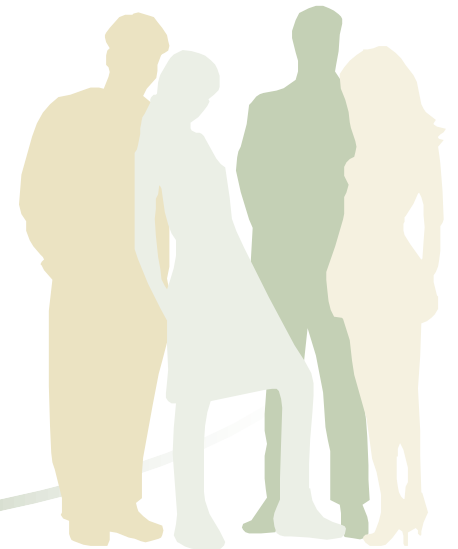




Helping Hands

“Changing the world one panel at a time...”





Overview

1. Video Intro
2. Company Profiles
3. Target market
4. Goals/Objectives
5. Energy Demand
6. Our Design
7. The Future
8. Financials
9. Tips

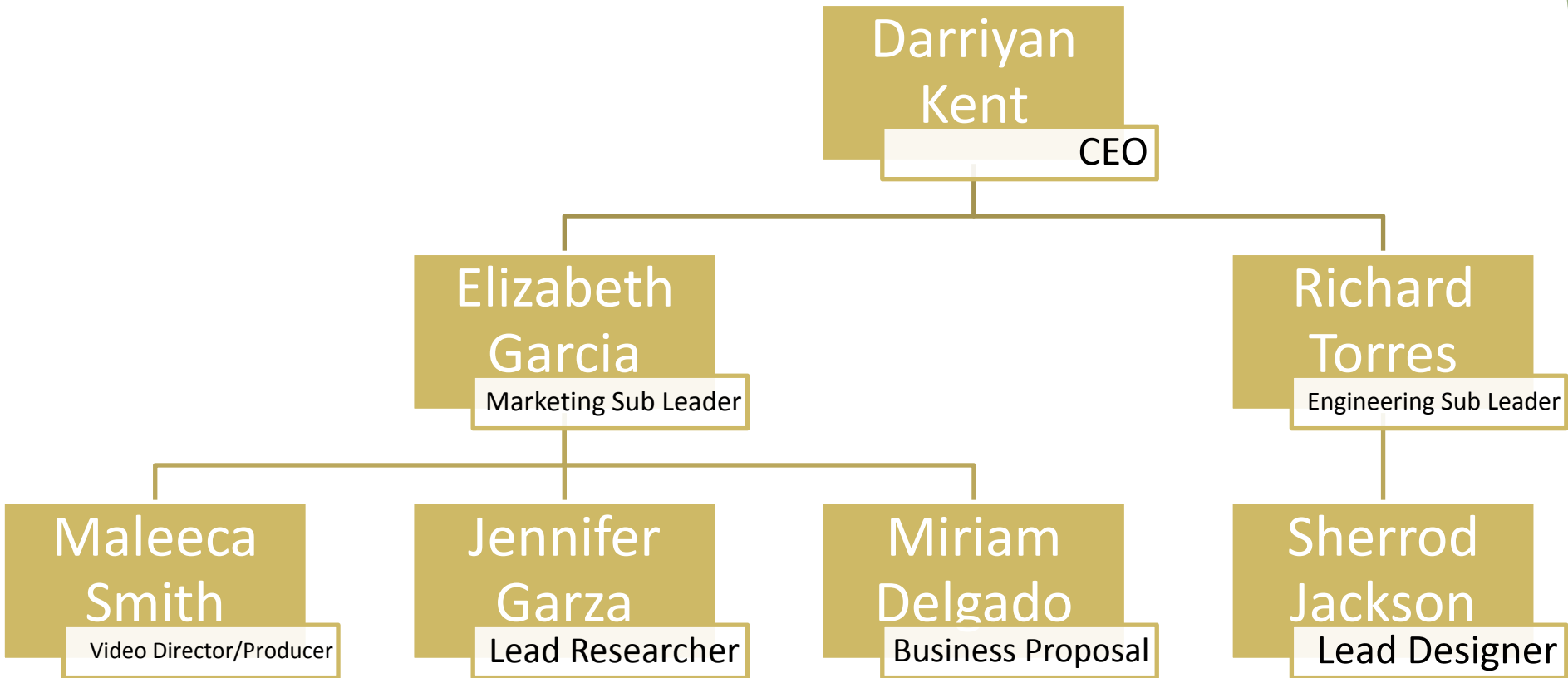




Video

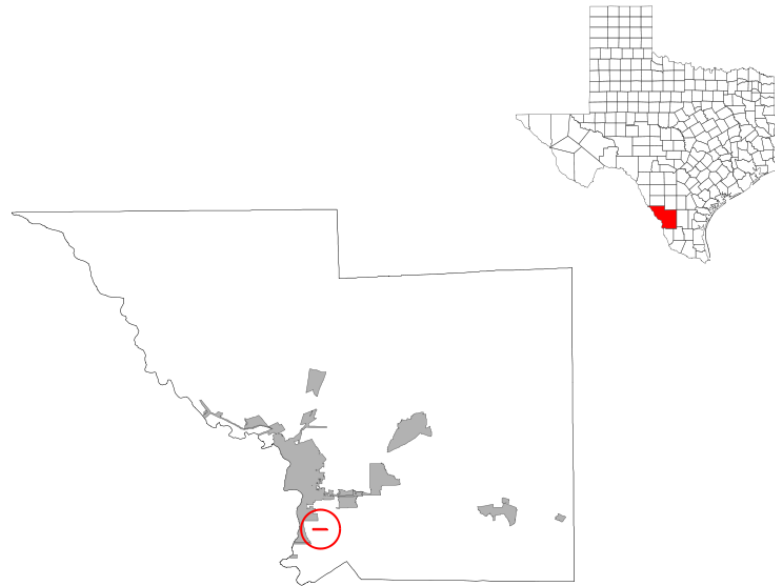


Company Profile



Market Summary

