ASES and the Web / A Road Trip Keya Lea Horiuchi Oct 2013

### Others have taken road trips.







# What Will Be Covered?

- Look our world and new era of communication
- The value of ASES
- How online advertising works
- What SEO is and why it's important
- Example of how Solar Today would go online
- Supporting Chapters and Business members
- Generating revenue

## How Has Media Changed from 1954 to 2013?

- Radio
- TV



Dominated by Broadcasters

Dominated by Broadcasters

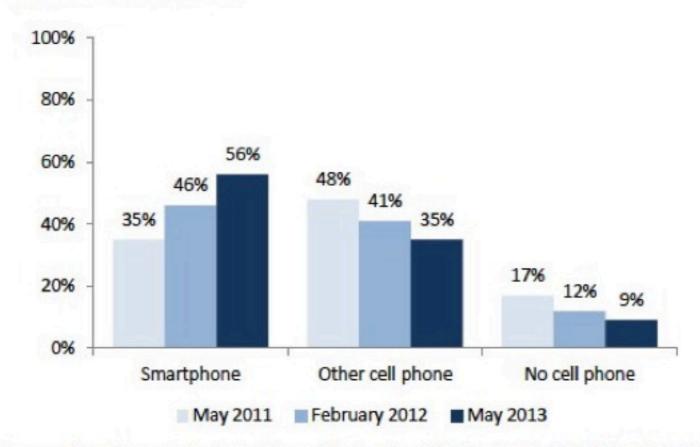
Internet



## **Dominated by Content**

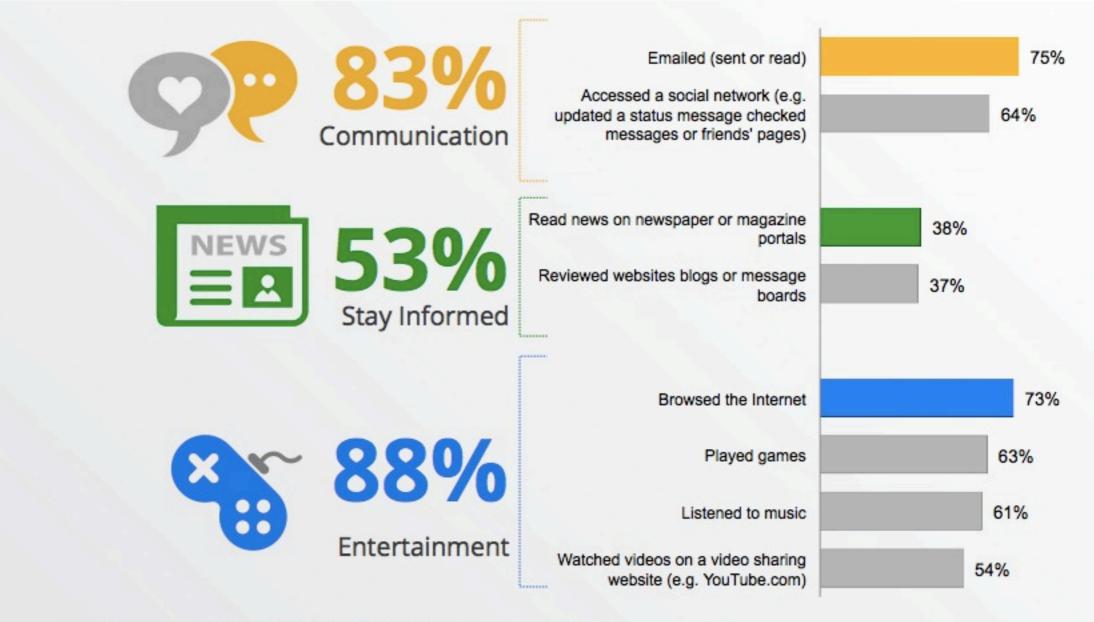
### It just has to be found.

Changes in smartphone ownership, 2011–2013 % of all U.S. adults who own...



Source: Pew Research Center's Internet & American Life Project April 26-May 22, 2011, January 20-February 19, 2012, and April 17-May 19, 2013 tracking surveys. For 2013 data, n=2,252 adults and survey includes 1,127 cell phone interviews. All surveys include Spanish-language interviews.

### **Smartphones are a Multi-Activity Portal**



Source: Our Mobile Planet: United States, Google/Ipsos OTX MediaCT, US, May 2012 Base: Private smartphone users who use the internet in general, Smartphone n= 1.000

Q23: Which of the following activities do you do with your smartphone? Please indicate whether you ever do this at all.

