

Solar energy potential

Reducing CO2 emissions

Do you want to know how much renewable solar energy can be generated in your community and how much CO2 emissions can be saved?

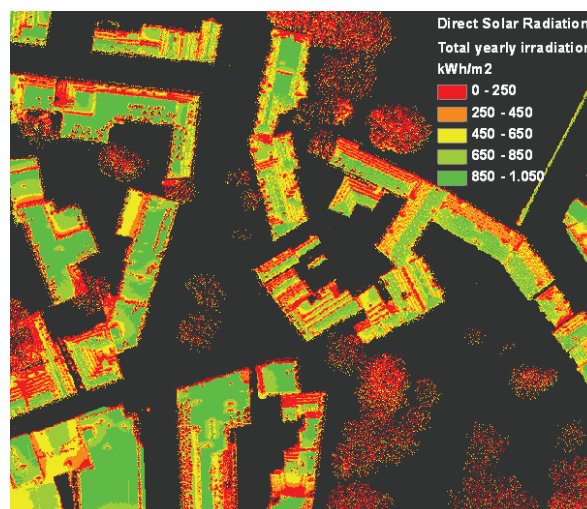
Would you encourage people to invest in renewable energy?

Our solar energy potential analysis gives you the answers. The basis for this analysis is formed by high precision laser data (eg. AHN-2 data), showing a detailed and calculated 3D model of your area. Specially developed algorithms show each building's sun exposure, slope, shadow effects and the possible amount of surface area to produce solar energy, which are then calculated. It also analyses what this reduction in CO2 emissions may mean, what the impact may be. Using a GIS database it can estimate, request and present the information locally or for large areas.

Homeowners, municipalities, corporations, energy companies and investors will benefit with the results via a costs Vs income analysis for investments in solar panels.

Research in Germany has shown that over 20% of the roofs are suitable for generating solar energy. This would cover most of the power of all private households. Investments in solar energy in Germany expanded enormously in recent times; many cities now have a "Solar register".

For the Netherlands, the possibilities are similar. TerraImaging may thus offer municipalities a tool for sustainable solar energy to stimulate and contribute to reducing CO2 emissions. Analyses can be custom developed, eg. you may consider: an overview of the roofs in different classes of suitability, generating electricity in kWh / m² / a or the CO2 emissions that can be saved.



The total solar irradiance is determined for each laser point from the degree of shadow and the direct difference radiation.



Example for presentation to citizens via a web environment (eg. Google Maps). This analysis may, according to customer requirements contain more detail, eg. the total number of solar panels possible; the CO2 reduction possible; the estimated payback time.



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