Profile of Dr. J. Balamurugan

With an illustrious career of more than **24 years**, Dr.J. Balamurugan has contributed immensely to **energy management, smart metering, and sustainable solutions** in India.

He holds a **Doctorate in Engineering**, a **Master's in Technology**, and a **Bachelor's in Engineering**, with research expertise in applying **AI and Machine Learning** to power system problems.

Professionally, he has served as **Assistant Executive Engineer at TANGEDCO** and at the **Tamil Nadu Energy Development Agency**, where he led **landmark renewable energy projects** including **solar-powered EV charging stations** and **biofuel initiatives**. His work in **Smart Metering, High-Voltage Systems, and IT Infrastructure** has set benchmarks in the energy sector.

As a leader, he is the **Chairman of the Institution of Engineers, Thiruvallur Local Centre**, and Vice President of Institution of Green Engineers (IGEN)has organized **national and international conferences**, workshops, and seminars to promote knowledge sharing. His renownedevent **ENERGATHON 2020** even found its place in the **world records**.

Beyond his technical brilliance, Dr.J Balamurugan is also a **social contributor**. He has established **Energy Conservation Clubs**, audited over **4100 households and 25 industries**, conducted more than **200 awareness talks**, and through **Agatiam Trust**, continues to serve orphanages and underprivileged communities. Notably, he spearheaded the **Agathiar Rocket Science Program**, which enabled government school students to visit Russia and participate in satellite projects under the guidance of Padma BhushanDr. A. Sivathanu Pillai.

For his outstanding work, he has been honored with multiple **international awards, world records, and patents**, including a global patent for a **Smart Energy Meter**.