#### http://ssl.gstatic.com/think/docs/our-mobile-planet-united-states\_research-studies.pdf

# Smartphone Users in the World

80% of the world's population now has a mobile phone



Number of Smartphones in U.S 91.4 Million



Mobile Phones in World 5 Billion ILOS Billion are smart phones

http://www.go-gulf.com/blog/smartphone/

# Smart Phones are Connected to the Internet All the Time

- Having a Smart, Accessible Web Presence is more important than ever
- Allowing people to find content and comment on it, share it with others is key in an interconnected world.

## Mission ASES

To inspire an era of energy innovation and speed the transition to a sustainable energy economy.

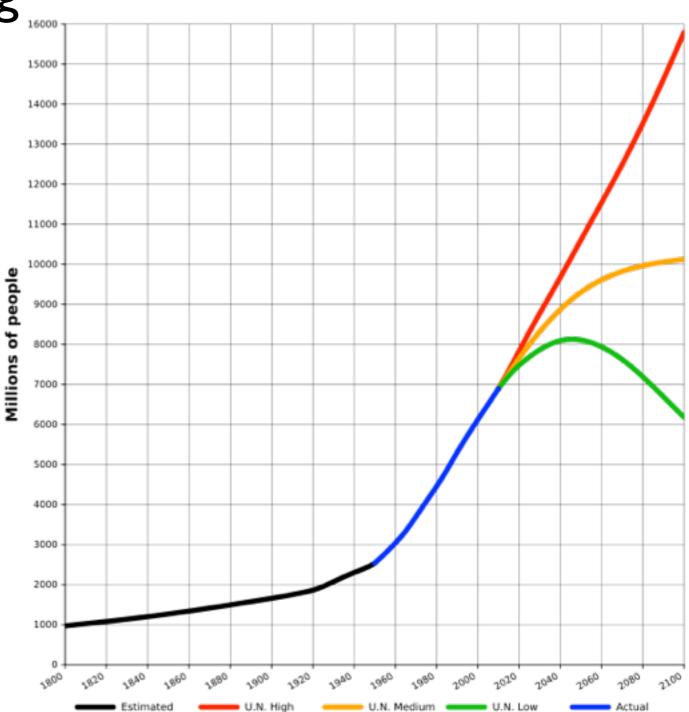




## Our World

## 7 Billion people and growing







What does the world need?

Energy

# What Does ASES Have?

- Almost 60 Years of valuable solar, renewable & sustainable energy information.
- It's the information that is missing from the internet.
- It's incredibly valuable as people seek sustainable energy sources. People in developing countries have smart phones and look for information.
  Why not serve up (clean!) energy information?
- Information that people look for (via search engines) has tremendous value to advertisers.

## Web Ads & Monetization



AdSense products	You make your ad spaces available
Benefits	You make your website ad spaces available by pasting ad code on your site, and choose where you want the ads to appear.
How it works	
	The highest paying ads appear on your site
	Advertisers bid to show in your ad spaces in a real-time auction. The highest paying ad will show on your site.
	You get paid
	We handle the process of billing all advertisers and networks for the ads on your site, to make sure you receive your payments.

encrypted online communications.

Mr. Snowden, 30, has been praised by privacy advocates and assailed by government officials as a traitor who has caused irreparable harm, and he is <u>facing charges under the</u> <u>Espionage Act</u> for leaking the N.S.A. documents to the news media. In the interview, he said he believed he was a whistle-blower who was acting in the nation's best interests by revealing information about the N.S.A.'s surveillance dragnet and huge collections of communications data, including that of Americans.

He argued that he had helped American national security by prompting a badly needed public debate about the scope of the intelligence effort. "The secret continuance of these programs represents a far greater danger than their disclosure," he said. He added that he had been more concerned that Americans had not been told about the N.S.A.'s reach than he was about any specific surveillance operation.

"So long as there's broad support amongst a people, it can be argued there's a level of legitimacy even to the most invasive and morally wrong program, as it was an informed and willing decision," he said. "However, programs that are implemented in secret, out of public oversight, lack that legitimacy, and that's a problem. It also represents a dangerous normalization of 'governing in the dark,' where decisions with enormous public impact occur without any public input."

Mr. Snowden said he had never considered defecting while in Hong Kong, nor in Russia, where he has been permitted to stay for one year. He said he felt confident that he had kept the documents secure from Chinese spies, and that the N.S.A. knew he had done so. His last target while working as an agency contractor was China, he said, adding that he had had "access to every target, every active operation" mounted by the N.S.A. against the Chinese. "Full lists of them," he said.

"If that was compromised," he went on, "N.S.A. would have set the table on fire from slamming it so many times in denouncing the damage it had caused. Yet N.S.A. has not offered a single example of damage from the leaks. They haven't said boo about it except 'we think,' 'maybe,' 'have to assume' from anonymous and former officials. Not 'China is going dark.' Not 'the Chinese military has shut us out.' "

An N.S.A. spokeswoman did not respond Thursday to a request for comment on Mr. Snowden's assertions.

