TEPCO R&D Center's design concentrated on rationalizing energy usage at an electric utility of facility while maintaining a comfortable indoor working environment for creative activity.

This building uses the cavity of glazing for air circulation to achieve heat control and energy-saving. Furthermore, it has automatic control blinds to adjust daylight as well as electric lighting inside of building. By controlling the angle of the slats automatically, the blind stops direct solar radiation over a certain intensity from penetrating into the room. Also, this system computes the level of daylighting in a room and uses this information to turn on or turn off the lights. If there is no sunlight, the slats are flat or raised, providing a view to outside.

Other related technology:
It also uses heat mirror glass which consists of laminated double glass with a special film membrane inserted between. This glass has a heat insulating ability equal to 400% of ordinary sheet glass.

Year of Completion: 1995
Size: Approx. 46,000 sqm
Type of Project: research center
Web Link: www.tepco.co.jp (Japanese)
Text and Drawing resource: http://courses.arch.hku.hk/IntgBuildTech/case.htm