

**PIENAAR ENERGY (PTY) LTD**

# **Solar glass for lithium batteries**



## Overview

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It uses a glass electrolyte paired with lithium or sodium metal electrodes, setting it apart from traditional designs. This innovative approach offers remarkable benefits: Higher energy density — up to twice that of standard lithium-ion batteries. Faster charging — minutes. Nanyang Technological University researchers have milled solar panel glass waste for use in cathodes used in solid state lithium metal batteries. Capital goods used in producing lithium-ion cells for batteries and battery energy storage systems (BESS) and solar glass will now be exempt from basic customs duty Finance Minister Nirmala Sitharaman in her Budget 2026 lent a helping hand to India's clean energy ambitions, announcing customs duty. New Delhi [India], February 3: Shyam Sunder Jindal, Promoter of BC Jindal Group, has applauded the Union Budget 2026 for its strong focus on boosting domestic manufacturing for India's clean energy ambitions. When used as a functional filler in solid polymer electrolyte (SPE) material, the resulting battery performance was maintained over 80 charge cycles with. India's Union Budget 2026-27 extends basic customs duty (BCD) exemptions on the import of capital goods used for lithium-ion cell production for battery energy storage systems (BESS), as well as capital goods required for processing critical minerals.

## Solar glass for lithium batteries

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### What is Glass Battery Technology and How It Works

Glass battery technology uses a solid glass electrolyte for safer, faster charging, higher energy density, and longer lifespan compared to traditional batteries.

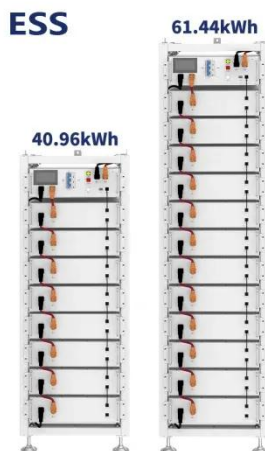
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### Union Budget: Customs duty cuts to facilitate domestic battery, solar

The basic customs duty on sodium antimonate, used in the manufacture of solar glass, has been cut from 7.5% to 0. "Specified" capital goods required for manufacturing lithium-ion cells for



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### India's Union Budget 2026-27 removes customs duty on solar glass ...

India's Union Budget 2026-27 extends basic customs duty (BCD) exemptions on the import of capital goods used for lithium-ion cell production for battery energy storage systems (BESS), as well as ...

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## Re-using end-of-life solar waste for solid state lithium metal batteries

In this study, we demonstrate that nanoparticles derived from solar glass can effectively enhance the performance of solid polymer electrolytes (SPE), thereby improving battery performance.

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## Shyam Sunder Jindal welcomes Budget 2026 push for domestic battery ...

Sharing his views on the announcements, Shyam Sunder Jindal said, "In the Budget 2026, it is encouraging to note the Government's focus on domestic manufacturing of lithium-ion batteries and solar ...

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## Upcycling solar glass waste to use in solid-state lithium batteries

A team of researchers at Nanyang Technological University in Singapore has developed a process to use solar panel glass waste as a raw material for cathodes in solid-state lithium metal batteries.

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## Does solar glass contain lithium? Why? , NenPower

Although it is not utilized in solar glass, lithium-ion batteries form an integral part of harnessing the energy produced by solar panels. As solar energy can be intermittent, depending on geographic location ...

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## In a boost for renewable energy, Budget slashes duties for battery

Capital goods used in producing lithium-ion cells for batteries and battery energy storage systems (BESS) and solar glass will now be exempt from basic customs duty

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