- Residents of La Presa, Texas
- Located near Laredo, Texas
- Lack energy supply
- Borrow power from neighbors
- Generators



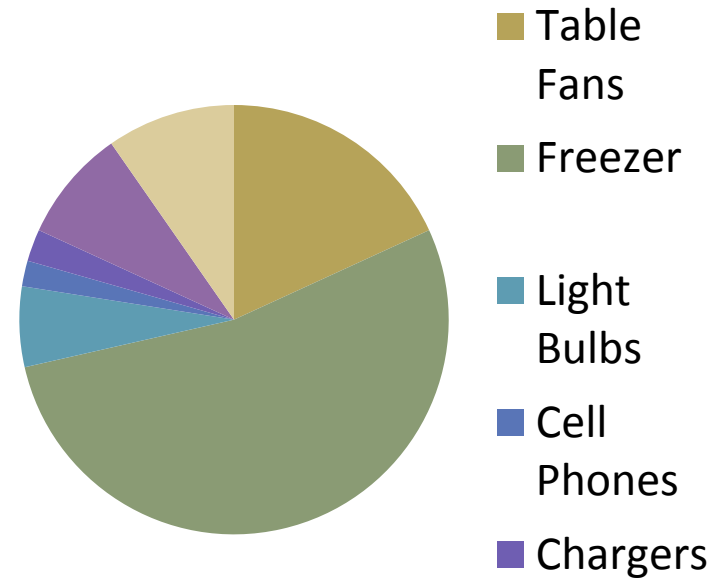
Goals and Objectives

- Provide Power
- Cost Effective
- Pays off in 5 years
- Reliable



Energy Consumption

- 1 home consumes about:
 - 5.5 kWh daily
 - 167 kWh monthly
- 15 home consumes about:
 - 82.5 kWh daily
 - 2505 kWh monthly

