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BROCHURE

# Plant electrical systems assessment - PESA

## Food and beverage industry



Installation Products Division  
for Food and beverage industry

- Wire and cable management
- Cable protection systems
- Boxes and fittings
- Connectivity and grounding

# Are electrical problems limiting your profits?

In food and beverage processing plants, the risks and costs of electrical system downtime are quite high. Liquid ingress, corrosion, extreme temperatures, humidity, and 24/7 production can all contribute to electrical system failures that cause unscheduled downtime.

## Frequent plant electrical system issues



01 Continuous operations & sustainability.



02 Corrosion & harsh production environment.



03 Liquid ingress protection.



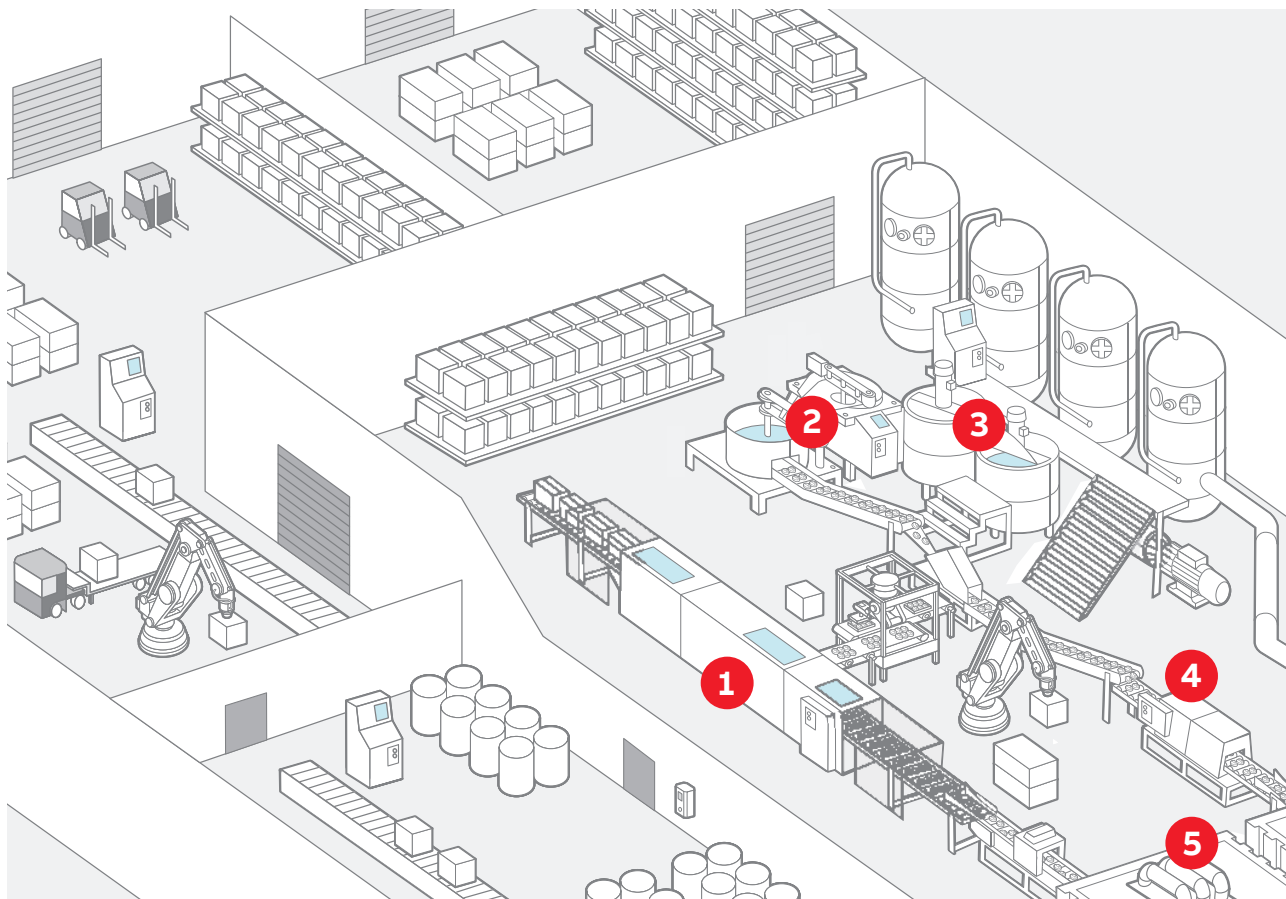
04 Safety & contamination.



05 Extreme temperature protection.



06 Hazardous location protection.



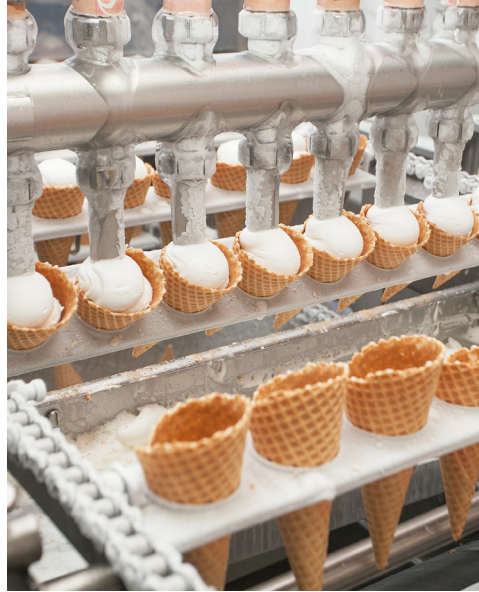
## Take advantage of this valuable assessment from ABB, at no cost to you!

The ABB Plant Electrical System Assessment (PESA) is a no-cost, confidential service that helps food and beverage processors find and address existing and potential electrical issues.

After assessing your facility's electrical system concerns, ABB provides a customized proposal of solutions that can help your plant:

- Increase food, plant and personnel safety
- Cut electrical system changeover/downtime by 40-50%
- Increase overall equipment effectiveness (OEE)
- Extend electrical system service life by up to 300%
- Improve sustainability and revenue





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## Consultation and plant walkthrough

After consulting with your team about plant electrical challenges, ABB Electrical System Assessors will evaluate your facility's electrical system assets. Plant walkthroughs average 2-4 hours per 500,000 sq. ft. The objective is to identify existing and potential threats to your plant's uptime and profitability.

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## Findings and recommendations

Next, ABB prepares a Final Value Proposition (FVP) document that focuses on key application areas and challenges, including food safety and facility sustainability. The FVP matches your plant's challenges with proven ABB food and beverage solutions – your company is under no obligation to implement the recommendations.

**Critical Electrical Codes, Standards & Specification**  
for a Food & Beverage processing facility.



NEMA 1, 12, 3R, 4, 4X



IP69K



## PESA in practise



### F&B corrosion resistance: Invest in your savings

In a prepared frozen food facility where quick-fix meals were being packed, the maintenance team installed, in a money saving effort, aluminum in several areas because it was light weight generating savings on installation labor and material cost. Less than a year later the facility team was pulling it all out to replace it with Ocal® PVC coated conduit systems.



### F&B explosion protection: Flammable dust blow your operation

A plant electrical system assessment at a huge bakery revealed excessive dust build-up underneath equipment. The dust accumulation was so much that the accumulation level was combustible. The danger was magnified by the fact that numerous covers on the electrical system were removed, leaving exposed conductors. To address this challenge, the facility installed ABB's explosive proof rated electrical components.