Facts on the Ground FTC Distributed Solar Generation Workshop



Vikram Aggarwal Founder & CEO



EnergySage – The Online Solar Marketplace





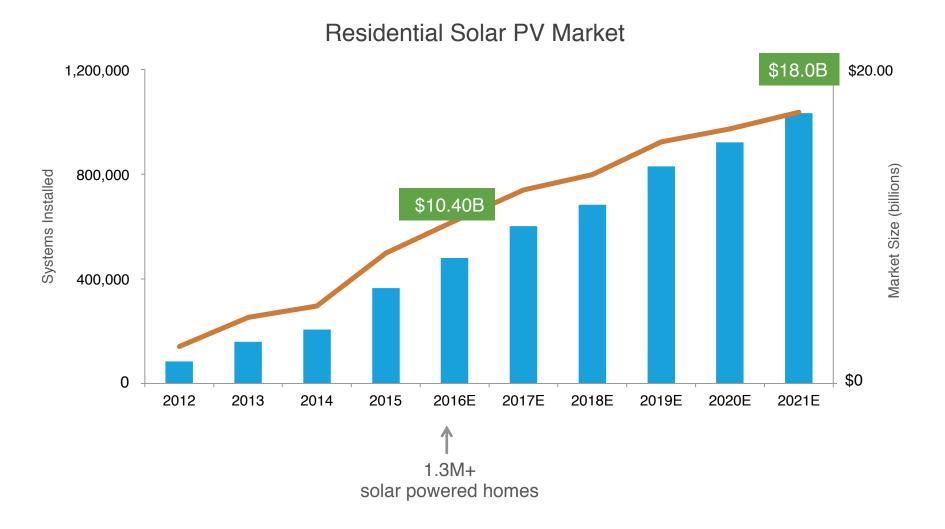


- Homeowners create property profiles
- Property location
- Energy use
- Equipment & financing preferences

- 2. Solar installers design systems, submit quotes
 - Use aerial images
 - Submit quotes online via marketplace

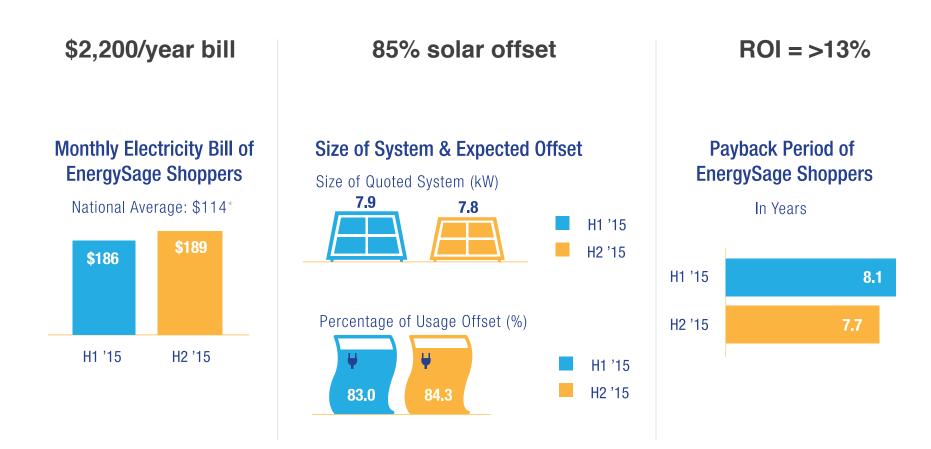
- 3. Compare quotes & select best value
 - Standardized quotes
 - Easy to compare quality & price
 - Live decision support

2016 U.S. residential solar market: \$10.5B+; CAGR: 50%+

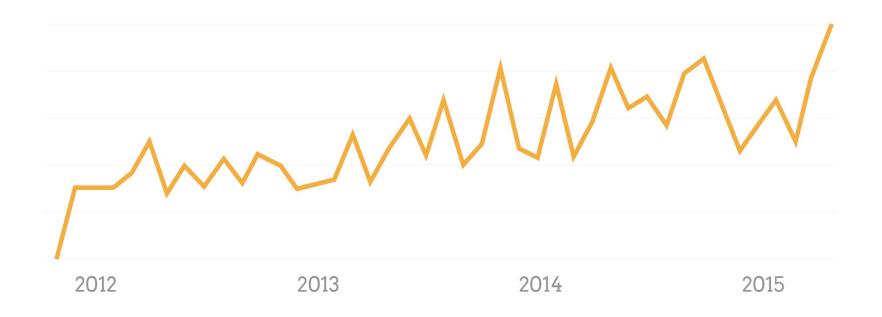


Source: GTM

Solar economics are driving consumer interest



Interest in solar increasing due to increased awareness and 'peer effects'