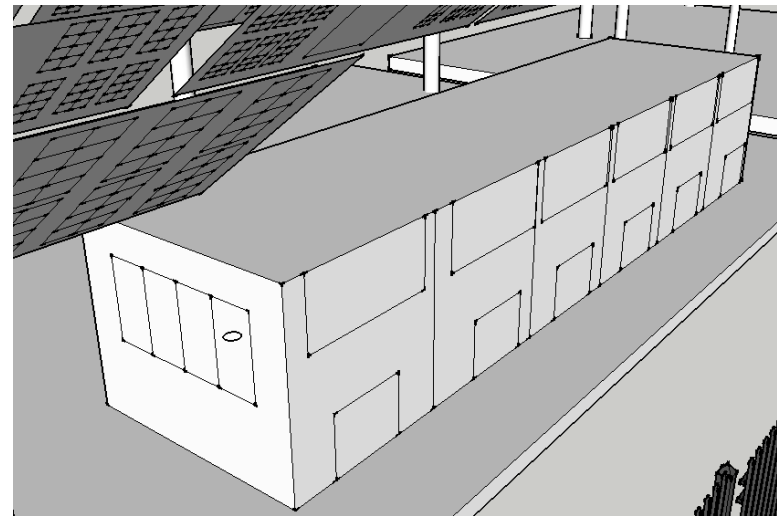
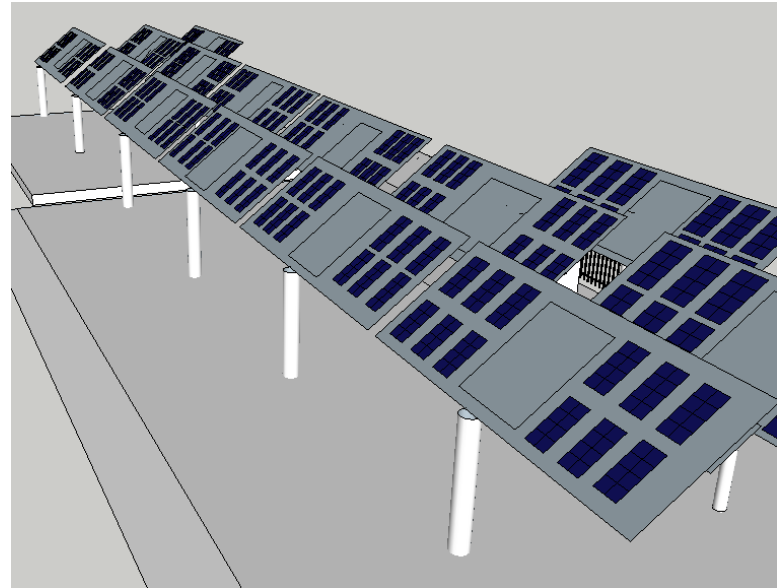


*Loads based on Helping Hands Calculations

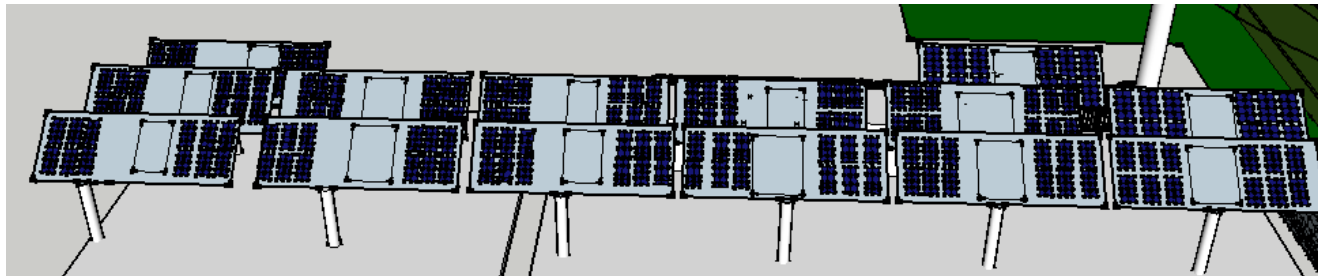
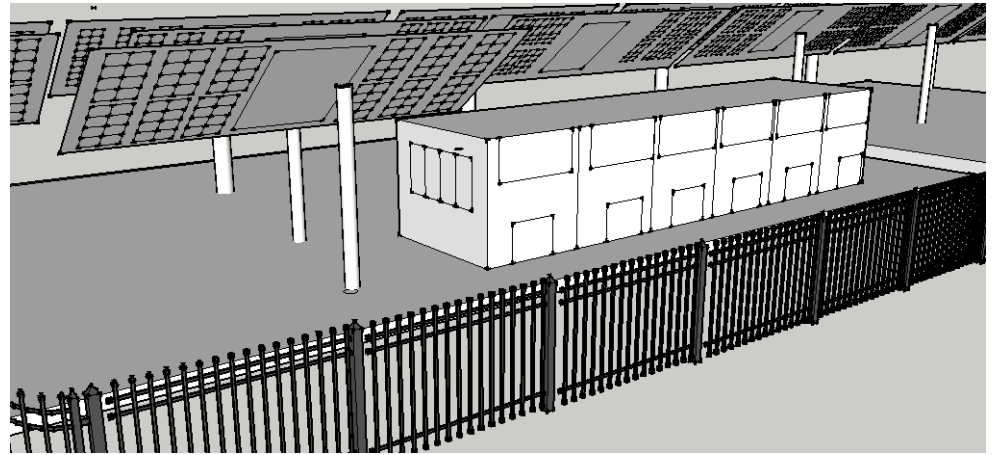
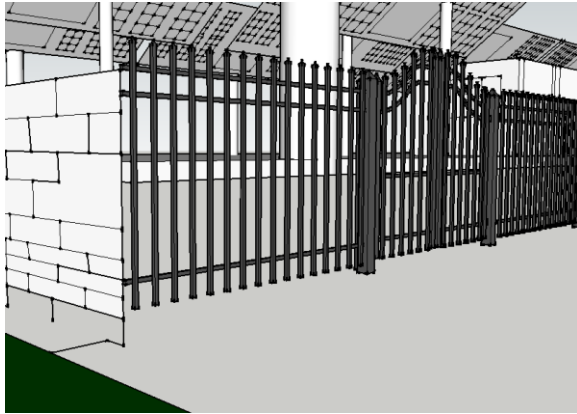