Mr. Snowden said his decision to leak N.S.A. documents developed gradually, dating back at least to his time working as a technician in the Geneva station of the <u>C.I.A.</u> His experiences there, Mr. Snowden said, fed his doubts about the intelligence community, while also convincing him that working through the chain of command would only lead to retribution.



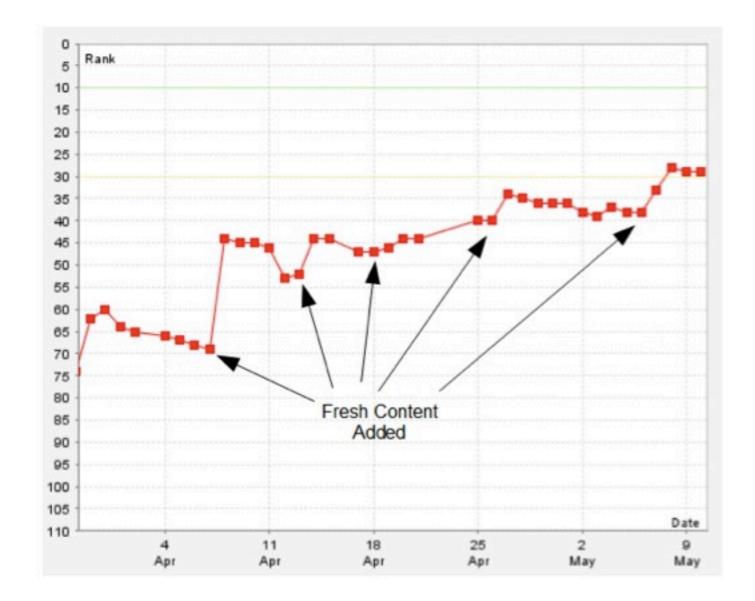


## One reason why people blog:

Creating content that people are looking for and place ads within it.

00	Google AdSen	se - Rep	orts			-		
Chttps://www.google.com	/adsense/report	/overvie	w?timePerio	d=tc😳 * Q.* Go	ogle			
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Google				Search	AdSense Help	Ш	Mar 31	
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Overview   Advanced Reports - Ad Perfo	rmance   Adv	anced R	eports - Sear	ch Performance			Apr 28	
Today's Earnings: \$100.62	NEW Sprea			re revenue by refe			Apr 30	
View payment history	useful produc page for detail		ervices like /	AdSense. See out	What's New	Ш	Balance	e a
						U	May 25	
View: today							May 31	
	age impressions 19,339	Clicks 520	Page CTR 2.7%	Page eCPM (?) \$5.20	Earnings \$100.62		Balance	
AdSense for content > top channels	19,339	520	2.1%	\$0.20	\$100.02		Jun 24	
AdSense for search			- No data	available -			Jun 30	
	Clicks	CTR	Sign-ups	Conversions [?]	Earnings		Balance	
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elo i	Mar 25	Payment issued - details		(\$576.59)	
lp	Mar 31	Earnings (Mar 1 - Mar 31) - details	\$375.53		
	Balance	e at end of March 💿			\$375.53
	Apr 28	Payment issued - details		(\$375.53)	
to	Apr 30	Earnings (Apr 1 - Apr 30) - details	\$461.26		
w	Balance	e at end of April 🕐			\$461.26
	May 25	Payment issued - details		(\$461.26)	
- 1	May 31	Earnings (May 1 - May 31) - details	\$744.64		
gs 62	Balance	e at end of May 🕐			\$744.64
	Jun 24	Payment issued - details		(\$744.64)	
_	Jun 30	Earnings (Jun 1 - Jun 30) - details	\$636.02		
gs 00	Balance	at end of June 💿			\$636.02
	Jul 26	Payment issued - details		(\$636.02)	
2	Jul 31	Earnings (Jul 1 - Jul 31) - details	\$806.52		
1	Balance	e at end of July 💿			\$806.52
	Aug 24	Payment issued - details		(\$806.52)	
	Aug 31	Earnings (Aug 1 - Aug 31) - details	\$821.88		
	Balance	at end of August 🛞			\$821.88
011	Sep 26	Payment issued - details		(\$821.88)	
	Sep 30	Earnings (Sep 1 - Sep 30) - details	\$826.35		
	Balance	e at end of September 🕐			\$826.35



### ASES Has Great Content Already

## ASES Has Lots of Content

- Information the world needs
- Research to share with others, build upon, drive innovation
- Valuable content to advertisers
- Give value to solar advertisers. Through basic search (since every article and paper is SEO) more people see content and learn about business sponsors.
- ASES has more options. All the content is dynamic.

### Leverage Content's Value

Build Up and Support Chapters, Business and Professional Membership While Fulfilling Mission

To inspire an era of energy innovation and speed the transition to a sustainable energy economy.

