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Mimic In-House Article
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What's in store for Industry 2026?

The year 2026 will be a pivotal time for advancements in wastewater treatment, agriculture, and solar-powered systems. These sectors are poised for significant transformations driven by smart technologies, automation, with a focus on sustainability.

In **wastewater management,** the shift is towards smarter, greener, and more automated processes. The use of smart sensors, energy monitoring, and solar integrated systems will be on the increase. Real-time monitoring control combined with Artificial Intelligence (AI), Internet of Things (IoT) and Industrial Internet of Things (IIoT) will allow wastewater plants to adapt dynamically, improving consistency and efficiency. Energy efficiency will be enhanced through the integration of solar power or biogas capture, reducing electricity costs and carbon footprints. Modular or decentralized treatment units coupled with reuse-oriented strategies will become more prevalent, particularly in areas with limited infrastructure. Predictive maintenance and process optimisation, using data from sensors and historical records, will minimize downtime and prevent environmental issues.

Agriculture is also embracing automation, sensors, and renewable energy. Precision irrigation, using IoT soil sensors and automated controllers, will reduce water waste and improve yields. Solar-powered irrigation for rural regions or areas where electricity is unreliable could provide an all round solution, while saving on operational costs. With the added use of AI, swifter adaptations to changing climate conditions can be expected in addition to optimised water usage. Integrated farm management systems will continue to monitor soil, weather and nutrient levels, increase automated irrigation, and improve water and energy management.

Transformative results can be expected by using electrical power monitor meters for **solar energy,** for energy systems that track electricity usage, detect inefficiencies, and optimise scheduling. Solar-powered pumps and controllers with IoT connectivity will enable off-grid operations. Automated temperature and environmental control will be essential for greenhouse, hydroponic, and controlled-environment agriculture, enabling sustainable, high-yield production.

Companies like **Novus Automation** and **Multispan India** are already offering devices that align with the automation, sensing, and control systems needed for 2026 and beyond.

Call our office for more information!

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