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UPDATE

CAN SUSTAINABLE ARCHITECTURE RESHAPE GREEN AESTHETICS?

Chitra Vishwanatha, Architect of Biome Environmental Solutions believes India demonstrates a commendable grasp of its environmental responsibilities and has made significant progress. Numerous practices in the country are exemplary in their ecological approach.

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The game-changing missing link to transform Mumbai-Pune Expressway



India's first Expressway, connecting Mumbai and Pune, is transforming significantly after completing the long-awaited Missing Link project. Scheduled to be unveiled by July 2024, this project will allow the Expressway to bypass the treacherous and winding ghat section, providing a smoother and safer journey for the thousands of motorists who travel between the two cities. Around 85 per cent of the current Expressway traffic will utilise this new route.

Managed by the Maharashtra State Road Development Corporation (MSRDC), the Missing Link project has achieved several notable milestones, including creating the world's widest twin

tunnels. These tunnels, spanning 47 meters and accommodating ten lanes, have been recognised by the Guinness World Records. Creating natural lighting within the tunnels, divided into two sections measuring 8.9 kilometres and 1.7 kilometres, has been completed. The remaining task involves connecting the two tunnel stretches with a cable-stayed road link, which will be the tallest in the country. This cable-stayed bridge is currently under construction in the picturesque Tiger Valley of Lonavala, a popular weekend getaway. Rahul Vasaikar, the project's superintendent engineer, reports that the construction of pylons and connecting pillars for the bridge is in its final stages. The pylons have an average height of 132 meters,

with the tallest reaching 182 meters.

By bypassing the 19-kilometre Khandala ghat section, the 12.1-kilometre Missing Link project aims to reduce the distance between Mumbai and Pune by over 6 kilometres, resulting in a time savings of nearly 30 minutes. This travel distance and time reduction will lead to substantial savings in fuel consumption and carbon emissions, as the ghat section's ascent and traffic congestion tend to burn more fuel. While the toll structure for the Expressway will remain unchanged, motorists will be required to pay tolls for an additional 15 years beyond the existing contract period, which was originally set to end in 2030. 🛠️



The future is solar



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Ashok Kewat

Managing Director

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Ashone Technology facilitates green energy transition with consulting and integration

“Revolutionising building design and energy conservation for a sustainable future.”

Indian economy, on the cusp of becoming the world’s third-largest economy, is harnessing the power of green energy to fuel its growth. Energy security and conservation have become paramount, with the ambitious goal of making India carbon-neutral by 2070. As every industry strives to reduce its carbon footprint, the energy demand continues to rise, leading to the depletion of fossil fuels and exacerbating global warming.

To address these challenges, the Indian government introduced the Energy Conservation Act 2001, prioritising energy conservation in building design and efficient energy utilisation. The Electricity Act of 2003 further revolutionised the power sector through Open Access, enabling anyone with a connected load exceeding 100 KW to purchase green energy from anywhere in the country. This groundbreaking reform has opened the doors for promoting green energy on a larger scale.

In this endeavour, energy consumption must be minimised by adopting energy-efficient practices. Building designs that adhere to the Energy Conservation Building Code (ECBC) play a vital role in conserving energy. Additionally, using renewable

energy sources like solar power and other emerging technologies can significantly reduce the reliance on conventional power plants.

Leading the way in the power sector and rooftop solar industry, Ashone Technology is making significant contributions to India’s growth story by providing green energy consultancy and services. Ashone Technology is transforming structures into truly green buildings by integrating solar energy with building design.

Ashone Technology brings a wealth of experience and expertise, ensuring that sustainable practices are seamlessly integrated into building projects. Their consultancy services enable developers and builders to incorporate solar energy systems from the initial design phase, optimising energy efficiency and reducing environmental impact. Through their efforts, Ashone Technology is pivotal in driving India’s green energy revolution.

As the nation strives to achieve its carbon neutrality goals, Ashone Technology stands at the forefront, empowering the construction industry with the knowledge and tools to embrace sustainable practices. By leveraging its

expertise and promoting the integration of renewable energy, Ashone Technology is paving the way for a greener, more sustainable future for India.

With its commitment to green energy consultancy and integration, Ashone Technology is significantly impacting India’s journey towards a sustainable and thriving economy. Their contributions to building design and energy conservation are instrumental in realising India’s vision of becoming a global leader in green energy adoption. With the collective efforts of industry, government, and organisations like Ashone Technology, a greener and more prosperous future awaits India. 🌱

