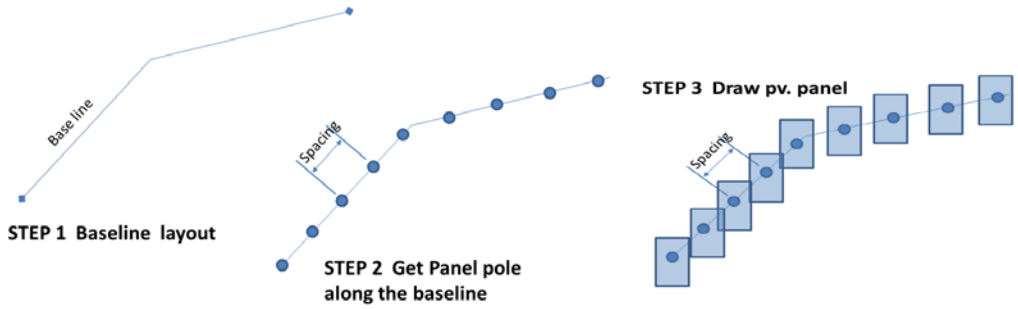
System layout design

In case the user doesn't have pole data (shapefile), this tool was developed to create a pole data layer. PvDesktop prepare two methods for create pole lactions data. Default method base on alignment assignment and optional is area assignment.

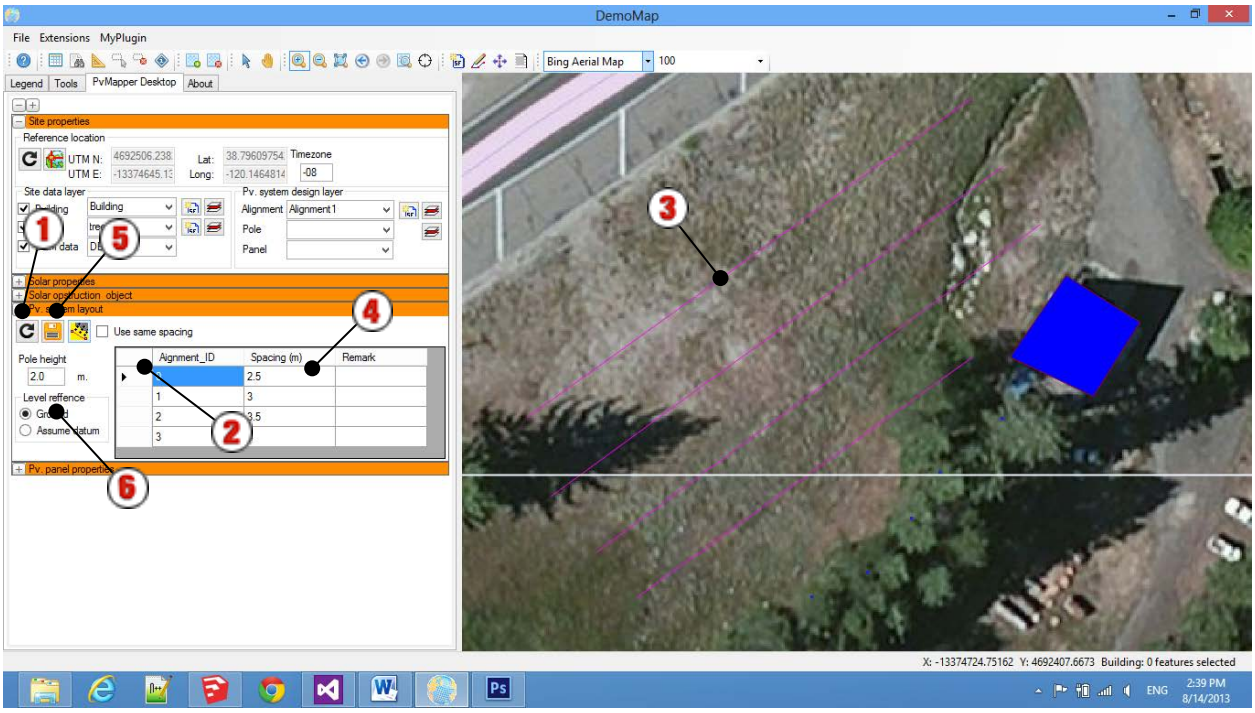
1 System alignment layout

PvDesktop use line shapefiles and pole spacing to create the pole location shape file (see the Figure below). If the user already has pole data, the user can skip this step.

