



ISPT

A VISION FOR THE FUTURE OF PROCESS TECHNOLOGY

Chemical process technology is being pushed towards a revolution through changing social context, increased knowledge, and growing availability of alternative energy and materials. Future plants will need to be more flexible than today, both in size and operation. A limited number of game-changing technological breakthroughs will lead to significant progress for the industry.

Examples of these advancements are cost effective scalable separations, improved understanding of liquid interactions, and exploring the full potential of 3D printing for industry, including the potential use of brand new intelligent construction materials. Industry needs to prepare for a shift to flexible plants, that are able to process a mixture of less pure inputs composed of biological and recycled origin, while using electrically powered technologies. This challenge gets an extra dimension because of the variable availability of all these resources. It is no wonder that for such a change, an integral design and optimization of a production plant rather than its individual processes was considered key by many.

