

NEWS BRIEF

Bengaluru Metro Blue Line Could Run Entirely On Solar Power, IISc Study Finds; Annual Savings May Cross Rs 2,600 Crore

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Prefer



The Blue Line's 18 km elevated section between Central Silk Board and KR Pura is scheduled for completion by December 2026.

Bengaluru's upcoming Namma Metro Blue Line could become one of India's first metro corridors capable of operating entirely on solar energy on a net annual basis, according to a new study conducted by the Indian Institute of Science (IISc) in collaboration with Bangalore Metro Rail Corporation Limited (BMRCL).

The study explored the feasibility of directly integrating solar power into the nearly 55 km Blue Line connecting Central Silk Board with Kempegowda International Airport under Metro Phases 2A and 2B.

Researchers concluded that the corridor's complete annual traction energy demand could be met using solar infrastructure installed entirely on BMRCL-owned properties.

The report estimated that around 83.3 MWp of solar capacity would be enough to support the corridor's projected annual electricity requirement of 152 GWh, even during full-scale operations with trains running at two-minute intervals.

According to the findings, metro station rooftops, depot structures, viaduct parapets and station canopies together can accommodate up to 89 MWp of solar installations.

Researchers stated that nearly 30 MWp of rooftop solar infrastructure could be installed immediately without major modifications to the existing metro system.