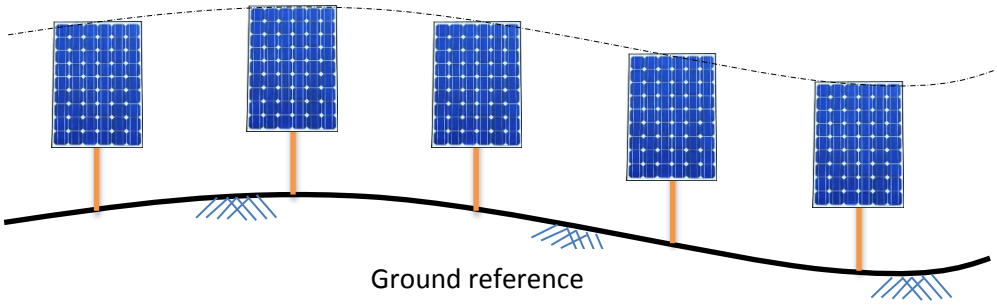


To create a pole location layer the user can do the following:

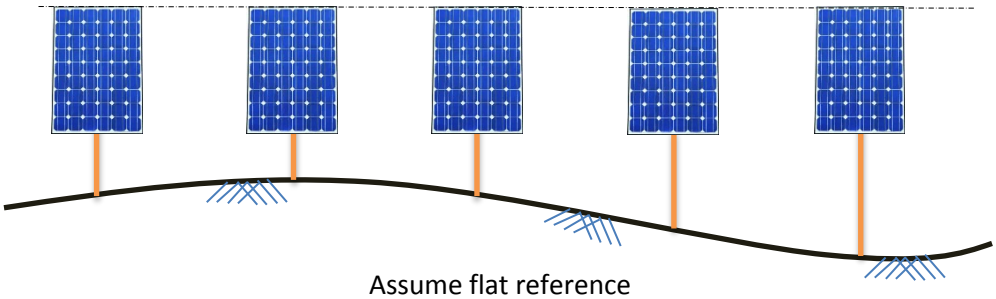
1. Click on the photovoltaic system layout section
2. Select a row
3. Display the selected alignment
4. Assign a spacing value to the row
5. Click the button to save data



