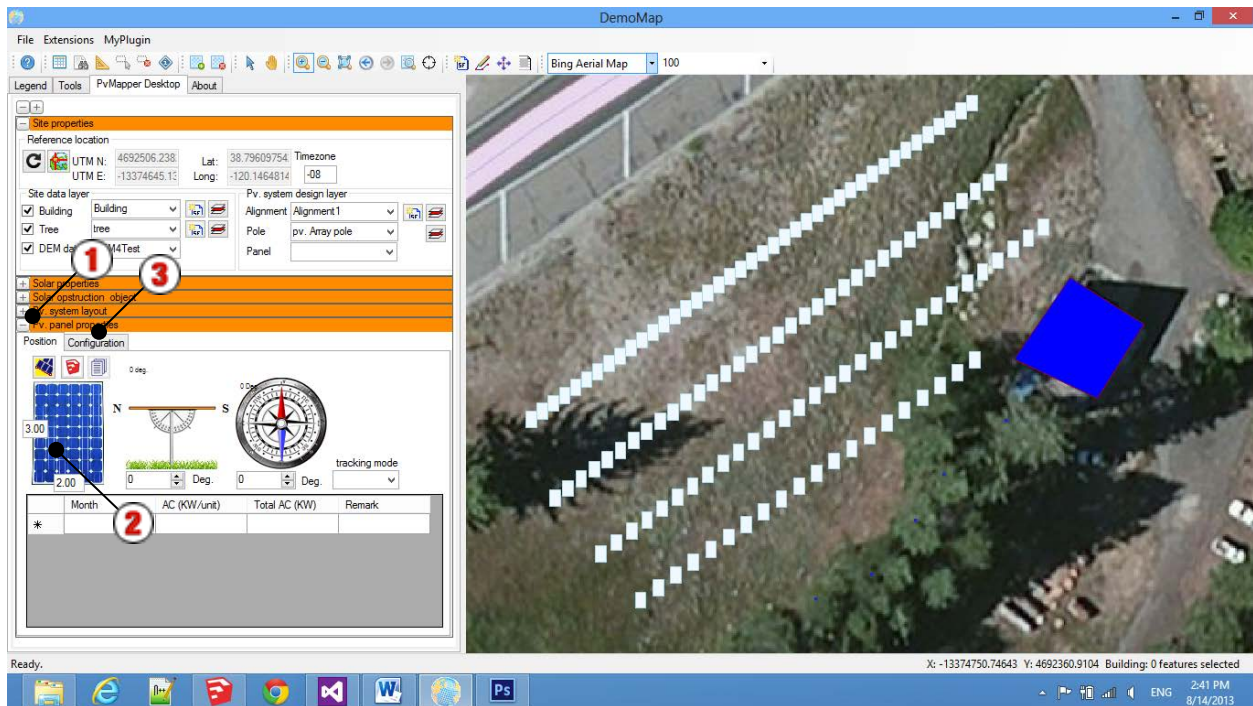# Energy production

To calculate energy production PvDesktop use Sam SDK. The SAM Simulation Core (SSC) software development kit (SDK) is a collection of developer tools for creating renewable energy system models using the SSC library. SAM is a desktop application that provides a user-friendly front end for the SSC library. The SDK allows user to create your own applications using the SSC library.
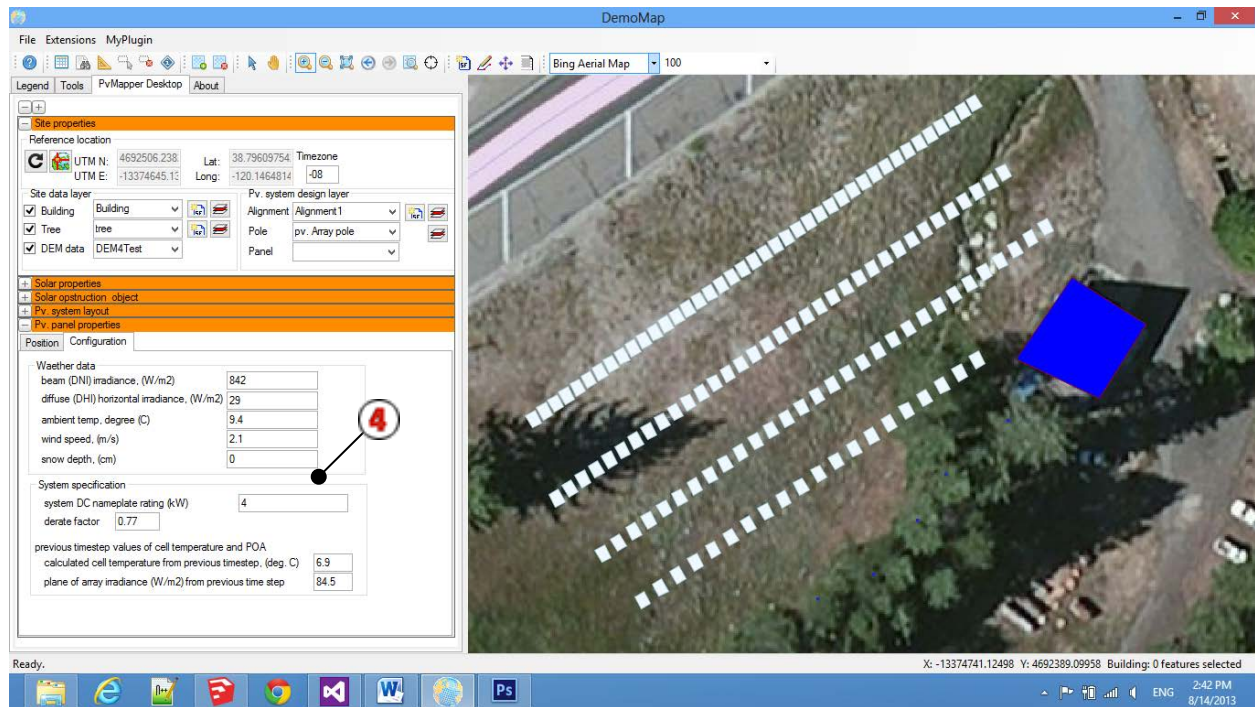
Note

