



SafeGrid™ Earthing Tutorial

PDF Underlay Tool

16/01/2020

Table of contents

Introduction.....	1
1. Calculate the voltage plots.....	1
2. Load a PDF drawing file	1
3. Scale the plot.....	2
4. Move the plot into position	2
5. Move and scale the colour bar.....	3
6. Create a report	3

Introduction

The PDF underlay tool is an addon to the Display Results module of SafeGrid. This tool allows you to overlay the surface, touch or step voltage plots on your site drawings.

The process is simple. Import your PDF or image file as a background. Resize the plots to match the scale of the background then move the plots to align with the objects on your drawing.

The following steps will show you how.

1. Calculate the voltage plots

- ① Click **Calculate** in **Display Results** to calculate the surface, step, touch voltage plots.
- ② Click **PDF underlay tool** to open the tool.

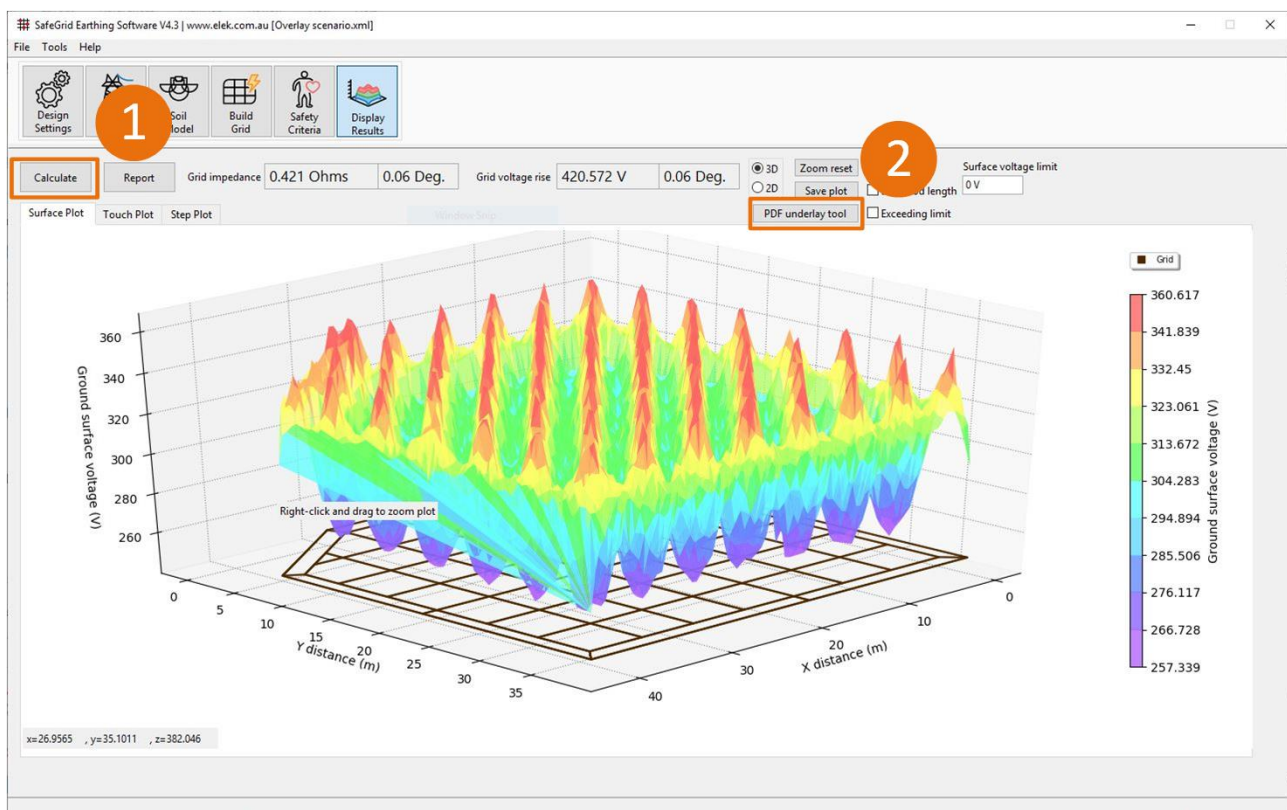


Figure 1 – Calculate the voltage plots

2. Load a PDF drawing file

Import a background drawing or image by dragging and dropping the file into the tool or selecting it from disk. For multipage PDF documents you can select the correct page.