## **The First Page of Mobile Search Results is Key** 614 only look at the **first page** of results when conducting a search on their smartphone (300000000gle) 2 3 4 5 6 7 8

Source: Our Mobile Planet: United States, Google/Ipsos OTX MediaCT, US, May 2012

Base: Private smartphone users who use the internet in general and who are searching via search engine, Smartphone n= 962

Q32: How many search result pages do you look at, when conducting a search with your ...?



## **Google Search Algorithms**

How does it figure out which website to show first?

- There are a large number of factors:
- How old is the website?
- How many other sites are linking in?
- How long do people stay on the site?
- Does the url match the content?
- Does the meta data match up with the content?
- Are the images tagged with the same key words?
- How frequently does the text show up within the content?
- Do the title tags match up with the tags that follow?
- Are there broken links within the page?
- How often does this site generate content? Etc...

It's actually a super secret complex algorithm that frequently changes.

Pdfs can show up within searches, but often do not.

1000	e	solar	panel
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	_		
		-	

Maps Shopping News-More - Search tools Web Images

About 87,100,000 results (0.35 seconds)

#### Ads related to solar panel ()

Residential Solar Panels 1 (219) 554 8854 www.korellisroofinging.net/ < Chicago Area Solar Roofing. Contact Us Today. gallery - map

Residential Solar Panels 1 (773) 273 6991 www.chicagoflatroofrepair.net/ \* Chicago Area Solar Roofing. Contact Us Today. gallery - map

Residential Solar Panels - lakefrontconstruction.net www.lakefrontconstruction.net/ > We Install Solar Pannels on Your Roof, Call Now For an Estimate.

#### Solar panel - Wikipedia, the free encyclopedia en.wikipedia.org/wiki/Solar panel \*

A solar panel is a set of solar photovoltaic modules electrically connected and mounted on a supporting structure. A photovoltaic module is a packaged, ... Solar cell - Suntech Power - Photovoltaic system - Sharp Solar

#### Solar Panels - Amazon.com

www.amazon.com/b?node=3236381 + Results 1 - 24 of 4608 - Online shopping for solar and wind energy accessories ... Goal Zero 14101 Luna USB LED Stick Light. \$11.99 RENOGY 100 Wat: 100w Monocrystalline Photovoltaic PV Solar ... \$209.99

#### Residential Solar Panels For Your Home - SunPower

us.sunpowercorp.com/homes/products-services/solar-panels/ \* It's a fact: Residential solar panels from SunPower produce the most energy of all solar panels on the market. Because SunPower home solar panels are so ...

#### Solar Panel Kit - Harbor Freight Tools

www.harborfreight.com/solar-panel-kit-45-watt-68751.html \* Solar panel kits cost less everyday at Harbor Freight. This versatile 45W solar panel kit includes 3 15W solar panels, voltage regulator and mounting hardware.

Buy Solar Panels - Kyocera, Mitsubishi, Sanyo, Sharp, REC Solar ...

www.wholesalesolar.com/solar-panels.html -25+ items - Compare prices and buy all brands of solar panels for home ...

Key Points: • Tight power tolerance • Rigorously tested high efficiency ... Taiwan. Key Points: • Each panel flash tested in STC conditions • Reliable ... USA

Solar Panels by the Pallet - ET Solar P672300WB 300 ... - ET-P660250WB - Sanyo

#### News for solar panel

A Staff of Robots Can Clean and Install Solar Panels New York Times - 4 days ago With the price of solar panels falling, the industry is looking to labor savings to achieve its goal of make solar energy cheaper than natural gas.

Panasonic will Exhibit New HIT Solar Panels at Solar Power International 2013 Wall Street Journal - 1 day ago

#### Images for solar panel - Report images





Sponsored (II)



Gate Openers... CivicSolar

Shop by price Up to \$100 \$100 - \$250 \$250 - \$600 Over \$600

#### Ado (D)

Solar Panels at Lowe's® www.lowes.com/ \* \*\*\*\*\* 11,227 reviews for lowes.com Find Solar Panels & More Online At Lowe's® Official Site Today!

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www.solarhome.org/ \* 290W Trina Panels - from \$0.69/watt In Pallet or Container Quantity

#### Residential Solar Panels

www.dmoofingandconstruction.net/ \* 1 (888) 978 0749 Chicago Area Solar Roofing. Contact Us Today.

#### Solar Panels

www.homedepot.com/ + \*\*\*\*\* 2,805 seller reviews Solar Energy Solutions for Houses The Home Depot. Shop and Save Now.

#### Kyocera 245W Solar Panels

www.emarinesystems.com/ Great deal on KD245GX-LFB Marine Mounting Kits available.

