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PLASMA TECHNOLOGY: ITS CURRENT and FUTURE IMPACT ON VARIOUS INDUSTRIES

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Plasma, known also as the forth state of mater, constitutes over 99.9% of our universe. However, our planet appears to be an exception to the rule, where plasma, in its natural state, exists only rarely. The incentive for human to generate and study plasma state started as scientific curiosity, but it has grown into an important enabling industrial tool, with applications in variety of industrial sectors. The proliferation of plasma technology is primarily driven by market forces as well as environmental regulations imposed by various governments, which have opened opportunities for plasma technology to become a substitute technology for applications related to advanced surface engineering and synthesis of new materials, among others. In this presentation we will highlight some of the current and potential future applications of the technology that impact variety of industrial sectors, including renewable energy, health and advanced engineering, by presenting examples that impact (or could impact) the quality of our lives.

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