"Adolf Goetzberger Foundation": necessary profile for an award winner 2025/2026

In addition to his award-winning scientific work, Adolf Goetzberger was passionate about translating scientific findings into a usable product for society. Some outstanding examples are:

- The famous "Fluko" (fluorescent collector). Here, the incident sunlight not only the direct radiation, but in particular the diffuse radiation that dominates in our latitudes is directed onto the end faces. This results in a concentration of the irradiation from the ratio of the irradiation area to the four end faces. Solar modules attached to the end faces then produce electricity.
- As early as 1989, he was already thinking about how the area occupied by the PV modules could be put to additional use, particularly in future large-scale ground-mounted systems.
 The idea was agri-PV, where agriculture could also be practiced under the modules the dual use. This idea was way ahead of its time, as nobody could imagine open spaces on a terawatt scale back then. Today, this market segment is becoming increasingly important.
- For the realization of PV modules that can be integrated into vertical noise barriers along
 freeways and train lines in a north-south direction, a project was set up with the previously
 scientific description of bifacial solar cells (e.g. by Prof. Luque) by Adolf Goetzberger together
 with TNC in Switzerland with bifacial solar modules from ASE (later RWE GmbH) and
 demonstrated how useful this application is. Interestingly, this type of vertical north-south
 mounting is now also being used in the agri-PV sector.
- The use of solar energy to power buildings was important to him the "Rappenecker Hof" showpiece is a good example of this. He implemented systemic, holistic thinking and the concepts to be developed from it as early as 1990 with the then revolutionary energy self-sufficient solar house, in which many new technologies were tested for the first time and brought together in such a way that no grid connection or heat supply was necessary.
- He was also interested in developing technology to reduce energy consumption. The
 development of transparent thermal insulation which was used as a demonstrator in his
 private home, is a good example for this.