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www.ussolarinstitute.com/ > 1 (877) 389 3804 Wholesale Solar Panels & Best Parts Solar Pros Shop Here For Low Price

Schneider Solar Energy www.schneider-electric.us/ - Be part of the ASES National Solar Tour, Oct. 6 mpc >

### advances solar rechnology | analysis | markets

#### Dow Powerhouse: **Evolving Toward High Efficiency**

iding-integrated photovoltaic (BPV) shingles made the remencial debut in Denver last fail, but the company was coy about technical ecifications. We set down with CEO Jane Palmien in February to learn more.

First of all, Palmiesi said, future growth announced a specific efficiency because depends on solar being sold as a consumer product. So Powerhouse will be sold not through traditional solar installen, but through mainstream roofers and homebuilders. It is designed to handle like

Help

with

61

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a conventional arphalt shingle roof in bundles through a water-Eight manifestana And so, for the Inst generation of production.

Dow chose not a

At 11 percent, a three square-foot shingle would produce 25 peak watts. - noticed preto a The homebuilding company D.R. Horton is now installing 3-kilowatt (kW) Powand nailed down enhouse systems on new-construction homes in the Deriver area. That would require 120 shingles covering 360 square feet (33 square meters).

Powerhouse shingles plug together. The only cable run required is off the end of the string to a central inverter ifrom Kaco or Emerson). The first three retail technology, but a copper-indium-gallumdealers, who plan to sell the product for selenide (OGS) this film on a light, flexible rensioning projects, are Academy Rooming (Denver), B&M Roching (Frederick, Colo.) and D&D Roofing (Commerce City, Colo.). And, according to Palmieri, CIGS is not the final word. Powerhouse may evolve into a high-efficiency gallium arsenide. product - STRANGA

that's been a moving target. It's gone from

Spercent to more than 11 percent within

the past year, and is headed for 13 percent

as the company ramps up to full scale pro-

duction at a larger plant in Midland, Mich.

ing rapidly, and the company hasn't 10 RAVIEU SOLAR TODAY minister of

rigid, relatively fragile crystalline silicon

plastic substrate. Dow buys the plastic

modules from existing GGS manufactur-

ers, then laminates them into a standard

12-by-36-inch shingle shape. Palmieri

notes that the OGS technology is improv-

#### Greening WREF 2012

- site of the World Renewable Energy ranam (WREF 2012), May 13-17 - Nas seen generating solar power since 2008 The 300-BW array on the south roof (see cover photol uses 1,310 230-water Sum Prover modules feeding three SatCon share phase invertiers, installed with a nonpenerouting builasted tack by Namas Solar, the system provides 14 percent of the building's electricity year round, and up to 23 percent during air condau season (see the data log at bit.ly Hel.God. Another 25 percent of the building's elecmy load is carried by wind power. LEED In May 2010, the CCC received LEFE) Existing Building Operations and Maintenance certification.

Waste and Water CCC has an advanced waste-handling process that diverts 48 percent of its refuse from landfill to compost, recycling and donation programs. in Colorado's high-prairie climate, water use is a critical issue, so the CCC landscaping uses native drought resistance planes to reduce integation load by 75 percent. Water-saving measures are used throughout the complex.

Air Quality and Carbon Offsets Drugs of delivery and passenger vehicles should note that Derver's anti-idling ordinance a strictly enforced. Walton are invited to use the two like Share stations (brack.com). And attendees may purchase carbon oradits on site to offset the carbon footprist of travel to WREF 2012.



#### ed to reduce or elevinute the up front costs. Connecticut, Maryland, Manachusetts, New Israny, SolarCity Launches Home Energy Loans induce air quality.

tion Laboratory (POIL) at NREL

directly onto the substrate.

them into just the right positions.

hores asked Brand and Teplin whether they could use

a breakthrough at OFNL called RABITS Insiling-assisted

biaxially textured substrates). If metal foil is to work as

a substrate, it must be able to act as a seed crystal so

The RABITS process forms crystals in the fail that are

connectly oriented to receive the silicon atoms and lock

the foil substrates, the resourchers were able to rep-

licate the desired fail crystal structure in the silicon

Battolle Ventures and Innovation Valley Partners

then larred Ampulse, and established a \$500,000

(75-14) with Fift, and a timilar agreement with

or currentry now has 33 employees and

in consistents and is convertly working with

Using the obtect intermediate buffer layers to coat

SolarCity introduced energy efficiency services to 2010 and has launched more than 5,000 efficiency projects in Arbeina California, Colorado, Oregon and Texas lout of 13,000 energy projects across the

#### energy efficiency upgrades rationaide. The com-A proprietary software package performs follows or calculations during each home mahatton to produce more the cause of high utility bills and energy a comprehensive overview of oppose options, include nd a range of upgrades to reduce enangy costs