You can rotate the background drawing using the **Rotate** button.

3. Scale the plot

The plot needs to be scaled to match the dimensions of the background drawing.

- ① Select the Plot from the **Selection** dropdown.
- ② Click the **Resize** tool button.
- ③ Click the **Measure scale on background** button and use the mouse to draw a line on the background drawing then specify its corresponding length same as it is set in the original drawing to automatically scale the plot.

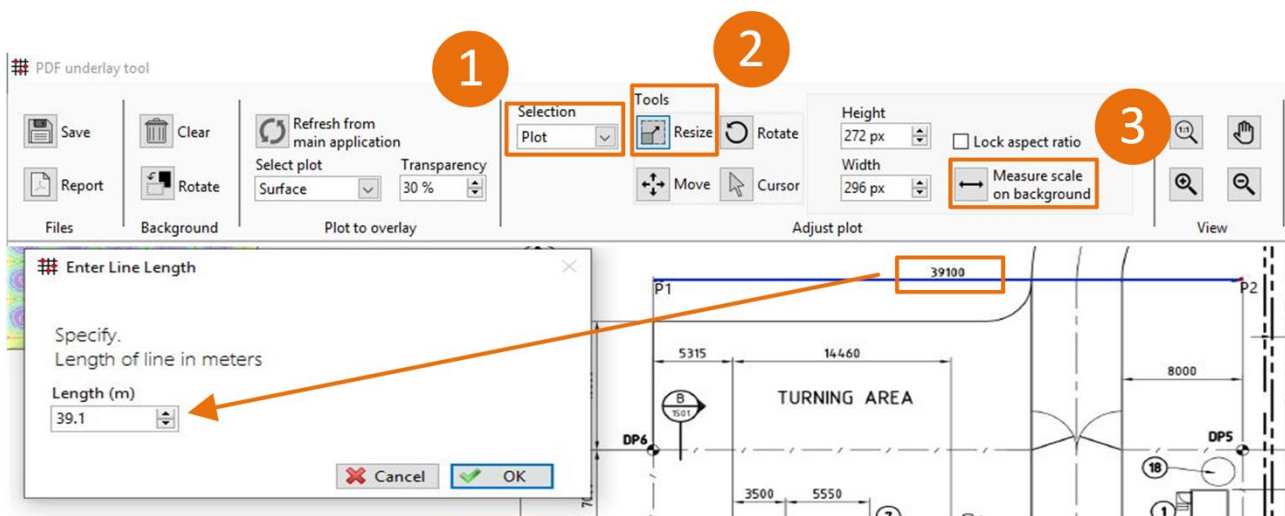


Figure 2 – Scale the plot

4. Move the plot into position

- ① Move the plot to its position by pressing the **Move** button and using the mouse.
- ② Use the **Rotate** tool button and the mouse to rotate the plot into position as required.

Use the mouse scroll wheel to zoom and the other View controls for easy viewing.

Change the plot using the **Select plot** under Plot to overlay on the control bar.

