

Clustering/sampling sites for energy audit, Italy



Description of the measure

ENEA, on request of the Ministry of Economic Development prepared a guide on the clustering/sampling for multisite enterprises/group obliged to undergo an energy audit according to the art. 8 of the Energy Efficiency Directive.

The procedure takes into account the total consumption and the consumption of each site. The sites with yearly consumption over 10'000 toe for industry (1'000 toe for other sectors) should be audited. The sites under 100 toe are not considered unless their sum is over 20% of the total consumption. The rest of the sites are divided in 9 bins of amplitude 1'100 toe for industry (100 toe for other sectors). In the upper bin are considered 50% of the sites, decreasing by 5% down to 10% of the lower bin. Up to 100 sites are selected.

If the number of sites is less than 100 and the sites under 100 toe are more than 20% of total energy consumption, the sites under 100 toe are divided in two bins: 51-99 toe (3%) and 1-50 toe (1%).

It is possible to take a site with higher consumption instead of one with lower consumption.

Critical success factors

The procedure was prepared to help enterprises and energy auditors to select the sites to be audited in order to guarantee the proportionality and representativeness of the energy audit. No to create a burden in particular situations, the procedure is not compulsory. It is possible to choose another method, but this should be justified.

To ensure that this procedure and other clarifications (e.g. definition of site, etc.) on energy audit were well understood, ENEA organized and/or participated to a huge number of conferences and working groups.

Innovation

The method gives not only the number of sites, but also their dimension. This was considered an important factor for the representativeness.

Outcomes



CONCERTED ACTION
ENERGY EFFICIENCY
DIRECTIVE

Key achievements

N/A

Lesson learned

N/A



Final comments

Multisite group have a non compulsory guideline, so there are directions but the final decision is up to the auditor and the enterprise.

In this way there is an indication on the number of sites to be audited, but it is possible to make energy audit on the most representative and/or on the ones where there is more improvement potential.

Further information

An English presentation with information on the compulsory energy in Italy (i.e. enterprises in scope, definition of site, virtual site, who can perform an energy audit, clustering, etc.) is available at:
http://www.agenziaefficienzaenergetica.it/per-le-impresediagnosi-energetiche/italian-transposition-of-energy-efficiency-directive-2012-27-eu/at_download/file

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