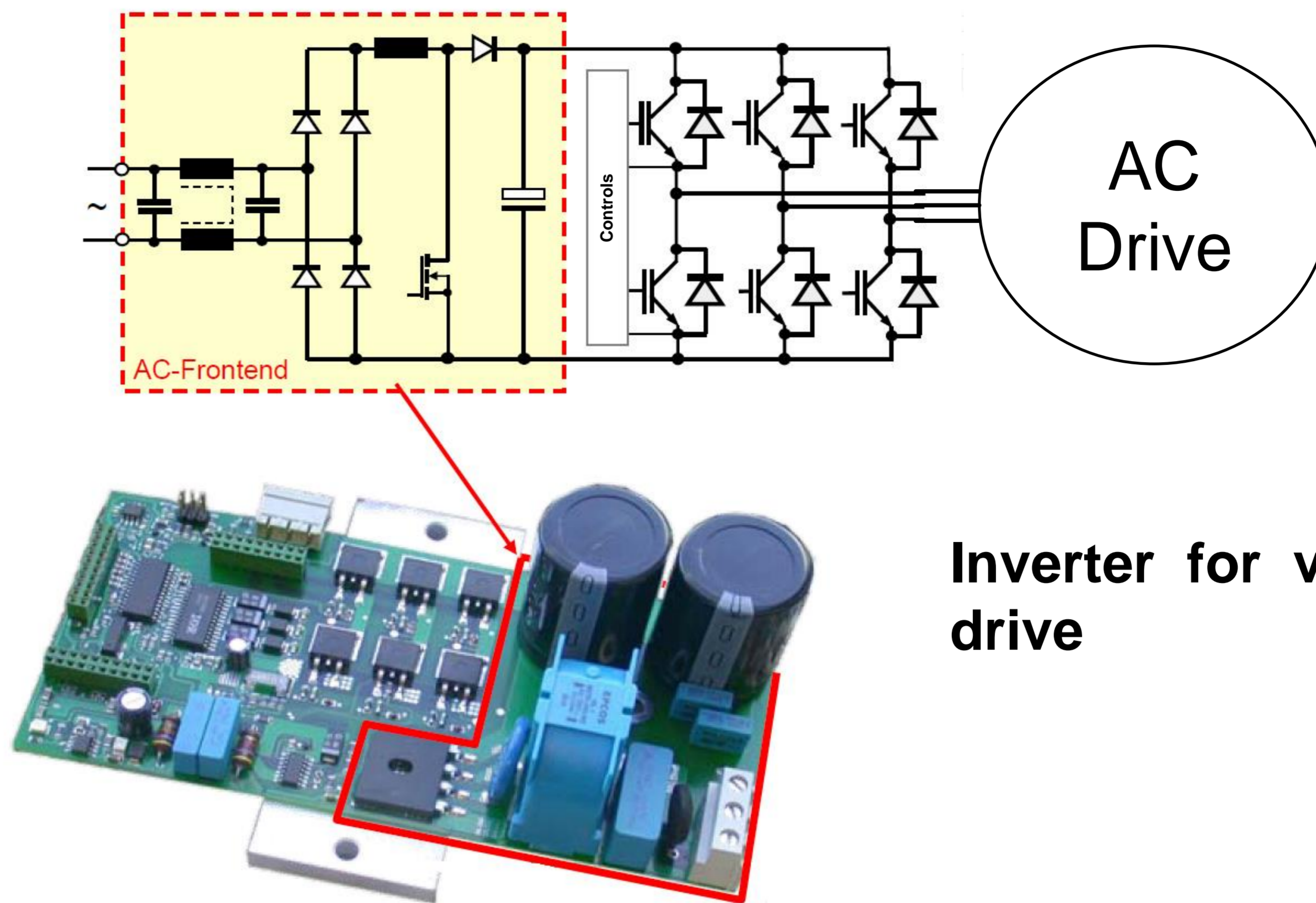


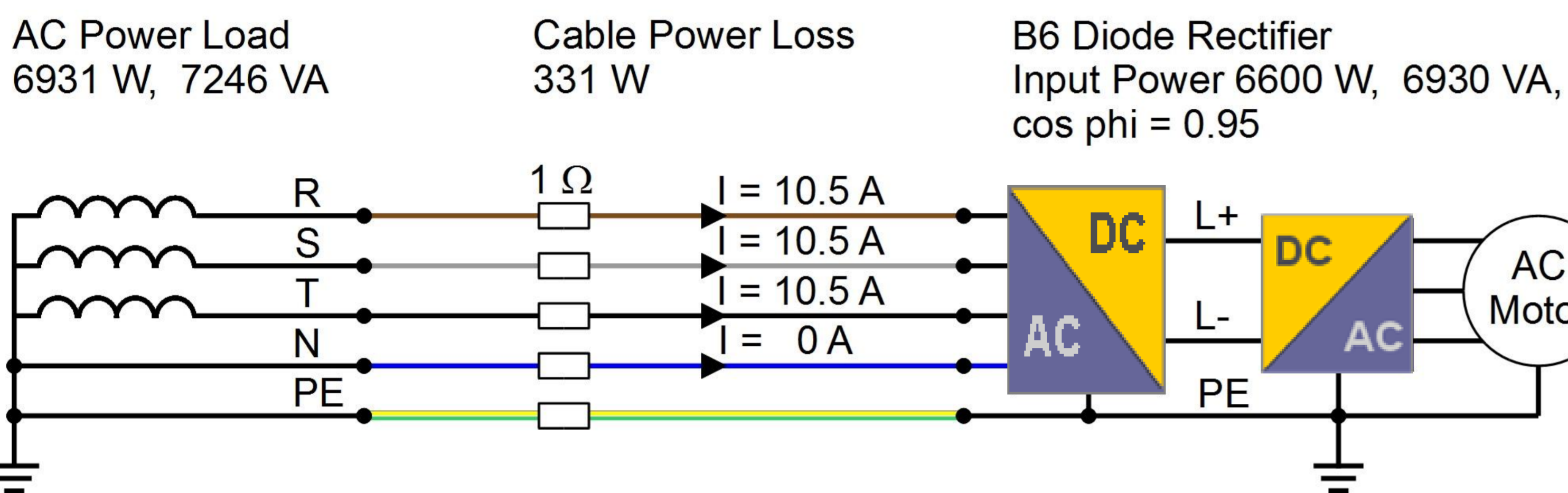
The majority of electronic devices typically use switch mode power supplies (SMPS) for the provision of energy. Inside an SMPS, the AC-frontend accounts for:

- 40..80 % of the power losses
- 50..95 % of the devices' weight
- 50..95 % of the construction volume

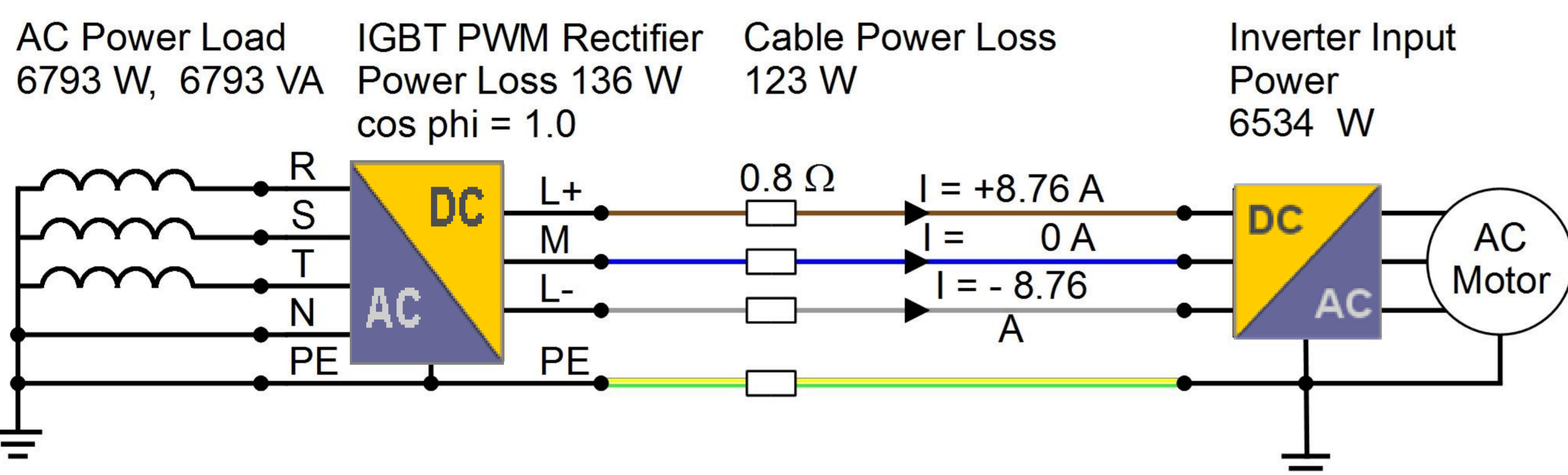


Inverter for variable speed drive

ENIAC Research Project DC Components and Grid (DCC+G)



60 % Less Cable Power Loss With Central Rectifier



Project Goals

- Develop and demonstrate DC power grid technology as a standard for future energy-efficient buildings.
- Show a 5 % reduction of the buildings' energy consumption
- Reduce losses and cost for local generated solar power by 7 %
- Realize two test beds (office building and retail store).

Office Building Test Bed at Fraunhofer Site

