

>>> NEWS FLASH! <<< #####

HAPPY NEW YEAR EVERYONE!

FIRST REGIONAL PUBLIC CHARGING STATION OPENS!
(Details & pictures are below in the Watt's Up? column.)

ALSO - There's a national campaign to call president
Obama on January 21, 2009 to request an end to subsidies
for fossil fuels and investment in energy efficiency and
renewable energy. Please drop by the ATC website
<<http://ElectricNevada.org>> and review the CLEAN CALL TO
ACTION ALERT in red at the top of the page. Please join
thousands of organizations from across the country as
their members call the new president to request action
on America's energy future. And remember:
If >>>you<<< don't make that call, who will?

[Editor's note: You may want to read part 1,
"Leadership and Apathy" of the "Transportation and
Energy in the U.S." series in this month's Watt's Up?
column below for more talking points when you call
the president's office.]

END - NEWS FLASH - END

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NEXT MEETING

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Thursday, January 22, 6:00 - 7:30 p.m. at the Northwest Reno Library, 2325 Robb Dr, Reno. Click on the following link for a map: <http://tinyurl.com/47mthm>

The presentation, Barrier Busting - Thinking Outside of Government Incentives for Accelerated Renewable Energy Growth will discuss renewable energy payments (REPs,

aka as feed-in laws), a policy tool used extensively in Europe (and rapidly gaining a foothold in North America) that allows equal access for everyone to become a renewable energy producer. Find out more about REPs here <<http://tinyurl.com/89jo57>> and here <<http://www.allianceforrenewableenergy.org>>. A question and answer period will follow the presentation plus a special announcement!

We are also beginning the process to get John Wayland and his White Zombie <<http://www.plasmaboyracing.com>> into Hot August Nights. We'll have a report on that project as well.

EVENTS CALENDAR ###
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Sunday, April 19th 2009, Earth Day!
EVs will be on display at Nevada Econet's Earth Day on Sunday, April 19th 2009 from 10 am - 5 pm. If you'd like to display your EV, bike, or other alternative form of transportation please contact Bob at 775 826-4514. There is no charge to participate in this event. Volunteers needed to help build displays and for setup as well.

MEETING REVIEW ###
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We took the holidays off. At the last meeting we discussed several issues including public charging stations. Representatives from Bicycle Bananas dropped by and showed us a couple of new electric bicycles. Please contact Mike at (877) 612-5914 or visit their website for more information:
<http://www.bicyclebananas.com>

LISTSERVS - GET INFORMED VIA EMAIL ###
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Alternative Transportation Club (ATC) general local listserv. Discuss EV news and EVents here <<http://tinyurl.com/3xs4jk>>.

Electric Vehicle National Discussion List, founded in 1991, click on the following link for more <<http://www.evdl.org/>>.

[Editor's note: Be sure to select the "digest" option instead of individual emails as this is a very busy list and will fill up your inbox quickly! Or, if you prefer to not receive emails you can read the list online.]

WATT'S UP? ###
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>>> NEWS FLASH! <<<

NORTHERN NEVADA HAS IT'S FIRST PUBLIC ELECTRIC VEHICLE CHARGING STATION!

Congratulations to the Truckee Meadows Community College (TMCC) for it's initiative! On 12/14/2008 Keith Spradling of Keith's Kars provided a shiny red Zap Zeba sedan and Andrew Oxner of the Desert Research Institute, and EV G-Van owner, was on hand for the press conference. Representing TMCC were: math and science Dean, Ted Plaggemeyer; TMCC Media Relations Coordinator, Kelly Frank; TMCC facilities director, Dave Roberts. And very special kudos goes out to TMCC math instructor, Dick Farrell. It's my understanding that he initiated the process of getting the charging stations installed and saw it through to completion. Dick, on behalf of the over 500 ATC members and interested people in northern Nevada: Thank you, job well done, northern Nevada now has its first public electric vehicle charging station!

At TMCC there are two reserved spots for EVs. For a map follow this link <http://ElectricNevada.org/download/tmcc_charge_map.pdf>. Both spots are equipped with 120vac 15/20amp duplexes in weatherproof 'J' boxes attached to parking style meters that activate the outlets at the rate of 10 cents per hour. You can view pictures of the new charging stations by following these links: <http://ElectricNevada.org/download/tmcc_charge.jpg> & <http://ElectricNevada.org/download/tmcc_charge1.jpg> & <http://ElectricNevada.org/download/tmcc_charge2.jpg>.

EVs >>>> Charging America's Future! <<<<<

END - NEWS FLASH - END

WATT'S UP?

TRANSPORTATION & ENERGY IN THE U.S. - THAT'S WATT!

by Bob Tregilus, ATC Co-chair

The following article begins a three part series on United States leadership in transportation and energy policy. The first part of this series will take a look at where we are now and how we got there. The second part will focus on cutting edge renewable energy policies (at least cutting edge for us, much of the rest of the world has left us in the dust on effective policy tools for accelerating renewable energy growth). And the final installment will bring together transportation, energy, and buildings - three sectors of society that have traditionally had little to do with one another - into what's been dubbed the "smart-garage".

TRANSPORTATION & ENERGY IN THE U.S.