Download link: *https://sam.nrel.gov/content/sam-simulation-core-sdk*

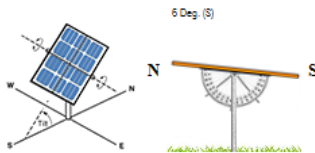The following shows how to use PvDesktop to calculate energy production.
1. Click the Pv. Panel properties section
2. Set the photovoltaic panel size
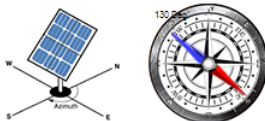3. Click the configuration tab to edit calculation parameters

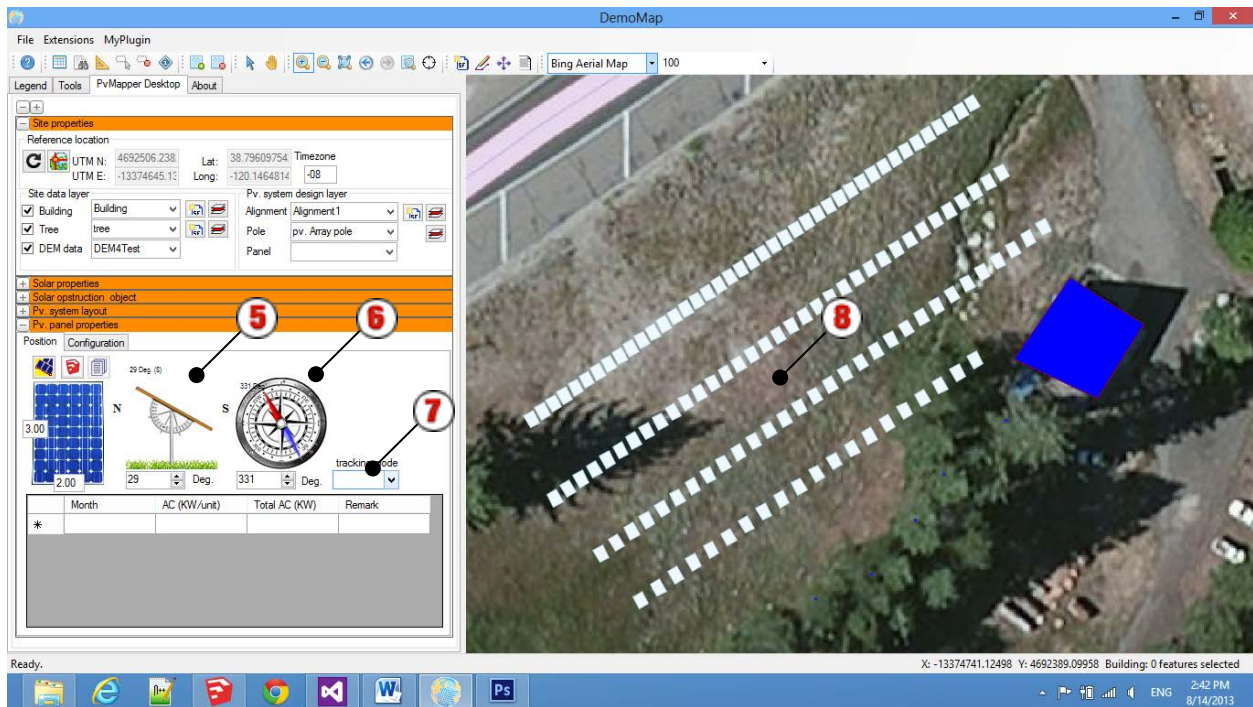4. Edit calculation parameters

5. Adjust panel tile angle

6. Adjust azimuth angle

7. Select tracking system
8. The map will display panels with the assigned parameters

9. Click to calculate energy production
10. Energy production will be shown in the table