



LOUDOUN COUNTY YOUTH SHELTER EXPANSION

In the fall of 2011, construction was completed on an energy-efficient addition to the Loudoun County Youth Shelter. This building is LEED Gold-rated and includes a 27kW photovoltaic panel system. A photovoltaic panel system was also added to the existing Youth Shelter building. The new facility provides educational opportunities to the residents, teaching them about sustainability and energy conservation.

Environmental Impact

- The photovoltaic panel system is expected to provide 12.5% of the new building's electric needs and approximately 10% of the original building's electric needs.
- At 21,400 KWh produced per year, the Loudoun County Youth Shelter's photovoltaic panel system reduces carbon emissions by 28,676 lbs. annually.
 - This reduction in CO₂ is equivalent to taking 2 cars off of the road annually or planting 4 acres of trees.

Economic Impact

- Created 4 jobs for the duration of the project.
- The photovoltaic panel system offers an annual electricity cost-savings of approximately \$1,900.
- The County will also receive approximately \$1,000 annually by selling Renewable Energy Credits.

LOUDOUN COUNTY ENERGY EFFICIENCY AND CONSERVATION BLOCK GRANT (EECBG)

Najib Salehi
Energy Manager
Phone: 703-777-0187
Email: najib.salehi@loudoun.gov

Check Us Out:



User Name: Green Loudoun

