



## The CERN Uninterruptible Power Systems Policy

Considering the need for CERN to install Uninterruptible Power Systems (UPS) in some instances, but also considering the high maintenance costs of such systems, as well as associated safety risks (in particular fire and electrical risks) and their negative environmental impact (CO<sub>2</sub> emissions and waste), CERN hereby establishes a policy governing the use of Uninterruptible Power Systems (hereafter the “UPS Policy”) on the CERN site.

The UPS Policy is periodically reviewed.

### 1. Objectives

The objectives of the UPS Policy are to:

- minimize the number of UPS units and their associated batteries on the CERN site; and
- minimize their environmental impact.

### 2. Means

In order to achieve the UPS Policy’s objectives, the Organization:

- ensures that alternative solutions are considered;
- defines criteria for the installation or replacement of UPS.

Typically, the installation of a UPS is allowed where there is:

- a demonstrated need to ensure the safety of people on site;
- a demonstrated risk of loss of function(s) leading to unacceptable consequence(s), including consequence(s) induced by the recovery time, on an accelerator, experiment, application, or process;
- a demonstrated risk of damage to equipment leading to significant expenses due to the replacement of the equipment or the loss of operation time for example; and
- a demonstrated risk of unrecoverable loss of data that is essential for the functioning of the Organization;
- establishes and implements procedures to:
  - evaluate requests for the installation or renewal of UPS on the CERN site; and
  - to assess existing UPS; and
- establishes and maintains an inventory of all UPS on the CERN site.

### 3. Implementation

As chief executive of CERN, the Director-General:



- assigns the responsibility and means, including the required authority, for the implementation of the UPS Policy, at all levels of the Organization, to the relevant organic units;
- appoints a UPS committee, responsible for evaluating requests for the installation or renewal of UPS on the CERN site, for assessing existing UPS, for establishing and maintaining a UPS inventory and to support UPS owners and any organic unit considering to install or replace a UPS in the implementation of the UPS Policy during the UPS life cycle; and
- assigns specific tasks to specialised organic units, as necessary.