6. Assign pole height and set the level reference (Ground reference or assume flat, see the Figure below)



Ground reference

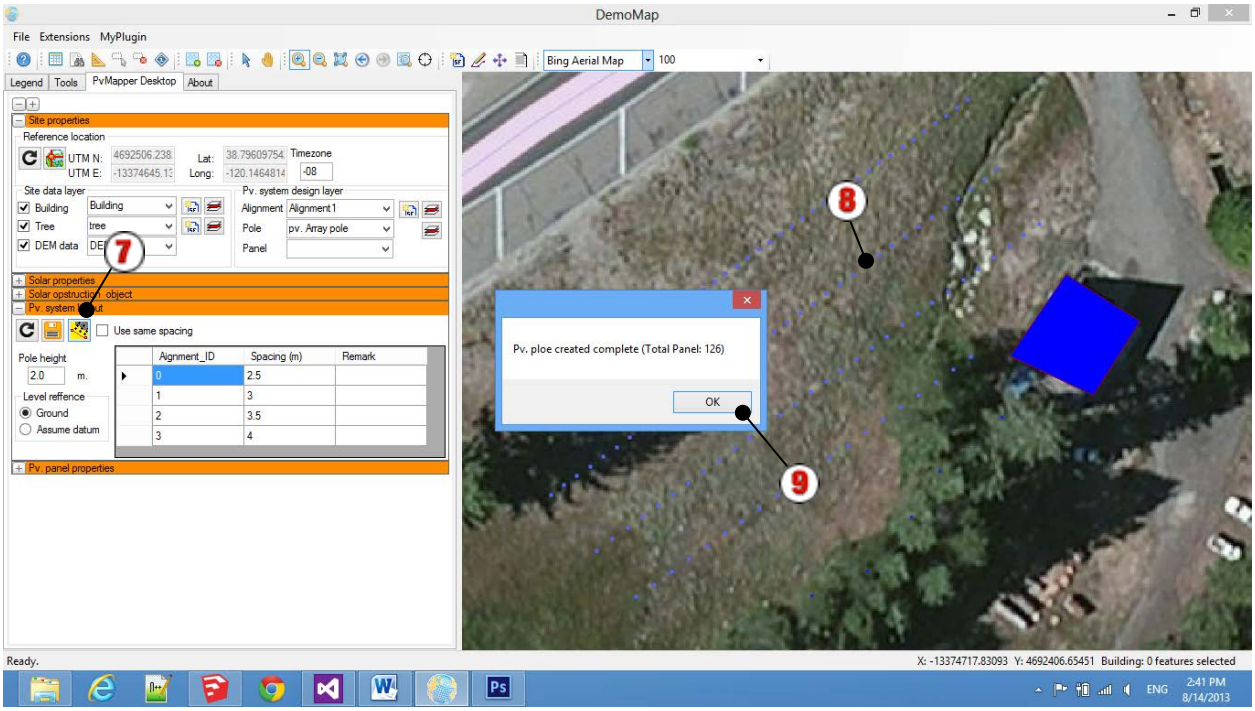


Assume flat reference

Note

In order to use ground reference the user must assign a DEM data layer (in the site data tab) first.

7. Click the create pole button to create the pole data layer
8. Pole data will be created by PvDesktop
9. PvDesktop will display the number of created poles.



TIP

The user can adjust pole location by doing the following:

1. Click to select alignment the as current layer
2. Click to move poles
3. Or click to add new poles

2 System area layout

To create a pole location layer the user can do the following:

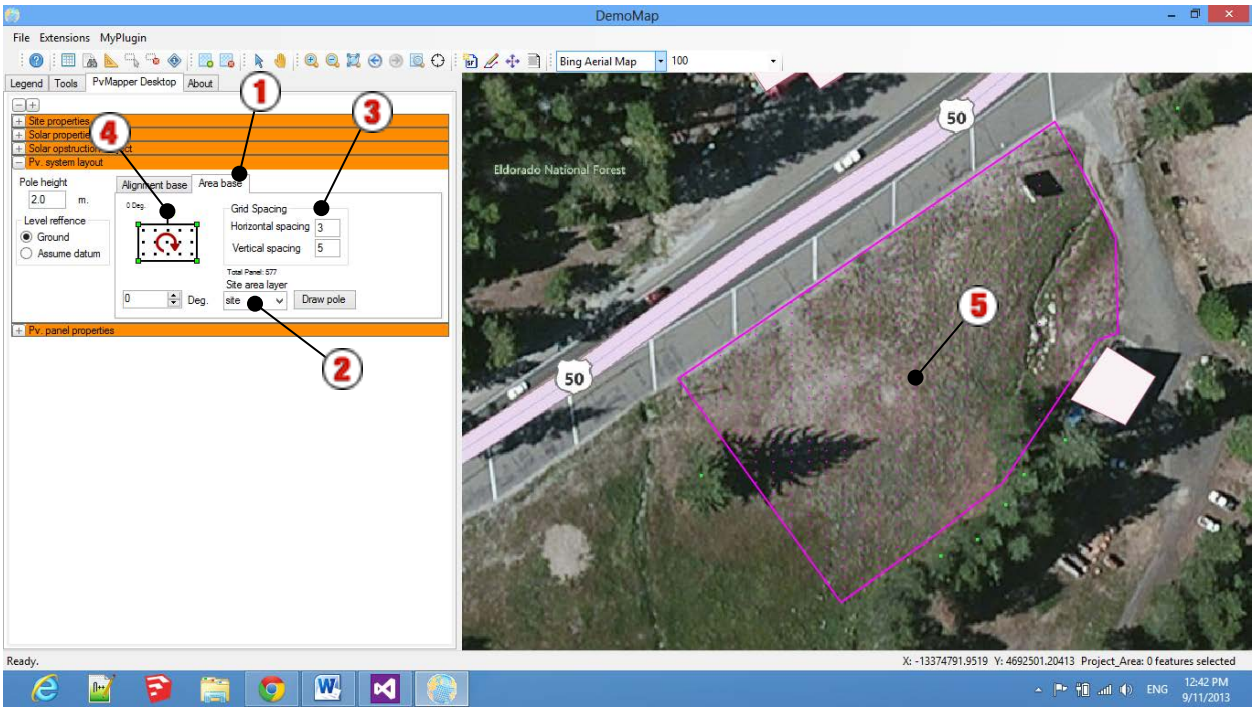
1: Click at area base tab

2: Select site layer (Polygon)

3: Assign grid spacing data

4: Rotate grid

5: PvDesktop show pole location in polygon area



6: Click button to create pole shapfile