3x increase in search volume for "best solar companies" since 2011

In 2015, over 12 million households considered going solar

4–6 Million

Active Solar Shoppers

5–7 Million

Interested Households

Key Issue: Lack of transparency

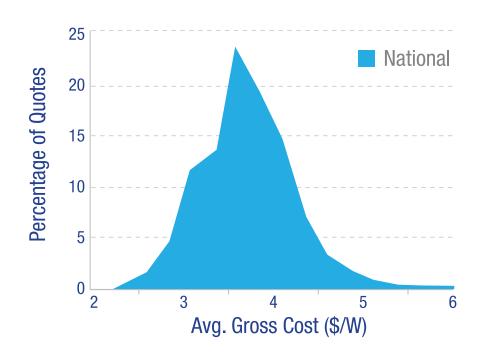
- Uninformed consumers
- Increasing choices
- Limited, unbiased information and transparency
- Lack of standardization



Opportunities for salespeople to mislead

Prices vary dramatically

Price Distribution in EnergySage Quotes



Range: \$2.50/W - \$5.50/W

\$20,000+ difference in low – high prices

Highly fragmented industry

- 3,000+ installers
- 50+ panel manufacturers
- 25+ inverter manufacturers
- 100+ financiers

Solar equipment quality varies significantly

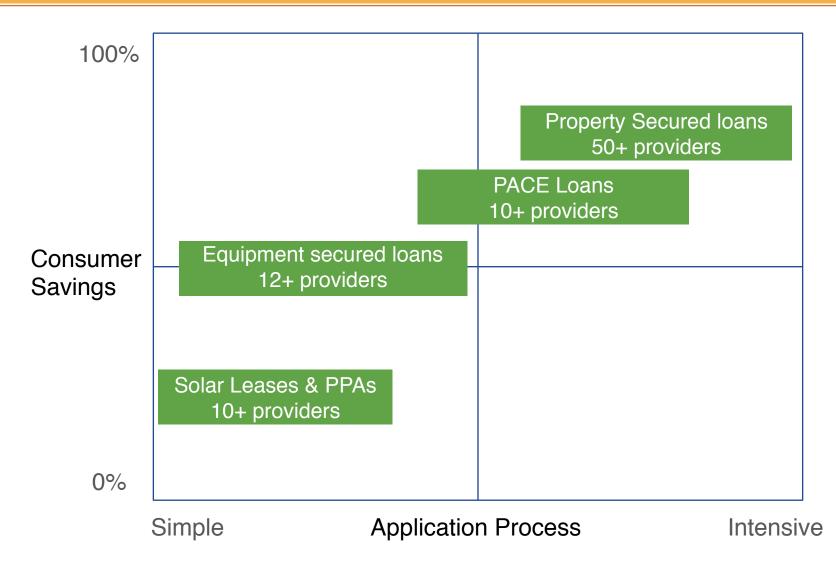
Economy

Quality Spectrum Premium

Factors:

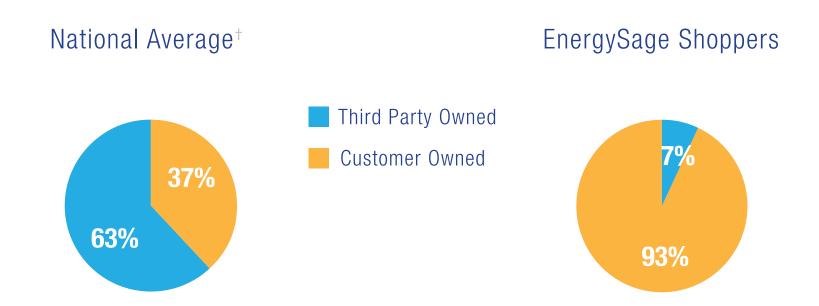
- Product quality
- Durability
- Warranties
- Aesthetics

100+ lenders now offer solar financing



The power of transparency

Financing Options Selected



63% Industry Average Selects Third Party Ownership 7% of EnergySage Shoppers Select Third Party Ownerships

