



## Automation Solution for Energy Consumption Reporting

*Delivered energy saving of 12 %  
through production and energy  
benchmarking.*

### Industry

Food and Beverage

### Client Summary

Our client is a renowned name in the chocolate manufacturing industry, has been a market leader for over three decades. Employing over 800 professionals, they specialize in producing high-quality chocolate and cocoa-based including panned items, fillings, chips, and pastes. catering to domestic and international markets.

### Highlights

- **PLC, HMI, and SCADA Programming:** Developed and implemented programming for a 4-concher system, ensuring seamless integration and functionality.
- **Onsite Commissioning:** Successfully carried out onsite commissioning to meet operational requirements and client expectations.
- **Customized Reporting:** Reports were designed and developed to cater to diverse user needs and client-specific requirements.

## Challenges

- **Communication with Multiple Remote I/Os:** Ensuring smooth data exchange between input/output modules located in different areas.
- **Communication with Multiple PLCs:** Establishing robust communication between different PLC models or brands.
- **Energy Meters Communication and Reporting:** Integrating energy meters with PLC for real-time data acquisition.
- **Safety Interlocks:** Designing and implementing safety interlocks to prevent operational hazards.

## Project Success Factors

- ✔ Resolved communication of I/O issues with signal quality and timing coordination.
- ✔ Coordinating data sharing while maintaining system integrity and responsiveness.
- ✔ Developing a reporting framework within SCADA/ IOT system to monitor and analyze energy consumption trends effectively.
- ✔ Configuring alarms and fault detection mechanisms to enhance system safety.

## About Instron Technologies

With operations in India and Canada, Instron Technologies is a leader in Process Skid Plants, Digital Factory Solutions, Test Bench Systems, and Automation Solution Committed to sustainability, our dynamic team develops innovative solutions that not only meet critical customer challenges but also emphasize eco-friendly practices. Serving over 200 clients in more than 10 countries, we demonstrate our dedication to innovation, operational efficiency, and environmental responsibility.

## Contact Us for More Details

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