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**Project: ETAP POWER ENGINEERING SERVICE**

**Customer: CARGILL VIETNAM**

**TURN IT BALANCE**

# Customer Profile

Cargill provides food, agriculture, financial and industrial products and services to the world. Established in October 1995, Cargill Vietnam is one of the largest animal feed distributors in Vietnam. Cargill currently has 11 feed processing factories and a leading staff of over 2000 employees in Vietnam.

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# PROBLEM

1

Power System Data have NOT overall evaluation yet

2

Relay Setting Values are NOT selective co-ordination, between upstream-downstream, bus levels.

3

Arc Flash category of electrical panels is NOT Calculated

4

To load calculation for the future expansion

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# The Solution


## ETAP Power Engineering Service
## Perform Power Engineering Service using ETAP software to perform works with report and recommendation

| |
|---|
| Data collection & verification. |
| System modelling. |
| Load Flow analysis. |
| Short Circuit calculation. |
| Protective Relay co-ordination. |
| Arc Flash analysis with NFPA 70E, IEEE 1584 standard indicates the required PPE category |

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# Customer benefits

**Whole electrical system has evaluated, overall re-calculated and analyzed for power system comprehensively. In addition, the future expansion also take into account.**

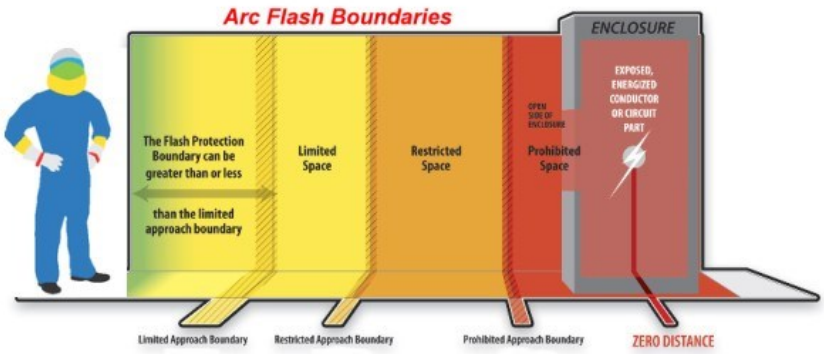
Incident energy and arc flash level are evaluated correctly, reduced risk

Arc Flash values can help to select PPE and optimize the safety system

Equipment duty, operating parameters were well checked, verified and adjusted

All switchboards from MV to LV are labelled and configured arc flash boundary

Protection relay devices were selective co-ordination, and to make sure the operating system correctly





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