

# Sitapur siblings' e-bikes run on reusable batteries

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**Lucknow:** Worried about the greenhouse gas emissions and carbon footprint, engineer brothers from Sitapur district have come up with an electrical bike — Landstar — that runs on reusable lead acid batteries.

While Anshul Verma (23) is a computer science engineer his brother Abhishek Verma (22) is a mechanical engineer.

Together, the duo has developed an e-bike that reduces electronic wastage.

“The existing e-bikes use lithium batteries which, once damaged, can't be reused. We have in our innovation used lead acid batteries that are reusable by replacing its electrodes,” said Anshul who has put on display a prototype of his e-bike at the Global Investors Summit.

His firm Uttam Industries has already signed a MoU with the UP government for production of e-bikes. The e-bike has a mileage of 80 to 85 kms per charge and takes approximately four hours to get fully charged. The maximum speed of the e-bike is 45 km per hour.

Battery-powered bikes, said Abhishek have shown great promise as an effective and environment-friendly transport solution. “Not only are



Anshul Verma

they affordable but they are portable as well. And with reusable batteries, it emerges as an even better option,” he said.

Global warming is a severe problem affecting the environment worldwide, primarily due to the excessive consumption of fossil fuels for transportation, which accounts for a fifth of global carbon emissions. As a result, many environmentally conscious people are looking for sustainable alternatives to replace fossil fuels. “As soon as you buy a car, insurance fees, daily fuel expenses, and routine maintenance costs soon start to pile up. But these e-bikes empower us to decrease your environmental footprint and combat climate change on an individual level,” said Anshul.