WROT Others ALA LEED condits 12 EPA Bules 1.8 Community Solar 1.8

ing ar influence, insulation, heating/cooling and duct losi age. The loan program is underwritten by Advocats Bank of Bocton, Packages include a one-year "Save Now Pay Later" option, or a threat or 50-year "Pay Rs You'Go" option.

country). The energy officiency service now movers's

By BILL SCANLON Growing Silicon Crystals Directly on Foil rspulse Corp., working with the Oak Ridge 22 sponsored researchers fro

Annube Corp. wolking with the Cale Kappa National Laboratory (CRNL) and the National Renewable Energy Laboratory (NREL). has "No have the potential to produce a 15 percent efficient solar cell at less than 50 cents per watt with a fraction of the capital investment of other venture developed a chemical sapor deposition process to funded (photosoltaics) companies," said Ampulse CED grow silicon on inexpensive foil, creating cells just thick enough --- 10 microns or less -- to convert Steven Hane. "And that's due most of the solar energy into electricity. The process to our R&D collaborations.

eliminates the waste involved in sawing waters from with the national labs." The production line at POIL massive silicon boules. The company has built a pilot production line in the Process Development Integra- consists of half a dozen vacuum chambers where foils are A team of NREL scientists, including Howard Branz overcoated with buffer and and Chaz Teplin, in 2005 developed a way to thicken silicon layers. It was built to Ampulse's specifications by silicon waters with a perfect crystal coating. A hot tungston Rament decomposes the silane gas at about Roth & Ray Microsystems of Germany. Quartz lamps heat 700°C (1,292°F), allowing silicon layers to deposit metal foils to 850°C (1,562°F) Then in 2007, visiting investors from Battelle Ven-

and the foils are coated with the necessary buffer layers. After transfer to a specially designed chamber, the key silicon layers are grown. The silicon is then exposed to atomic hydrogen to Improve its electronic properties. Finally, solar cell junction and electrical contacts are developed. the silicon can grow on it with the correct structure. The main thing is that we can grow high-quali-

ty silicon layers very fast and without putting much energy into the process. That means the solar cells.can turn out much cheaper than the wafer based cells," said Branz.

silicon phase, bypassing the growth and sawing phase. said Mike Colby, Ampulse's director of planning and logistics. The goal is to achieve the crystal silicon performance that until now focused on thicker waters - and without having to use a 1,400°C (2,552°F) furnace."

quality slicter waters directly from silane gas. byparsing the wanters spaling process

"Our process goes directly from gas to the epitaxial

CONSIGN FOR TODAY MILITY IN

http://www.omagdigital.com/publication/? i=136002&page=1





# Articles become different web pages / urls so specific content can be found.

#### http://solartoday.org/05/2012/dow-powerhouse-evolving-toward-high-efficiency

Dow Solar's Powerhouse building-integrated photovoltaic (BIPV) shingles made their commercial debut in Denver last fall, but the company...



Image tags: Dow Solar shingles, building integrated photovoltaics, BIPV, roofing

Alt text / Image caption: Dow Solar shingles are a type of PV that can be integrated into a building roof.



Image tag: Jane Palmieri, Dow Solar

#### http://solartoday.org/05/2012/greening-wref-2013

The Colorado Convention Center (CCC) - site of the World Renewable Energy Forum (WREF), May 13 - 17 has been generating solar power since 2008. The 300 kW array on the south roof...

#### http://solartoday.org/05/2012/solarcity-launches-home-energy-loans

SolarCity in March unveiled a home-loan program designed to reduce or eliminate upfront costs of energy-efficient upgrades nationwide. The company offers a comprehensive home-energy evaluation to diagnose the cause of high utility bills...

#### http://solartoday.org/05/2012/growing-silicon-crystals-directly-on-foil

Ampulse Corp., working with the Oak Ridge National Laboratory (ONRL) and the National Renewable Energy Laboratory (NREL) has developed a chemical vapor deposition process to grow silicon on inexpensive foil, creating cells just thick enough - 10 microns or less - to convert most of the solar energy into electricity...



Tag: Bill Scanlon

Alt text / Image tag: Growing silicon wafers from silane gas, NREL

### solar hero | profiling the unsung solar champions

### Louisianan Lights the Way

. fter Hurricane Katrina hit the Gulf Coast in 2005, most people were scrambling to get out of New Orleans. Jeff Shaw, however, was doing everything he could to get in.

With the help of a state representative, Shaw, executive director of the Louisiana Solar Energy Society (LSES), and Bill Ball, a fellow solar enthusiast from Arkansas, were able to tow Ball's 2-kilowatt (kW) solar trailer safely through the post-storm chaos to St. Bernard's Parish. The trailer then powered the port authority there for months, allowing the city to receive much-needed supplies.

