**USPVDB Dashboard Project**

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| **Prospective Tool Name** | **Solution or Problem to solve** | **USPVDB file field used** | **Dashboard Input** | **Dashboard Output** |
| Panel-to-Capacity Conversion Tool | Converts the number of solar panels to the total capacity in megawatts. | p\_cap\_ac & p\_cap\_dc,  p\_area | Number of solar Panels | Total Capacity in M |
| Capacity in MW | Total number of solar panels |
| Operational Year Analysis Tool | Visualize the distribution of solar facilities based on their year of operation. | p\_img\_date | None | Histogram or timeline showing the number of facilities started in each year. |
| Technology and Efficiency Analysis | Analyze which technologies are most prevalent and which are performing best. This could inform recommendations for technology adoption in future projects.  A visualization (e.g., pie chart, bar graph) showing the prevalence of different solar panel technologies across the facilities.  This is perhaps the one we can incorporate the technology = the raw material calculations; glass, aluminum, copper, etc., there may be multiple tabs for this one ; one for each material isolated and defined Carly can provide these calculations and figures when we arrive to that part. | p\_tech\_sec, | Technology distribution by materials. | |