Controls projects with insight and intelligence
For new power generation units, by the power generation experts.

siemens.com/dcs4power
Expertise that meets experience
Meet the people with the know-how.

Said Badraldin, Electrical Power Engineer
An engineer with heart and soul: Said relies on close and trusted cooperation with his customers to deliver the best solutions – while taking engineering values into account. Driven by customer satisfaction, he always aims to offer win-win situations which provide the best outcomes for all parties.

“I take the time to understand every single requirement from our customers, their customers, and the future plant operator. And I fight for the best solution.”

Vinesh Shinde, Senior Executive Engineer
A cool head under pressure: Vinesh’s extensive experience in the engineering and commissioning of various control systems helps him ensure that all goes well – even in critical power plant environments. Having helped successfully execute projects in countries all around the globe, Vinesh taps on his deep understanding of the entire power generation process to coordinate efficient engineering.

“Having handled thousands of different interfaces, everyone behind the scenes at Siemens, and many suppliers – I know that coordination is key to the success of a DCS project.”

Christian Fleischer, MBA & Electrical Engineer
It all began with an apprenticeship in electrical engineering more than 30 years ago: Christian’s experience working in various roles since then helps him to think outside the box. And this is a man who knows how to successfully lead teams: having helped build a capable project execution team in Mumbai and managed a sales force in Korea.

“I make sure that every single team member understands exactly what he or she needs to do – and their value to the team when it comes to guaranteeing a project’s success.”
An approach that makes the difference

Our insights ensure your outcomes.

We know the power plant process like the back of our hand. From engineering to optimizing operations – we take the time to ask the right questions, understand your needs, develop solid concepts, and find clever solutions to challenging requirements. Then, by implementing these solutions, we help you get your plant up and running on time.

Progress made
Our engineers know the power generation process inside-out and think ahead to whatever possible solutions for challenges you might face – even before you experience them. Ensuring smooth, stress-free progress on your project.

Deadlines met
Time is critical when it comes to commissioning a power plant. Our experts work together and draw upon their combined experience to make sure that every phase of your project is implemented on time.

Promises kept
At the end of the day, your power plant must meet requirements. That’s where our project managers and our engineers shine: they are flexible and can think out of the box to implement robust concepts that meet the needs of everyone involved.

Flexibility – Facilitating changes
Timeliness – Meeting the deadline
Performance – Keeping promises

Earn from our experience

From small hydropower plants to 6 GW boiler power plants: More than 3,000 successful installations around the world bear testimony to the competence of our experts. We have also got what it takes to deal with all types of components from all relevant manufacturers – from switchgears to CFB boilers – as well as all conceivable interfaces and protocols.
A method that works

From start to start-up.

Control technology concept
Ready for implementation

The planning phase

Translating requirements into an implementable concept
The most important thing when starting a project is making sure that every single project requirement is crystal clear. There is often more than what is usually stated in the technical specifications. As experts in the power plant planning process, we are able to assess feasibility early on and pinpoint factors that could influence the overall project – and in doing so, develop a control technology concept that is resilient and meets the requirements of all parties involved.

What our power generation experts do:
• Draw on our strengths in power plant and controls engineering
• Listen, question, and understand your needs
• Consider all stakeholders: from the builder of the plant, partners, and suppliers to the future operator

The implementation

Breathing life into a complex concept
Coordinating the construction and equipment is a sophisticated task. We are here to guide every starting with being proactive and coordinating that makes sense. The fact that we have our very own engineering, manufacturing, and assembling capacities gives and advantage when it comes to implementing optimally and on time.

And because change is inevitable: Our project extremely flexible and think beyond milestones Adjustments can be implemented (and reversed) easily even after the factory acceptance test.

What our power generation experts do:
• Tap on our experience in project implementation
• Translate the concept into a viable solution
• Work together with other involved parties to integrate their products and processes in the DCS
Coordinating the construction and equipment of a power plant is a sophisticated task. We are here to guide every step of the way; starting with being proactive and coordinating interfaces in a way that makes sense. The fact that we have our very own engineering, manufacturing, and assembling capacities gives us an added insight and advantage when it comes to implementing the entire project optimally and on time.

And because change is inevitable: Our project engineers are extremely flexible and think beyond milestones to mitigate risks. Adjustments can be implemented (and reversed) quickly and easily even after the factory acceptance test.

**What our power generation experts do:**
- Tap on our experience in project implementation
- Translate the concept into a viable solution
- Work together with other involved parties to integrate their products and processes in the DCS

Siemens is here to lend a helping hand during all aspects of commissioning. Our experienced engineers work together in cohesive, well-rehearsed teams to make sure that the control technology does what it is supposed to do and that everything runs smoothly.

They support commissioning engineers with their in-depth technical expertise and experience with getting certifications, acceptances, and regulatory approvals.

Our portfolio also includes IT security services, which can be implemented during commissioning, and assistance with plant optimization when required.

**What our power generation experts do:**
- Offer our support and expertise in commissioning
- Strive for a successful start-up at first go with every plant
- Assist in applying for approvals from the relevant regulatory authorities
Success starts in the control room

SPPA-T3000 – raising performance in power plant operation
A system that supports success
Smooth projects rest on SPPA-T3000.

Leverage on system features such as:

- Integrated and easy engineering
- Worldwide access to the same project
- Need for code compilation eliminated
- Switchable modes: toggle between operation and configuration modes in the workbench
- Verifiable changes with rollback functionality
- Multi-language support
- Uncompromising resilience concept including cybersecurity features and long-term system care

SPPA-T3000 is the market-leading control system that is specially tailored for power and heat generation – when it comes to hardware, specific control algorithms for all plant operation tasks, and a huge comprehensive function library for all imaginable plant configurations.

The system is supported by a software concept called Embedded Component Services (ECS). It is object-oriented and keeps data consistent. All information on individual process components is integrated into a data object – from engineering to operation, from diagnostics to alerts and archiving.

When it comes to communication, the SPPA-T3000 also leaves nothing to be desired: The architecture is adaptable for every plant configuration including HART coupling, PROFIBUS, PROFINET, classical and intelligent field devices, IEC, and OPC UA.

Uncompromisingly flexible: SPPA-T3000 communicates with internal and external systems via a vast variety of protocols.