For Baton Rouge resident Shaw, 53, the decision to help was an easy one. After all, Shaw owes his interest in solar to Louisiana's frequent power outage-inducing hurricanes. "I've been a sailor for 30 years, and I would use solar to power things on my boat," he said. "When hurricanes would hit, we'd lose power for weeks at a time. So I thought, why don't I do the same thing I've been doing on my sailboat?"

But he didn't stop there. In the last 10 years, shaw has worked to make puisiana one of the friendst states in the nation for ar. Shaw helped write the e's net-metering statute, th passed in 2003. He



Jeff Shaw's advice for fellow solar advocates:

> Study what's is done to promote in neighboring s "Take the good f learn from the b then apply it t you're doing in yo

> > Get familie
> > your state's land
> > process. "I were to a legislator
> > metering, and 'OK, write the 'I'm an enge write a law said, 'Yes, yee a citizen. A write a law write a law said, 'Yes, yee a citizen. A write a law write a law write a law said, 'Yes, yee a citizen. A write a law write write a law write wr

 Start ( chapter: cate oth out the up to work t

ed organize support for the 2007 passage of generous state solar incentives, including 50 percent rebates on solar

# Bring Value Back into ASES Membership

- Within web redesign, prominent placement
- If have own server (dedicated server) can place as many domains as you want. (Will need it to host massive content.)
- Can host chapters websites on server
- Guide chapters to get their information online in a SEO manner, help them get the solar goodness to their communities.
- Support professional / business members by leveraging great content / massive views / search engines serving information their business information can also be seen.



**94%** of smartphone users have looked for local information

90% have taken action as a result

1.000 n your smartphone? (Ever) east less than once a month for actions have you taken after having

## Members

What do people get in exchange? What are they supporting?

- Professional / Business Members \$89 -Listings in a way that benefits them
- HTML & Geolocation. Logic that can show certain ads based upon browser location.
- Can submit articles for publication.
- Build value into ASES membership

## Web Server

ases.org

renewable.org

mnrenewables.org

al-solar.org

- Service to the chapters
- Chapters keep full control over the website
- Help with setup give training, how to maintain, get their information out, make SEO, surrounding community can find their events, calendar widgets, share info how to support

# Advertisers want Valuable Info

- People are interested in clean solar and renewable energies.
- They are searching on Google, on their computers and phones.
- Google text-based ads are smart enough to insert relevant advertising on web pages

# ASES Makes Revenue

Less people watching TV, advertisers trying to reach target audience. (Insert pict of person w. ipad

- Great content Lots and lots of it
- Embedded advertisements
- Solar / Renewable / Business Online Advertising
- Chapters keep whatever revenue their site makes

## Open Source vs. Closed Systems



#### What is organic software?

As software companies go, we're a little unusual. We use the term 'organic software' to sum up the various ways we're different from the other guys:

Our most well-known product, Firefox, is created by an international movement of thousands, only a small percentage of whom are actual employees.



## **Open Source vs. Closed Systems**

### What is Open Source?



This might sound crazy at first, but bear with us: we believe that the more people who know our "secrets", the better.

So, we exposed the Firefox source code – the very nuts & bolts of what makes it all work – to the world and encouraged everyone to have a look.

Some people saw things to improve and made the fixes. Others had ideas for new features and made them happen. And others yet took that code, applied their own innovations and built completely new (and amazing) products.

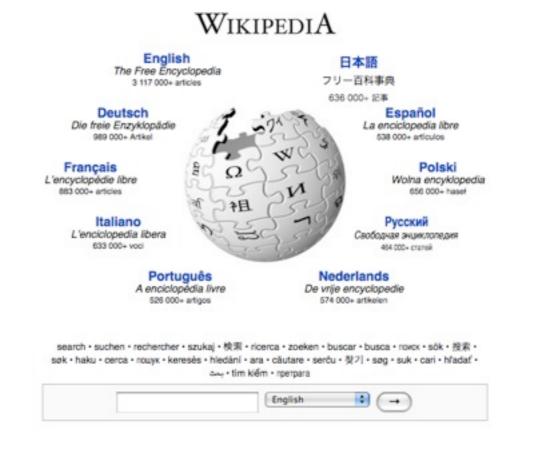
The moral of the story? Being open means good things will happen. Anyone can peek behind our curtains...in fact, there really aren't any curtains at all.





