Contribution ID: **32** Type: **not specified**

From eV to TeV: the Green ILC

Thursday 24 October 2013 09:40 (20 minutes)

Large particle accelerator/collider facilities are probably the most power hungry fundamental research undertakings. It may prove to be a roadblock in the progress of this research at least in the public view. On the other hand, they can be used as a life-size workbench to develop new energy saving and generation technologies and to improve the reliability, maintainability and flexibility of sustainable energies sources.

The ILC project proposed to be hosted in Japan provide a major opportunity to embed a Center for Energy Research involving from design to operation the contribution of a wide variety of energy scientists. From eV to TeV the green ILC could be seen as an energy transformer.

We will overview some of the collider equipment which could be partially or fully powered by alternative energy sources and what would imply to engage in this endeavor.

Presenter: PERRET-GALLIX, Denis (Centre National de la Recherche Scientifique (FR))

Session Classification: Energy Efficiency Examples