



Instructions for first time use

This Excel workbook tool provides financial analysis for grid-connected renewable energy projects as per *Central Electricity Regulatory Commission (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2012* updated according to suo motu orders for subsequent years upto *Central Electricity Regulatory Commission (Terms and Conditions for Tariff determination from Renewable Energy Sources) (First Amendment) Regulations, 2014* . Off-grid financials are Prayas estimates.

Steps to use the tool:

1. **Enable macros in Excel after opening the spreadsheet.** Please refer to the User Guide for details on enabling macros.
2. Go to the "Inputs&Summary" sheet and select the plant type (technology) and state in which the project is situated. **For off-grid projects, location and density of the village also need to be specified.**
3. Inputs to the tool with respect to physical and financial aspects of the project are already filled in and can be seen in a table on the left hand side of the sheet titled "Inputs&Summary". These are either default values provided by Prayas or whatever inputs were last used.
4. Inputs are categorized into different sections – “Power Generation”, “Loan Details” and so on. **Inputs within each category can be viewed by clicking on the plus (+) to the left of the category title.** For example, parameters specific to village size and distance of village from Grid can be viewed by expanding the “Off Grid Parameters” and “Grid Extension Parameters” sections.
5. **The input cells with text in blue colour are those that can be modified.** Rest of the workbook is protected to prevent inadvertent changes.
6. The summary results from the tool are seen on the top right hand side of the "Inputs&Summary" sheet in a table titled "Output". Detailed calculations can be viewed in subsequent sheets.
7. The inputs can be saved for future runs using the "Save Inputs" button. When this button is pressed, the current inputs are saved by the tool against the technology and state. **For a combination of technology and state, the same inputs will be filled in by default until they are changed again and the "Save Inputs" button is clicked.**
8. The outputs along with the inputs can be saved for future reference using the "Save Scenario" button. The saved scenarios can be referred to in the "Scenarios" sheet. Up to 10 scenarios can be saved. When the "Save Scenario" button is clicked the user is asked for a scenario index.
9. **Individual sheets comprising different parts of the financials can be browsed to get an idea of the intermediate calculations.** These sheets are titled in a self explanatory manner.
10. There are also a couple of sheets that plot tariff variation during the life of the project, the components of the tariff and the levelized tariff.
11. **Sensitivity analysis can also be performed for some of the inputs. This is done by clicking on the "Sensitivity Graph" button and the results appear in the "Sensitivity Chart" sheet. .**

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DISCLAIMER

ool is developed by Prayas Energy Group, Pune, who can be reached at
/@prayaspune.org.

tariff tool is meant for those that would like to study the financial aspects of setting
renewable energy plant. The tool has been developed based on *Central Electricity
Regulatory Commission (Terms and Conditions for Tariff determination from Renewable
Energy Sources) (First Amendment) Regulations, 2014* which are intended to provide
a framework for determining feed-in tariff for grid-connected renewable energy technologies.

Every effort has been made to make the tool user friendly, error-free and accurate,
but it is possible that it can be improved further. We are open to suggestions and constructive
feedback on improving the tool.

The tariff tool is provided on an 'as-is where-is' basis and as a guide. Appropriate
professional help should be sought before any commercial decisions are made. PRAYAS
has no liability from the use of the results from this tool.

[Go to Tool](#)

Technologies Supported:

Solar PV
Solar Thermal
Wind
Small Hydro
Biogas
Bagasse
Biomass Gasifier
Biomass Rankine Cycle
Off-grid Solar PV
Off-grid Small Hydro
Off-grid Biomass Gasifier