



Nevada Gigafactory Invests \$1 Billion in Lighter Lithium Sulfur Batteries

Description

New battery technologies can have a big impact on various industries. Lyten, a company, is planning to build a huge factory in Nevada that will change how we power space technology, drones, and small electric vehicles.

This factory will be the world's first lithium-sulfur battery gigafactory, covering a 125-acre site near Reno. Costing over \$1 billion, it will create more than 1,000 jobs and produce batteries that are entirely made in the U.S. with locally sourced materials. Lithium sulfur batteries offer benefits such as being lighter and using fewer materials like nickel and cobalt in production.

These batteries are expected to be used in space crafts, drones, and light electric vehicles, providing longer ranges and flight times. This will help make electric-powered vehicles more environmentally friendly. Lyten's mission is to advance technology that reduces reliance on fossil fuels, receiving investments from companies like FedEx.

Battery technology is crucial for the future. Companies like Tesla are pushing for innovations in battery technology to improve the performance of electric vehicles and other devices. The U.S. Department of Energy is investing \$3 billion to support U.S. battery makers and reduce reliance on Chinese manufacturers.

Vocabulary List:

1. **Gigafactory** /'gɪgə,fæktəri/ (noun): A large-scale factory designed for the production of batteries.
2. **Lithium** /'lɪθ.i.əm/ (noun): A soft silvery-white metallic element used in batteries.
3. **Sulfur** /'sʌl.fər/ (noun): A yellow chemical element used in various applications including batteries.
4. **Innovations** /,ɪn.ə'veɪ.fənz/ (noun): New ideas methods or products that improve existing technology.
5. **Reliance** /rɪ'laɪ.əns/ (noun): Dependence on someone or something for support or help.
6. **Environmentally** /ɪn,vai.rən'men.təl.i/ (adverb): In a manner that relates to the natural world and the impact of human activity on it.

Vocabulary quizzes

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

1. Which type of speech aims to convince the audience to adopt a certain belief or take a specific action?
Option: Persuasive



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- Option: Performance
Option: Confidence
Option: Anxiety
2. Which term refers to new methods ideas or products that bring about positive change or improvement?
Option: Layoff
Option: Staggering
Option: Machinists
Option: Innovations
3. What is the type of stress that can be positive motivating and lead to personal growth?
Option: Affluent
Option: Disparities
Option: Eustress
Option: Necessities
4. What type of factory produces batteries at a large scale such as those used in electric vehicles?
Option: Environmentally
Option: Impending
Option: Layoff
Option: Gigafactory
5. Which term is used to describe a high-quality luxury product or service that commands a higher price?
Option: Struggling
Option: Staggering
Option: Premium
Option: Machinists
6. Which term refers to a feeling of worry nervousness or unease about something with an uncertain outcome?
Option: Persuasive
Option: Performance
Option: Confidence
Option: Anxiety
7. What are difficulties or obstacles that are faced on the path to achieving a goal or success?
Option: Eustress
Option: Affluent
Option: Disparities
Option: Challenges
8. Which term describes practices or actions that are friendly or safe for the natural world?
Option: Gourmet



- Option: Discerning
- Option: Environmentally
- Option: Impending

9. What term describes having a great deal of money or wealth?

- Option: Premium
- Option: Struggling
- Option: Affluent
- Option: Staggering

10. Which term refers to the process of making or manufacturing goods on a large scale?

- Option: Machinists
- Option: Production
- Option: Lounge
- Option: Experience

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

11. _____ is the belief in oneself and one's ability to succeed.
12. Prices that have been adjusted for _____ changes account for the impact of rising prices over time.
13. The sense of an _____ crisis caused widespread concern among the population.
14. The company announced a massive _____ that would affect hundreds of employees.
15. Despite _____ in the market the company remained determined to stay afloat.
16. The amount of revenue generated by the new product was truly _____.
17. Skilled _____ were essential in ensuring the proper function of the factory equipment.
18. Having prior _____ in the field made her a valuable asset to the team.
19. The hotel was renowned for its exceptional _____ and top-notch service.
20. The restaurant prided itself on serving only the finest _____ dishes to its discerning



customers.

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

21. The anticipation of an upcoming promotion created a positive form of stress that motivated the employees to perform better.
22. The company's success was heavily dependent on the of its customers to choose their brand over competitors.
23. Electric vehicles often use batteries that contain as a key component for energy storage.
24. The hotel catered to a clientele who had high expectations for quality and service.
25. The market remained positive despite the recent economic downturn.
26. The company's ambitious expansion plans put it on a growth that would see it enter new markets.
27. The looming deadline caused a sense of among the team members as they rushed to complete the project.
28. Overcoming the various in the industry required innovative solutions and a determined mindset.
29. The dark clouds on the horizon gave a sense of doom as a storm approached.
30. The luxury brand offered a service that catered to clients seeking exclusivity and top-notch quality.

Answer

Multiple Choice: 1. Persuasive 2. Innovations 3. Eustress 4. Gigafactory 5. Premium 6. Anxiety 7. Challenges 8. Environmentally 9. Affluent 10. Production

Gap-Fill: 11. Confidence 12. Inflation-adjusted 13. Impending 14. Layoff 15. Struggling 16. Staggering 17. Machinists 18. Experience 19. Hospitality 20. Gourmet

Matching sentence: 1. Eustress 2. Reliance 3. Lithium 4. Discerning 5. Sentiment 6. Trajectory 7. Anxiety 8. Challenges 9. Impending 10. Premium

CATEGORY

- 1. Business - LEVEL3

Date Created

2024/10/17

Author



aimeeyoung99

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