losses in the i3 are increased compared to the previous generation.
10. BMW aims to attract solely eco-conscious drivers with the i3.
11. The i3 features a low centre of gravity for improved stability.
12. The i3 has a battery voltage of 600 V.

Gap-Fill

13. The i3 uses an innovative _____ battery pack.
14. The energy-dense cells used in the i3 are _____ more efficient than the previous generation.
15. The vehicle's regenerative braking can handle _____ percent of braking needs.
16. The overall design of the i3 is around _____ percent cheaper to produce.
17. The i3's estimated range represents a _____ percent increase over earlier models.
18. The weight distribution of the i3 is nearly _____ to ensure a stable ride.

Answer

Multiple Choice: 1. Electric vehicle 2. 440 miles 3. 463 hp 4. 400 kW 5. 30 percent 6. 10 percent

True-False: 7. False 8. True 9. False 10. False 11. True 12. False

Gap-Fill: 13. 800 V 14. 20 percent 15. 95 16. 20 17. 30 18. 50:50

Vocabulary quizzes



Multiple Choice (Select the Correct answer for each question.)

1. What term describes the process of increasing rapidly?
Option: Decreasing
Option: Escalating
Option: Stabilizing
Option: Integrating
2. Which word means to destroy completely?
Option: Create
Option: Obliterate
Option: Preserve
Option: Build
3. What is the process of removing salt from seawater called?
Option: Desalination
Option: Contamination
Option: Purification
Option: Filtration
4. Which word means valid or lawful?
Option: Illegitimate
Option: Legitimate
Option: Fraudulent
Option: Fake
5. What term describes a sudden decrease or drop?
Option: Surged
Option: Climbed
Option: Plunged
Option: Stabilized
6. What word describes a sudden powerful forward or upward movement?
Option: Dropped
Option: Surged
Option: Declined
Option: Fell
7. What term is used to describe a significant decline in economic activity?
Option: Recession
Option: Prosperity
Option: Stagnation



Option: Development

8. Which term refers to the value of shares issued by a company?

Option: Debt

Option: Asset

Option: Equity

Option: Liability

9. What term refers to arenas where buyers and sellers meet?

Option: Exchanges

Option: Markets

Option: Stores

Option: Auctions

10. What term refers to the forming of a theory or conjecture without firm evidence?

Option: Conclusion

Option: Assumption

Option: Speculation

Option: Fact

Gap-Fill (Fill in the blanks with the correct word from the vocabulary list.)

11. The city's _____ was improved with new roads and bridges.

12. The initiative focuses on environmental _____ for future generations.

13. The new product is an _____ solution to an old problem.

14. They invested in _____ agriculture to restore the soil.

15. The program offers _____ learning options for students.

16. The factory increased its _____ to meet the rising demand.

17. The paper was made from _____ materials to reduce waste.

18. The economic _____ affected many businesses worldwide.

19. The company announced _____ due to financial struggles.

20. The stock market _____ have shown a downward trend this quarter.



Matching Sentences (Match each definition to the correct word from the vocabulary list.)

21. The escalating costs of living are causing many to struggle financially.
22. The powerful storm was strong enough to obliterate entire communities.
23. Desalination plants are crucial for providing fresh water in arid regions.
24. He provided legitimate proof of his identity when asked by the authorities.
25. The stock market plunged following the unexpected news.
26. Demand for electric vehicles has surged in recent years.
27. The country entered a recession after several quarters of negative growth.
28. Equity investments can contribute to your portfolio's growth over time.
29. There was much speculation about the company's future after the CEO resigned.
30. Sustainability practices are essential for protecting the environment.

Answer

Multiple Choice: 1. Escalating 2. Obliterate 3. Desalination 4. Legitimate 5. Plunged 6. Surged 7. Recession 8. Equity 9. Markets 10. Speculation

Gap-Fill: 11. infrastructure 12. sustainability 13. innovative 14. regenerative 15. asynchronous 16. output 17. recycled 18. downturn 19. layoffs 20. indices

Matching sentence: 1. escalating 2. obliterate 3. desalination 4. legitimate 5. plunged 6. surged 7. recession 8. equity 9. speculation 10. sustainability

CATEGORY

- 1. Business - LEVEL5

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