



Salisbury City Solar Bridge | Salisbury, SA

Solar energy harvesting and storage system with under bridge lighting

BACKGROUND

Green Frog Systems was approached by the City of Salisbury Council to light up a very dark, flood prone public underpass using only solar power. It was required that the installation:

- Was totally off-grid,
- Would provide adequate lighting levels to ensure public safety,
- Had fixtures that were vandal resistant and flood proof,
- Was a low voltage system (would not require an electrician to install)

OUR SOLUTION

Green Frog Systes were able to re-imagining the capabilities of the flagship GFS-200 Solar Street Light unit into a pole-top solar harvesting and energy storage system. This meant that the system could feed solar power from the 600W solar panels on each solar storage system on either side of the bridge into the two quad-battery energy storage systems. The lighting fixtures used were both flood and vandal resistant, using specifically designed DEFENDER-26 LED tubes on cable feeds.



RESULTS

The City of Salisbury were so impressed with the outcome that they are looking to implement this type of system in numerous other locations around the district. The system keeps overall energy consumption down without compromising on public safety, and ensures that the overall illumination of underpasses, bridges and tunnels is not only reliable, even during power outages, but is also completely sustainable.