

## Demonstration project: NCC Finland Head Office



The picture shows one example of the Business Park concept of NCC Finland

### **Summary:**

Site location:	Helsinki, Finland
Type of project:	Office building
Building size:	30.000 m <sup>2</sup> total construction area, room area 20.000 m <sup>2</sup>
Ownership:	NCC Finland during construction and later property investors
Location of PV modules:	PV integrated in façade
Total peak power:	50 kW
PV production:	35 MWh
Start of construction:	March 2002
Start of PV installation:	Summer 2003
Key partners:	NCC Finland (project developer)

### **General information**

The project is the new head office of NCC Finland to be built in Helsinki for approximately 400 employees. The project is a continuation of the four previous Business Park projects of NCC Finland. This concept is based on modern and functional ideas with several internal services for the users, e.g. restaurant, copying services a gym etc.

### **Site information**

The building will be located near the centre of the city close to the major road.

### **The object**

The central location of the office makes the visual appearance of the PV installation very important. The colour of the modules as well as the integration technique chosen must be carefully selected.

### ***Monitoring of PV production***

High electrical load for cooling is foreseen for warm summer periods and the project will evaluate the use of PV for load shaving. Monitoring of both the energy consumption of the building and the energy contribution from the PV system will be carried out.

### ***Timetable***

The planning and design phase will be carried out during January and February 2002 followed by the construction period which will be finished at the end of 2003.

### ***Budget and financing***

According to the preliminary estimate the investment on the equipment and technology would be about 500.000 €. For the expert attention and extra planning we figure we would need about 50.000 €. This will be financed by NCC and the expected EU-subsidy of ~190.000€

### ***Partners***

Not yet assigned.

### ***Contribution to the PV-NORD project***

The project will demonstrate how PV can be incorporated into a high-class office building fulfilling the aesthetic demands. The use of PV for load shaving during warm summer periods will show an important application, which typically is needed even at such high latitudes.