

House of Decentralized Environmental Solutions

Ever since its inception in 1996, WAPP (Water, Air, Pollution and Prevention) has been setting new standards of excellence in the areas of Water, Waste, Energy & Environment Management. “With our integrated approach based around Solutions, Services and Technologies, we offer continuous value addition to our customers, a concept we call Eco-Inno-Vision,” says Rajesh Jain, director of the company.

Today, WAPP has developed into one of the leading companies in India in the fields of energy, environmental and waste management. The company has been growing at a compounded Annual Growth Rate of nearly 25 % since inception. Companies engineering professionals are recruited from IITs (Indian Institutes of Technology) and other reputed engineering institutions with a particular emphasis on Process, Mechanical, Civil, Environmental and Electrical disciplines. WAPP has successfully completed over 200 projects, particularly in the sectors of Waste Water and Water management, across India over the last 15 years and employs around 500 people – with the head office in Delhi and branch offices in Mumbai, Chennai and Kolkata. Supplementing them is a nationwide team of project personnel located at various operation sites to service on-going projects working in tandem with clients.

Core Competence Progression

In many industries, water is used extensively as a processing medium. Any reuse or recycling process of wastewater can have a dramatic impact on a plant's operating and maintenance cost. WAPP specializes in developing and implementing a range of water reuse processes for some of the most demanding and challenging industrial applications. WAPP exclusively promote WAPPSYS Oxy-Bio Technology, which is a modified Sequential Batch Reactor (SBR) process for wastewater treatment for all target segments. Its advantage lies in automation to minimize manpower and manual controls, lower space/equipment requirement and reduced energy cost. With unique and aggressive business models, leveraging on the existing core competence, WAPP is now venturing into the areas of:

- Automation Solutions
- Green Building Solutions
- Solid Waste Management
- Biotechnology-Environmental Solutions
- Energy Efficiency / Renewable Energy
- Asset Management Engineering Services.

To achieve these goals, WAPP decided – among many other things - to implement the professional engineering tool CADISON® (see interview below). The benefits of CADISON® support the ambitious goals of WAPP: The tool combines the engineering workflow in

one system and thus significantly accelerates the planning processes. The common object-oriented data model for the different fields of application (tender planning, process engineering, installation planning, pipeline planning, electrical engineering, instrumentation etc.) makes it possible to integrate all planning phases so that time and costs are saved.

CADISON® serves to collect valuable information in the tendering phase already so that staff members have the required data available in all later phases of project handling.

Interview

“CADISON® helps in streamlining engineering processes”

Rajesh Jain, the Promoter & Director of ‘Enhanced WAPP Systems’, is a graduate in Chemical Engineer from IIT, Delhi, and has over fifteen years of experience in the sector of water/wastewater management, environment management and waste-to-energy projects. He keeps in mind the client perspective and has steered the company to successfully diversify into strategic areas and services. As a leader, he has catalyzed rapid growth for WAPP. And he decided to work with CADISON®. Here's why.

CADISON WORLD (CW): Mr. Jain, what were your plant engineering challenges towards achieving maximum productivity? How has CADISON® helped you to overcome these challenges?

Rajesh Jain: We had limited capabilities before CADISON®. But now with CADISON®, we can do certain process in lesser time with lot of precision, like P&ID, 3D, Piping, and generating Isometrics and proper BOQ (Bill of Quantity), which were too much time consuming and were done in parts. Administration has become user friendly and simple.

CW: What were your challenges for a similar capacity project without CADISON®? What benefits did you observe with CADISON®?

Rajesh Jain: Before CADISON®, we had to do lot of engineering aspects as separate exercises. Hence we had to do lot many cross checking for any possible mismatch among these. But now, since all are integrated and automatic, total time for delivery has been reduced and errors are minimized. Visualization was difficult in AutoCAD drawings and job would become person specific. CADISON® has solved some of these problems.

CW: In conclusion – how has CADISON® enhanced your competitiveness with respect to the end user?

Rajesh Jain: CADISON®, with its intelligence, helps in streamlining engineering processes with minimal confusion. Thus minimizing errors.