

# Grounding Systems

Energy Control performs audits in order to verify and correct the coordination of every existing ground system and subsystem, both indoors and outdoors, relying on our personnel, highly qualified after 10 years of experience in the industry.

The question of having isolated ground systems or not becomes usual, but the reality tells that it depends on each case, in which the proper system must be applied. Nowadays, simple and concise analysis can be made to determine which configuration my Grounding System should have.

Examples: Electric networks, telecommunication systems, telephony, computer centers, data networks, automation, control, video and alarm systems, and any other service can hold several Grounding systems (i.e. more than 6 systems can co-exist in a single site or location).

**The grounds need to be totally integrated, becoming a coordinated ground network, which refers to a Coordinated Grounding System (CGS).**

The installation of ground systems should cover the following objectives:

- a) People's safety
- b) Site facilities protection
- c) Services continuity and stability
- d) The establishment and surveillance of a reference potential
- e) Elimination of electric noises

The issue of deciding which systems to use, has a very simple solution, but if not solved, can cause severe and complex damages. This is why it is so necessary to provide integral solutions regarding Grounding Systems, optimizing its design to be used as dispersion system, electric or electronic reference, protection system, etc. Energy Control performs audits in order to verify and correct the coordination of every existing ground system and subsystem, both indoors and outdoors, relying on our personnel, highly qualified after 10 years of experience in

- Technical assessment
- Project development
- Surveying - Auditing
- Quality control and supervision
- Measurements
- Installation
- Maintenance
- Empowerment courses

