

### Applicant Details

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### Idea Title



Smart & Sustainable Energy Solutions for Mysuru – Vision 2030

### Problem Statement

Mysuru mainly depends on the Jog Falls Hydel Project, which is seasonal and insufficient for rising demand. Free electricity is temporary relief, but if withdrawn, middle and lower-income families will face difficulties. Relying on one source increases risks of shortages and higher costs. The city must diversify into sustainable and local energy solutions.

### Proposed Solution

Inspired by global models, Mysuru can adopt:

1. **Solar Cycle Paths** – Generate power and provide shaded cycling routes.
2. **Kinetic Pavements** – In crowded areas to power lights and signboards.
3. **Electrified Bus Routes** – Pilot project for wireless charging of buses.

These phased projects will reduce dependency on hydel power, encourage green mobility, and strengthen Mysuru's Smart City image.

### Technology Used

- Solar panels
- Piezoelectric pavements
- Wireless power transfer
- IoT smart grid monitoring

### Target Users

- Families, commuters, public utilities, tourism sector, government.

### Impact & Feasibility (Under 150 words)

**Impact:** Affordable clean energy, reduced bills, eco-friendly transport, smart city branding.

**Feasibility:** Proven worldwide. Start with pilots, expand gradually using CSR, PPP, and government support.

### Prototype Status

☒ Idea Stage

(Demo Video: [https://youtu.be/j\\_UT1Cq1dAw](https://youtu.be/j_UT1Cq1dAw))

**Future Scope**

Expand solar paths across ring roads, install pavements in busy areas, electrify major bus routes. Integrate into IoT smart grid for energy stability. Mysuru can become self-sufficient and a model green city by 2030.