



**IIoT**

**(Industrial Internet of Things)**

**VS**

**SCADA**

**(Supervisory Control and Data Acquisition)**

# Enerco Energy Solutions LLP



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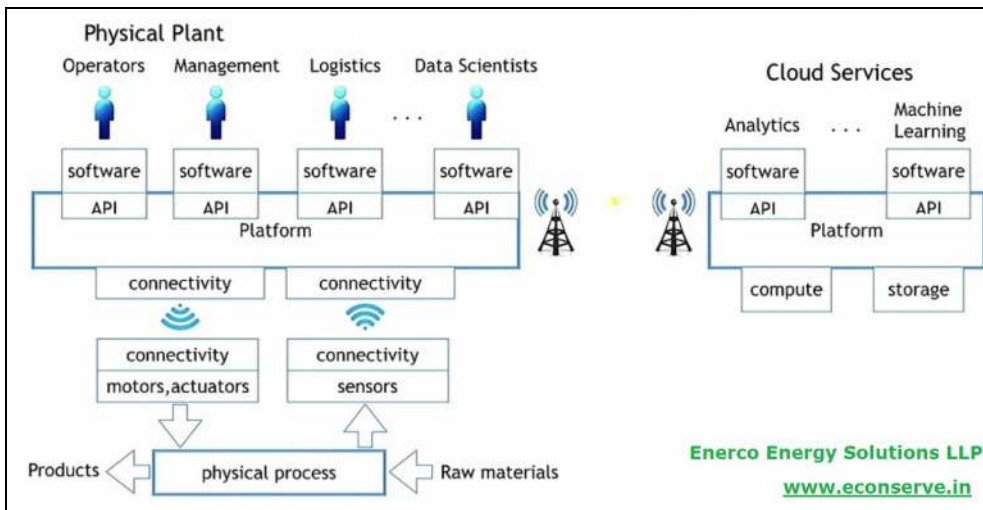
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## About IIoT

**IIoT** means Industrial Internet of Things. It provides an ecosystem to integrate various business functions for smarter and timely decision making.

For a factory IIoT is a means to achieve Smart manufacturing in a **connected factory (as per Industry 4.0)** wherein each of the equipment communicates with other equipment and / or with the centralized software platform and constantly generates useful data in real-time (and stored historically as well).

The data thus generated and represented through visualization can be used for making appropriate responses inline with the Industry best-practices, business goals and Company / Shop-floor requirements. It has definite advantages over SCADA / PLCs which is focused only on production or shop-floor requirements. Comparison between IIoT and SCADA follows.



	IIoT	SCADA
<b>About</b>	IIoT provides an ecosystem for inter-operability <b>between machines</b> and <b>between machines and humans</b> to make intelligent data-driven business and operational decisions by integrating all processes across business verticals.	SCADA is primarily about sensors and actuators (using PLCs) and presenting that data to human beings for control.  In a nutshell, SCADA is a

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	In a nutshell, <b>IloT</b> is a strategic solution for complete integration of your various business units for accurate decision making, improved productivity and planning.	tactical solution for <b>HMI (Human to Machine Interface)</b> for data presentation and control of equipment.
<b>Difference</b>	<p>IloT focuses on analysing machine data (SCADA could be a data source) to improve productivity and Company top-line and hence has a <b>strong business-use</b> case as it has widespread application.</p> <p>In addition to data generated within the plant it also uses <b>Artificial Intelligence &amp; Machine Learning (AI/ML)</b> and cloud technologies.</p> <p>IloT is about integration of <b>IT</b> (Information Technology) &amp; <b>OT</b> (Operational Technology).</p> <p>Another edge that IloT has over SCADA is enhanced security. Security is centre to IloT deployment at all stages and layers.</p>	<p>SCADA focuses on monitoring and control of plant equipment by providing data to operators and supervisors. It uses the information and data which is generated within the plant only. It <i>may not</i> always have a direct business use-case.</p> <p>SCADA is more about <b>OT</b> (Operational Technology).</p> <p>SCADA has limited application with limited security options.</p>
<b>Why is it required</b>	IloT is required for smooth, seamless operation by use of advanced systems and technologies to enable intelligent decision making by use of <b>Big Data</b> .	SCADA is required for day-to-day monitoring and control of what is going on in the factory.

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<b>Benefits</b>	IIoT enables complete digitalization and digital transformation of the organization for resource optimization, business continuity, operational excellence and enhanced predictability for planning.	SCADA enables real-time data updates for enhanced operational effectiveness.
<b>Recommendation</b>	IIoT is recommended as a strategic solution for any type of Company which wants to be future ready by using advanced <b>Big Data, IoT and Artificial Intelligence &amp; Machine Learning</b> for business continuity and resource optimization at all levels (including operational efficiency).	SCADA is recommended as a tactical solution for manufacturing units looking only to improve operational efficiency.

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