

Assignment for Module 5.2: Renewable energy & biomass

1. Assess if your factory has a suitable location for a solar PV project.

- Does your factory own the building or have a long-term lease (10+ years)?
- Do you have space available on your roof for solar panels and/or sufficient land for a ground-mounted system?
- Is the roof structurally sound and will it be in place for the duration of the economic life of the solar PV system (typically, 20–25 years)?
- Are there no trees, walls, buildings or other structures that shade the area where the solar panels would be located?

If you answer YES to all these questions, your factory is well positioned to consider solar. If you answered NO to some of these questions, don't worry! It is still worth discussing your options with a trusted adviser.

2. Assess your business priorities to identify the ideal financing approach for your system.

- Does your company allow the use of operational budgets to lease equipment? Or does your company's budget allow for equipment to be purchased with capital budgets?
- If your company is interested in a solar lease, would it be able to sign at least a 10-year contract?
- Would your solar PV system qualify for incentives, such as net metering and tax breaks?

3. Now, let's evaluate the potential annual output of a solar PV system in your factory by checking the following parameters:

- available rooftop/near site area (m²)
- solar irradiation (global tilted irradiation at optimum angle in kWh/m²/year) by clicking your location in this map
- calculate the expected solar system output (kWh/year) with the following formula: available area x solar irradiation

4. Let's list the three to four potential solar system installation providers and their contact details within your city/region/area.

5. Reach out to providers and start your journey to emission reductions and cost savings with solar PV