Our Design

- Solar Powered
- 180W Panels
- 135 Panels
- Array of 14 mounts
- 10 Panels per mount except last mount which has 5 Panels
- 1 day worth of extra power from batteries
- Everything enclosed in a shipping container



Our Design



Financials

- 5 Year Plan
- \$2 or \$3
 - Austin pays about 4 cents
- Breaking Point Varies
 - \$2 kWh: 4-5 Years
 - \$3 kWh: 2-3 Years



*\$ per kWh based on a constant consumption rate



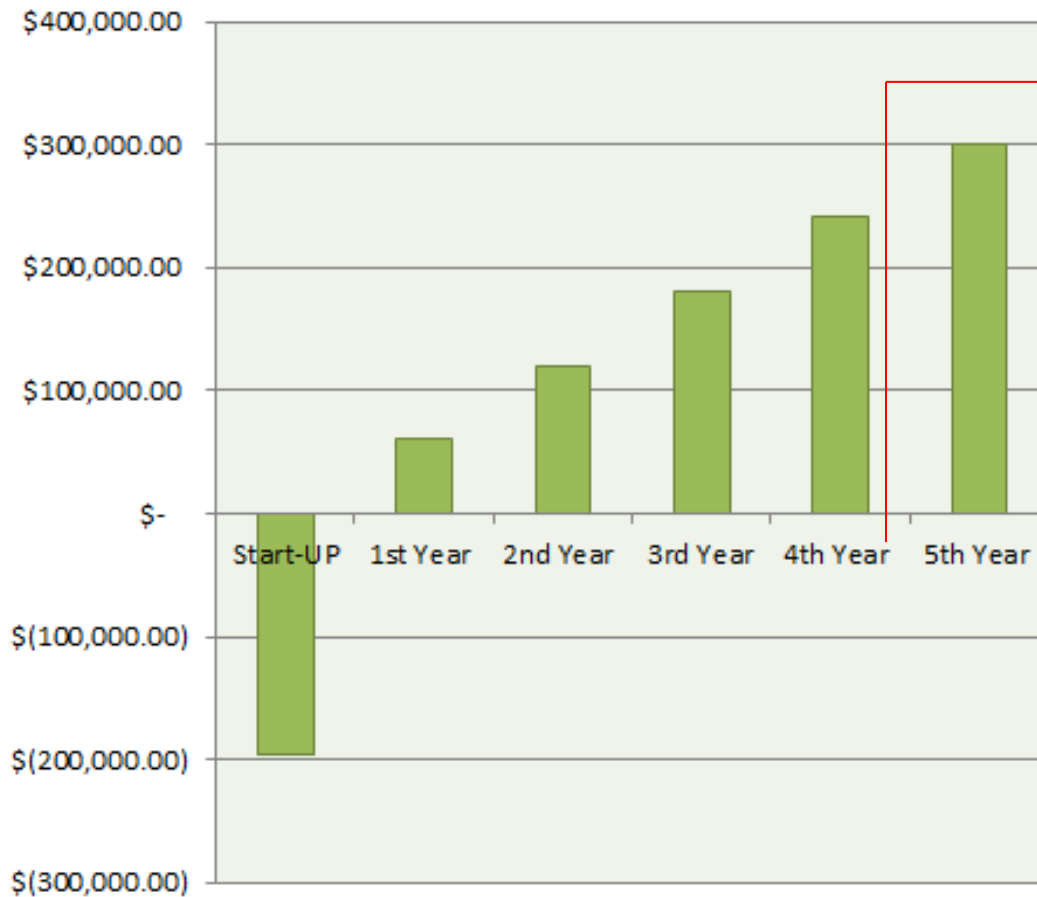
Budget

Equipment	Qty.	Cost	TOTAL
Suntech Monocrystalline 185W Solar Panels	135	\$ 469.00	\$ 63,315.00
Concorde PVX-1040T Sun-Xtender	90	\$ 294.20	\$ 26,478.00
UniRac Solar Panel Mount 10	14	\$ 965.00	\$ 13,510.00
Midnight Solar Battery Enclosure 12	7	\$ 629.16	\$ 4,404.12
Sunny Island 5048	4	\$ 4,111.80	\$ 16,447.20
