

## Electric-car battery charges in five minutes

24th January, 2021



Car makers are spending a lot of money on electric cars. In the future, electric cars will replace petrol cars.

Environmentalists believe this will reduce the amount of CO2 put into the atmosphere. A big

problem for electric cars is charging the battery. Some batteries in today's electric cars can take up to 12 hours to charge fully. However, a company in Israel says it has created a lithium-ion battery that people can charge in just five minutes. This is the same amount of time it takes to fill a tank of gas with petrol. The new lithium-ion batteries were developed by the Israeli company StoreDot. They are being manufactured by a Chinese company called Eve Energy.

The new batteries could totally transform driving. They would mean electric cars would be able to travel as far as petrol cars. Many people with electric cars today suffer from "range anxiety". This is stress caused by worrying about the battery running out of electricity. A StoreDot spokesperson said: "You're either afraid that you're going to get stuck on the highway, or that you're going to need to sit in a charging station for two hours." The new batteries would end this anxiety. A StoreDot spokesperson said: "We're at the point of achieving a revolution in the electric vehicle charging experience". He said it means the switch from petrol to electric cars will happen much faster.

Sources:  
[businessinsider.com](https://www.businessinsider.com) / [theguardian.com](https://www.theguardian.com) / [timesofisrael.com](https://www.timesofisrael.com)

### Writing

All cars should be electric within the next ten years. Discuss.

### Chat

Talk about these words from the article.

car makers / electric cars / atmosphere / battery / charge / time / petrol / company / transform / travel / anxiety / electricity / highway / spokesperson / revolution / switch

### True / False

- a) Car makers are spending very little money on electric cars. T / F
- b) Some electric-car batteries take 12 hours to charge. T / F
- c) A company in Israel developed a lithium-steel battery. T / F
- d) The new battery is being made in China. T / F
- e) The article says electric cars will be able to go farther than petrol cars. T / F
- f) "Range anxiety" is worrying about getting stuck on a road somewhere. T / F
- g) The battery company said a revolution is coming with charging. T / F
- h) The company said the switch to electric cars will be very slow. T / F

### Synonym Match

(The words in **bold** are from the news article.)

- |                        |                   |
|------------------------|-------------------|
| 1. <b>replace</b>      | a. only           |
| 2. <b>problem</b>      | b. worry          |
| 3. <b>just</b>         | c. made           |
| 4. <b>developed</b>    | d. change         |
| 5. <b>manufactured</b> | e. time           |
| 6. <b>transform</b>    | f. take over from |
| 7. <b>anxiety</b>      | g. invented       |
| 8. <b>afraid</b>       | h. occur          |
| 9. <b>point</b>        | i. difficulty     |
| 10. <b>happen</b>      | j. scared         |

### Discussion – Student A

- a) What do you think of electric cars?
- b) In what ways are electric cars better than petrol cars?
- c) How bad are petrol cars for the environment?
- d) What do you think of charging electric-car batteries?
- e) Would you prefer an electric or petrol car?
- f) What do you know about batteries?
- g) How much CO2 does charging the batteries create?
- h) Should we use public transport instead of cars?

## Phrase Match

- |                                |                        |
|--------------------------------|------------------------|
| 1. Car makers are spending     | a. on the highway      |
| 2. electric cars will          | b. of CO2              |
| 3. reduce the amount           | c. as petrol cars      |
| 4. take up to                  | d. of gas              |
| 5. fill a tank                 | e. to electric cars    |
| 6. travel as far               | f. a lot of money      |
| 7. range                       | g. revolution          |
| 8. you're going to get stuck   | h. 12 hours to charge  |
| 9. at the point of achieving a | i. replace petrol cars |
| 10. the switch from petrol     | j. anxiety             |

## Discussion – Student B

- What do you think about what you read?
- What do you think of petrol cars?
- In what ways are petrol cars better than electric cars?
- How would the new battery transform driving?
- Would you worry about running out of petrol?
- How might the new battery change driving?
- What gives you anxiety?
- What questions would you like to ask the battery maker?

## Spelling

- electric cars will plaeecr petrol cars
- this will urcdee the amount of CO2
- take up to 12 hours to charge uylfl
- the same uaothm of time
- dveepldoe by the Israeli company
- fuaruatndmc by a Chinese company
- totally snatrfom driving
- people with electric cars today fuesrf
- range xtaneyi
- sit in a charging oisatnt for two hours
- at the point of achieving a vurooitne
- the electric vehicle charging rcxeeenepi

### Answers – Synonym Match

1. f	2. i	3. a	4. g	5. c
6. d	7. b	8. j	9. e	10. h

## Role Play

### Role A – Looks

You think looks is the most important thing in a car. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the least important of these (and why): safety, performance or comfort.

### Role B – Safety

You think safety is the most important thing in a car. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the least important of these (and why): looks, performance or comfort.

### Role C – Performance

You think performance is the most important thing in a car. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the least important of these (and why): safety, looks or comfort.

### Role D – Comfort

You think comfort is the most important thing in a car. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the least important of these (and why): safety, performance or looks.

## Speaking – Cars

Rank these with your partner. Put the most important thing about cars at the top. Change partners often and share your rankings.

- |          |                   |
|----------|-------------------|
| • Looks  | • Fuel efficiency |
| • Safety | • Performance     |
| • Speed  | • Price           |
| • Colour | • Comfort         |

### Answers – True False

a	F	b	T	c	F	d	T	e	F	f	T	g	T	h	F
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Answers to Phrase Match and Spelling are in the text.