

## **TECHNICAL PROGRESS REPORT FOR THE PERIOD 1.1.2002-30.6.2002 OF YIT-RAKENNUS OY**

Partner Nr 9 YIT-Rakennus Oy is responsible for WP 7. This comprises the realization of a building integrated PV system at YIT's construction site in Ekoviikki. The PV approach is innovative and is based on using PV modules as balcony glazing. The PV system is rated at 24 kW<sub>p</sub>.

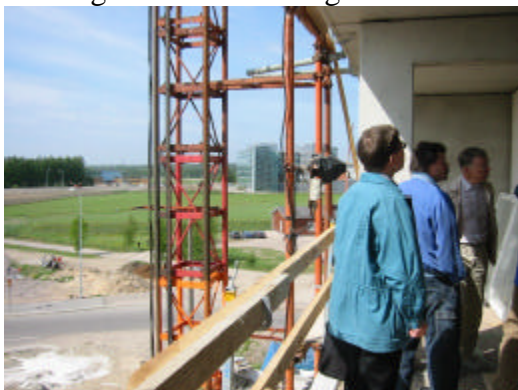
The YIT-PV building in Ekoviikki is progressing as planned and is on schedule. All architectural planning, constructional planning and electrical planning for PV installation have been finished. The construction work of the building started in early 2002 and should be finished in July 2003.

NAPS Systems Ltd. will deliver the PV system. Technical matters concerning the PV-modules and integration into the building/electrical system has been discussed during the winter/spring 2002. All open issues have been solved and the PV is on schedule.

The construction of the building has moved fast and the trunk and the frame of the building has been finished as shown in the photo below. The PV modules will be integrated on the south and west balconies.



More details of the building are shown in the photos below during an internal project meeting on site discussing the PV cabling.



The PV modules to be used have been subject to strict requirements as these form the balcony glazing.

The next six month's work in WP 7 is the following:

- Delivery and installation of first PV balcony modules for testing (June/July 2002, week nr 25-27)
- Delivery of remaining PV modules (August/September 2002, week 34-36)
- Installation of PV modules and electrical connections (November 2002, week 45-47)
- Installation of monitoring and ICT equipment (October/November 2002)
- Initial tests with the PV system (end of 2002, early 2003)

The building will look much like the one below on the adjacent YIT building site except for the balconies which will be made of PV modules

