

SOLAR GLARE ASSESSMENT

Analysis of the Solar Glare potential of solar power plants and other glass surfaces.



OUR SERVICES

- Analysis of the Solar Glare Potential
- Assessment report
- Support in the permitting process



Zehndorfer
Engineering Consulting



APPLICATIONS

- ⚙ Solar Power Plants
- ⚙ Glass- and metal surfaces
- ⚙ Shining roof tiles and roof structures

ADVANTAGES

- ⚙ Risk reduction for investor and contractor
- ⚙ Assurance for authorities
- ⚙ Conformity with norms and regulations
- ⚙ Reduction of re-planning costs
- ⚙ Prevention of late changes
- ⚙ Economical Glare Reduction

REFLECTIONS

Surfaces like glass- and metal-facades as well as solar power plants have the potential to reflect light towards persons, who are working or steering vehicles. Changes of construction plans after construction start can be expensive - a solar glare assessment helps to avoid these costs.

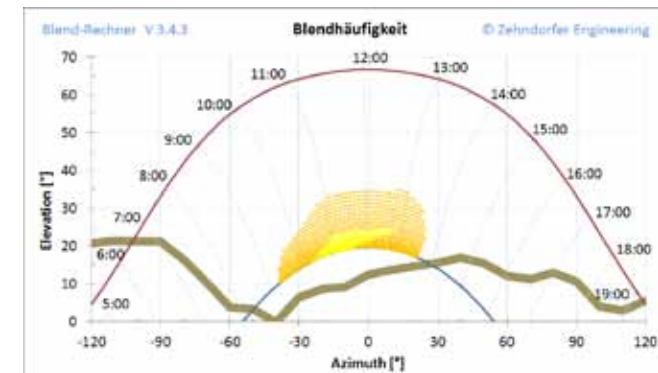
ASSESSMENT REPORT

The Solar Glare Assessment helps to correctly rank the dangers coming from a planned installation. The glare calculation allows the quantification of reflection parameters and thus helps to defuse dangers as well as soothe unsubstantiated fears of glaring in the permitting process.

WHY ARE WE LEADING IN GLARE ASSESSMENT?

Our proprietary software allows the complete simulation and optimization of your construction project.

- Detailed and reliable calculation
- Conformity with norms and regulations
- Support in the permitting process



DETAILED CALCULATION

- Calculation of glare-time, -duration and -angles
- Travel time calculation
- 3D diagrams
- Minute resolution

GLARE-REDUCING MEASURES

- Variations of plant reconstruction
- Optimization of shades
- Proof of effectivity of these measures



REFERENCE PROJECTS

Disability glare study in Langenlebarn / Austria

The glare calculation showed a reasonably low glare by the planned photovoltaic roof installation.

Dazzling of the railroad traffic in Seesen / Germany

At the existing PV-plant the glare disguised the light signal of the adjacent Deutsche Bahn railroad. A glaring survey was executed, which helped to find and implement the most cost-efficient and effective glare-reducing provisions.

Neighbors' complaints in Carinthia / Austria

The neighbors of a PV-plant were exposed to unacceptable glaring. The assessment reports identified cost-efficient measures for the reconstruction of the plant.

Dazzling effect on highways and state roads

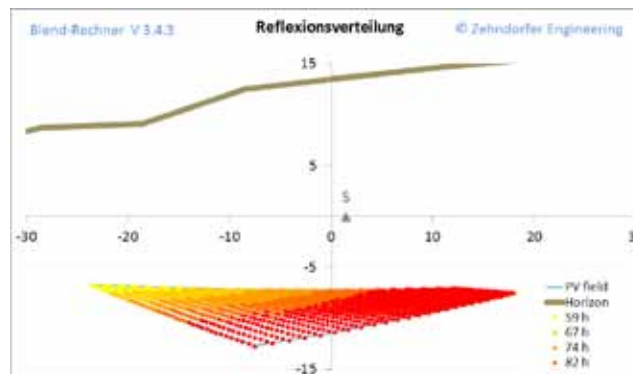
The dazzling effect on truck and car drivers was determined by the calculation of glare duration, travel time and viewing angle. Consequently concerns could be cleared in many cases.

CONSULTATION

- ⚙ *Don't leave the dazzling effect of your construction project to chance!*
- ⚙ *Save construction costs by professional planning of reflections of your installation!*

I will be happy to assist you!

Jakob Zehndorfer



Jakob Zehndorfer is certified advisor to the Austrian court of law with many years of experience in electrical engineering and photovoltaics.



Zehndorfer Engineering has submitted several solar glare assessments in Austria and Germany. These have helped to mitigate and avoid glaring on roads and railroads and for air traffic.

Business- Zehndorfer Engineering

Electrical Engineering

- Technical Due Diligence
- Electrical Verification
- Training



Photovoltaics

- Detailed planning, project submission
- Expert Survey
- Site supervision, Commissioning



Business Consulting

- Cost Calculation
- Project management
- Contracting



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