

# Community Service Project

## Solar-Powered Lighting

The Taylor High School BLADE club will bring solar-powered lighting to the picnic table pavilion in Bull Branch Park in Taylor.

The students are excited at the opportunity to provide something that the public can enjoy.

The project will be student-designed and built and paid for by donations from local businesses.

~ Picnic Table Pavilion  
in Bull Branch Park,  
Taylor ~



Project Cost:  
\$2,800

Funding:  
100%  
donations

Completion:  
Nov. 2014

Will provide  
~7,000  
lumens at  
night.





# About



Beginners Learning Alternative Designs for Energy



**BLADE** is an after-school club at Taylor High School. The club teaches students concepts in renewable engineering through fun, hands-on projects.

Previous projects include:

1. **BLADE VAN**, a mobile renewable power station,
2. **Movies in the Park** powered by renewable energy, and
3. Winning grants to have a **renewable system** installed at the high school.



# Project Budget...

Equipment Needed	Cost
Solar Panels (2x215 watt)	\$500
Premium Batteries (2x12v)	\$400
Lights (3x3600 lumen)	\$1100
Security Light (2x800 lumen)	\$150
Charging Regulator	\$250
Timers, Controllers	\$180
Mounting Hardware	\$120
Electrical Equipment	\$200
Wire	\$100
Plaque / Signs	\$100
<b>Total</b>	<b>\$3,100</b>

## Donor Categories

Daybreak (\$10-\$25)

Sunrise (\$25-\$50)

Summer (\$50-200)

Solstice (\$200+)

Donors	\$ Value
John Nistler PSIDA – Solar Panels	\$450
Interstate Batteries – Batteries	\$400
Employees of ERCOT	\$ 1,700
<b>Total:</b>	<b>\$ 2,550</b>

*Amount still needed = \$ 550*

\*\*A plaque will be put on display at the pavilion and will have a list of major donors that helped make this project possible.