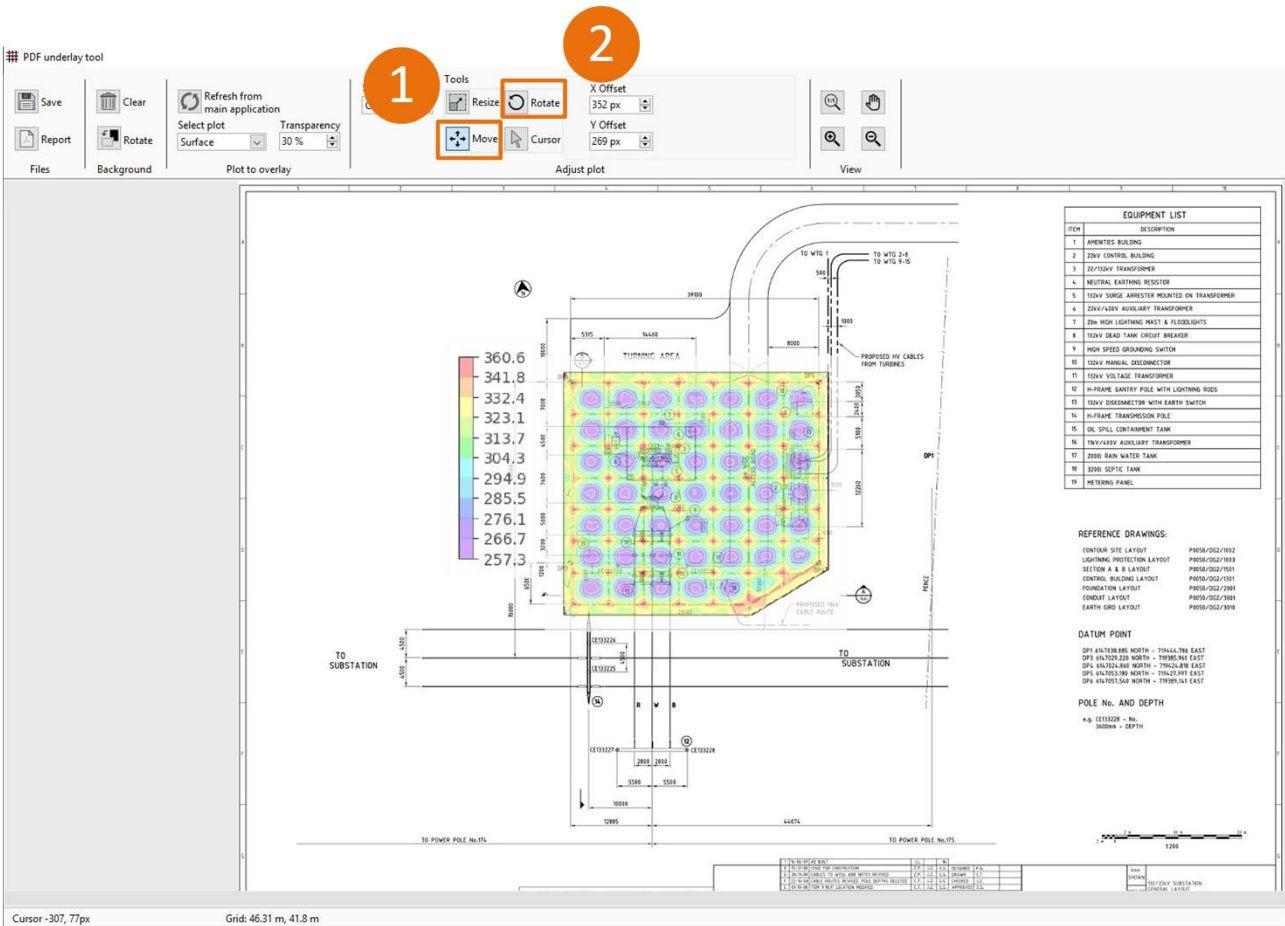


Figure 3 – Move the plot into position

5. Move and scale the colour bar



Figure 4 – Move and scale the colour bar

- ① Select the Colour Bar from the **Selection** dropdown.
- ② Move the Colour Bar into position by pressing the **Move** button and using the mouse.
- ③ Click the **Resize** tool button and scale the Colour Bar by adjusting the **Height** or **Width** values.

6. Create a report

Click **Report** to create a new PDF of the combined background and the plot.

Alternatively, click **Save** to store as an image file.