# Online Communities

- Have a question?
- Search for an answer
- Wikipedia



- Anyone can edit. People are constantly contributing.
- Fairly reliable source of information based on the strength of many OPEN

### Solar Today 1988, 1995, 2003

- Letters to the Editor
- ASES News
- Chapter News / Members
- Resources
- Education News
- Marketplace (small business) / Professional Listings
- Industry News
- Calendar
- Reader's Forum



## Solar Today 2011

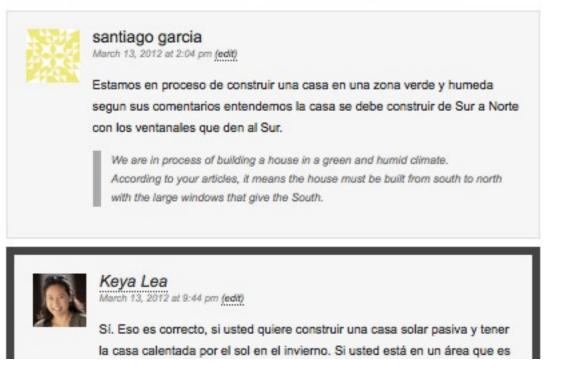
- No Letters to the Editor
- What's New / Advances
- Perspective
- Investing
- Local (Milwaukee)
- Case Study / Analysis
- Inside ASES, highlighting chapter.
- 2013 Buyer's Guide, many opt not to be listed, ASES Business Supporters at the last section, some not in category.
- All website comments closed.

Closed

## Open Websites Encourage Information Exchange

### One page has comments from:

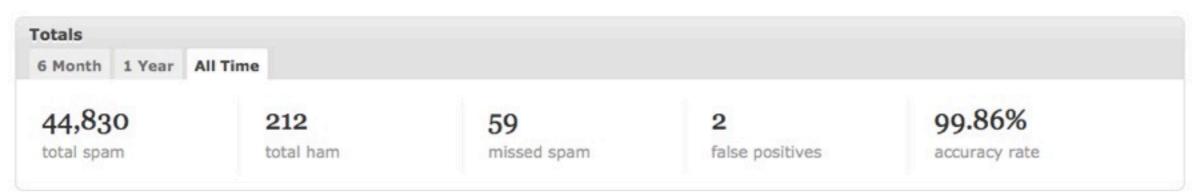
19 comments for "Orientation / South Facing Windows"

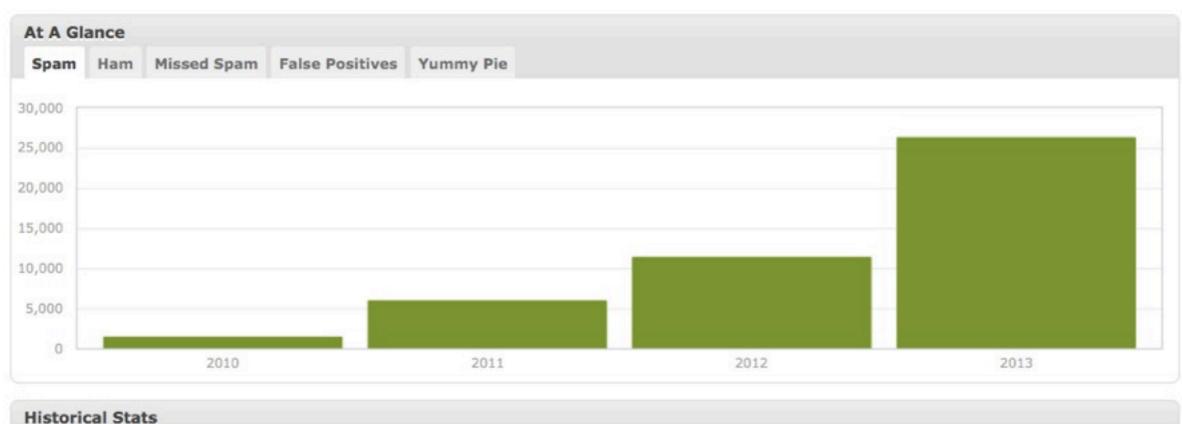


- Texas
- Massachusetts
- Leh, India
- Winnipeg, Canada
- Bella Vista, Buenos Aires

It's in a public format, so people can read what others have done or written, to learn, share and participate.

### With the right plugin (Akismet) spam is stopped.





	Spam detected	Ham detected	Missed spam	False positives
2013-10	864	1	1	0





## Leave the Dark Side Behind Take a Successful Road Trip

# The Internet

• Website setup to harness many



- Content is King
- Amplification of Information



Spreading messages easy. Let others comment, ask questions, share information



## One Year

- Transform ASES' position in the community to one of a leader of solar and renewable energy information
- Fulfill the mission
- Build the website, put all of the information: 59 years including 43 scientific conferences, 26 years of Solar Today, policy reports online, SEO accessible
- Build a structure on open communication / harness volunteers.
- Regain financials, regain trust of donors, get back into an office.

# ASES Rocks On!

- Web
- Solar Today Paper Magazine
- Conferences Science & Research
- Solar Tour Home Outreach
- Local Chapters Support Local
- Business / Professional Members