Outback Flexmax 60 Solar Charge Controller	4	\$ 559.00	\$ 2,236.00
Midnight Solar Battery Enclosure 6	1	\$ 357.00	\$ 357.00
Labor	1	\$ 20,000.00	\$ 20,000.00
Wiring (Inverters, System, Solar Panels)	1	\$ 42,016.00	\$ 42,016.00
Other (Fencing)	1	\$ 8,656.00	\$ 8,656.00
Shipping Container	1	\$ 1,995.00	\$ 1,995.00
Other Hardware	1	\$ 9,000.00	\$ 9,000.00
Cable Poles	5	\$ 10,000.00	\$ 50,000.00
TOTAL	246	\$ 2,357.36	\$ 258,414.32



Financials

\$2 kWh



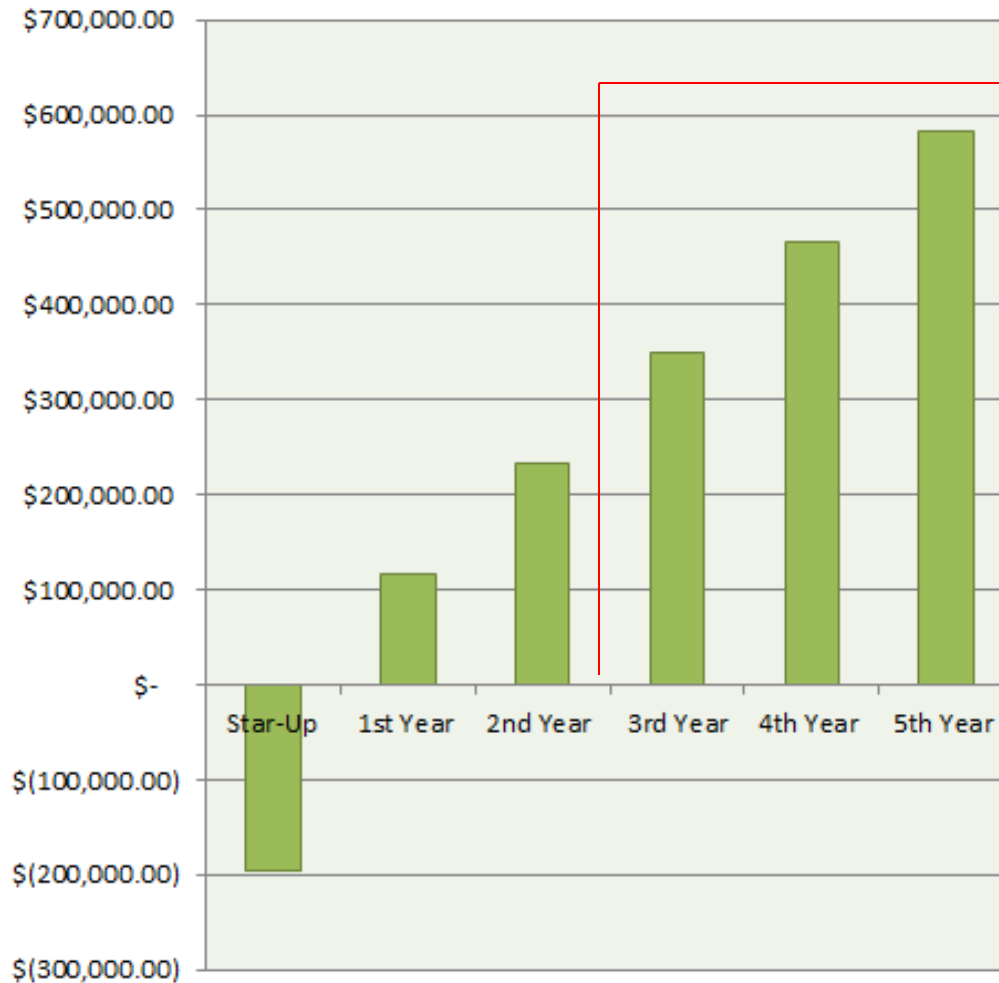
- Breakeven point between Years 4-5

■ Per 15 Houses



Financials

\$3 kWh



- Breakeven point between Years 2-3

■ Per 15 Houses



Future Expansion

- Solar Panel roof mounting
- Expand from 1 phase to 3 phase
- Smart Meters/Micro Smart Grid
- Lower costs of kWh





THANK YOU