Consumers face four main issues

- 1. False or misleading advertising
- 2. Overly aggressive sales tactics
- 3. Lack of transparency & standardization of solar quotes
- 4. Anticompetitive practices in online search

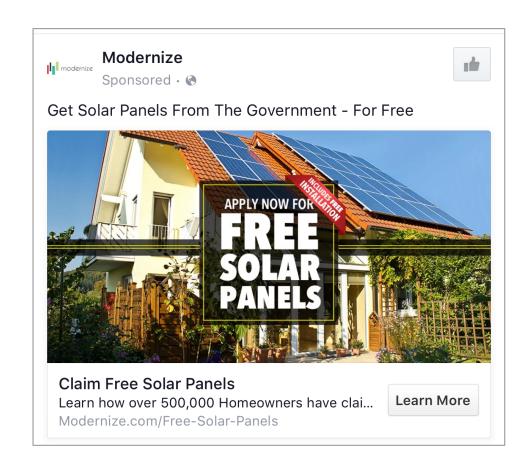
Issue 1: False or misleading advertising

Problem

- Misleading advertisements
- Lowers consumer confidence
- Slows adoption rates

Possible Solution

- Consumer education
- Enforce Truth-in-Advertising laws



Issue 2: Overly aggressive sales tactics

Problem

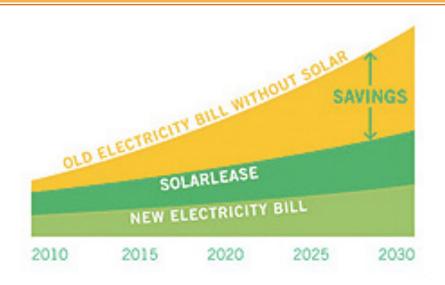
- Unsolicited cold calls / door knocks
- High pressure to sign contracts
- Heightens consumer distrust

Possible Solution

- Consumer education
- Enforce National Do Not Call Registry



Issue 3: Lack of standardization in solar quotes,



Problem

- Modified assumptions to inflate savings
- Hidden dealer fees for loans
- No transparency into equipment quality
- No standardized metrics

Possible Solution

- Develop standardized solar quote guidelines (e.g., "Used Car Rule")
- Develop "Buyer's Guide
- Commitment from solar companies

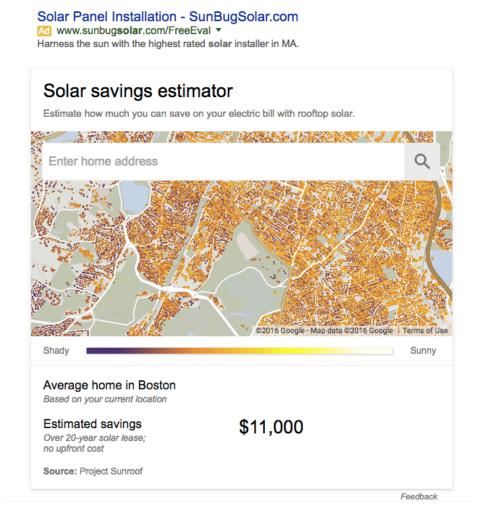
Issue 4: Anticompetitive practices in online search

Problem

- Google promoting proprietary solarlead-generation service in search results
- Limits consumer choice

Possible Solution

Discourage anti-competitive behavior



Vikram Aggarwal Founder & CEO



AS SEEN IN

"The marketplace's functionality and usability is light years ahead of other similar sites."

- GREENTECH MEDIA

Consumer Reports





Kiplinger



The Boston Globe

Forbes

Bloomberg

OUR PARNERS

















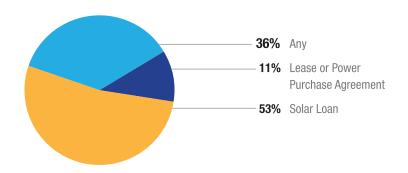




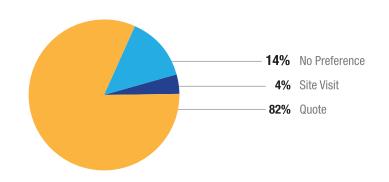


Consumer research reveals preference for system ownership, quotes before site visits, and value

Solar Financing Preferences



Preference for Site Visit First or Quote First



Highest Priority When Evaluating Solar Panels