Part 1 - Leadership and Public Apathy

[Author's note: While it's my intention to "sound the alarm" in the following article in no way do I wish to marginalize the unrelenting efforts of thousands who have fought long and hard at the local, state, and federal levels, to achieve advancement in renewable energy growth in the United States. Clearly, the political environment in which these heroes of our society have labored was anything but friendly. Compromise until it hurt, was the order of the day for over twenty years. However, beginning on January 20, there is a new opportunity to start afresh, to make a great leap forward and begin rebuilding America. But as I posit in the article below - we can not rely solely on our leaders to do the right

thing. We must learn, we must engage our neighbors, and we must act by taking part in the political process and guide the hand of government to enact policies that are in the public interest - as the only response to organized money, is an informed, organized, and active populace. BT]

I'm fortunate in that I have an email-pal who's a former director of the National Judaical College in Reno. I met him some time ago while I was engaged in a campaign involving constitutional issues. As a retired lawyer, judge, legal professor and now voracious consumer of internet media, I couldn't ask for a better person to filter and send me only the best national and international newspaper articles.

One piece I received recently from my email-pal was an editorial from the Los Angeles Times entitled, "Is the Bush administration criminally liable for its lawlessness?" In the article the editors made the case that Bush Administration officials, such as Dick Cheney and Donald Rumsfeld, should *not* be held criminally accountable for "flouting national and international conventions against torture and spying."

I felt compelled to reply, but not as you might expect.

The tone of the oped brought to mind the words of a certain political commentator from the middle of the last century. In his 1955 book, The Public Philosophy Walter Lippmann wrote:

"With exceptions so rare that they are regarded as miracles and freaks of nature, successful politicians are insecure and intimidated men. They advance politically only as they placate, appease, bribe, seduce, bamboozle or otherwise manage to manipulate the demanding and threatening elements in their constituencies. The decisive consideration is not whether the proposition is good but whether it is popular - not whether it will work well and prove itself but whether the active talking constituents like it immediately."

My response letter to the LA Times' editor featured Lippmann's quote and my conclusion that: "Clearly, our entire political system failed us, as The Times suggests. But in the end, it is we who are ultimately culpable in these crimes against foreign citizens and our Constitution."

Whether you agree or disagree with the failures or triumphs of the last eight years is not what I'm examining in this article. Rather, the salient point I'm attempting to make is: There was little to no public dialog - and what little dialog took place it was punctuated by nonconstructive partisan bickering - over extra-Constitutional legislation such as the USA PATRIOT Act of 2001, the Authorization for Use of Military Force Against Iraq Resolution of 2002, the Military Commissions Act of 2006, as well as other policies enacted in the wake of the horrific events of 9/11. Literally, a nearly disengaged public sat idly by while the checks and balances that are the foundation of our representative democracy were dismantled by "insecure and intimidated" politicians.

In my view, and besides the possibility of a clandestine agenda, the foremost consideration on our representative's minds was "not whether [a certain policy] will work and prove itself," as Lippmann wrote, "but whether the active talking constituents liked it immediately".

Of course, those constituents are us, and it is us, that I'd like to engage in a public dialog on transportation and energy policy.

While we've been rightfully distracted by a myriad of pressing issues much of the world has been quietly pursuing advanced automotive technologies and cutting edge renewable energy policies. Our disengagement from civil life has cost us our position as world leaders in these critical sectors.

For example, several years ago Germany bolstered their already decade old renewable energy feed-in laws.¹ Today gentle German breezes and cloudy skies as well as other renewable resources produce over 15 percent of that nation's electric energy.² Just last December the United States finally caught up with tiny Germany matching their 22,000 MW of installed wind generation capacity.³ And although the announcement, the day after Christmas, made for a wonderful belated gift - and it was a tremendous achievement considering the recent political climate as well - we are still far behind Germany who has 3.7 times more wind generation capacity per capita than the United States.⁴ Also, the spike in wind development in the U.S. may be at risk. According to a recent Business Week article the federal subsidies program known as the production tax credit (PTC) may no longer stimulate growth:

"Alternative energy producers aren't yet showing profits and, instead of using those credits themselves, have had to rely on selling them to industries that needed the credits to offset big profits. The primary consumers of those credits had been financial-service firms that have much less need for them since taking enormous losses related to risky assets held on their balance sheets. Hence, the market for those tax credits has largely dried up."⁵

An alternative to both the PTC and investment tax credit or ITC (used primarily in the solar industry) is a feed-in law that creates premium renewable energy payment (REPs) rates for producers. In the second part of this series we'll focus on REPs which allow everyone, on an equal basis, to become renewable energy producers. You don't have to have a large tax liability to participate. (REPs will also be the topic of this month's meeting as well.)

Germany also consumes nearly 50% of the world production of photovoltaic (solar) panels.⁶ Solar manufacturing in Germany will have increased fourfold from 2005 to 2010 when once the United States was the leader in PV manufacturing, as of the end of 2006 we only had an 8 percent market share - and the renewable energy industry in Germany employees nearly 250,000 with 500,000 expected by the end of the next decade.^{7,8,9} Not surprisingly, Germany is also the third largest producer of solar cells behind China and Japan.¹⁰

Transportation is another sector in which we have lost ground. With the exception of a handful of Tesla Roadsters, and a couple of NEVs and city cars, the rest of the world is blowing by us in the plug-in car market. While Detroit flies, with hat in hand, to Washington in their private jets China is already selling the first production built plug-in electric hybrid vehicle (PHEV) in the world. Meanwhile, Chevy won't have the Volt on showroom floors until - maybe - late 2010 or more likely early 2011. By the way, the Chinese model is cheaper and goes further on a charge than the GM product.¹¹

In the all important world of storage batteries a consortium of 14 American manufacturers, including 3M Corp. and Johnson Controls Inc., have just announced they formed an alliance to build an advanced Li-ion battery plant in the United States. With hat in hand, they've trundled over to Washington to beg for the \$1 - \$2 billion necessary to build a manufacturing facility in the U.S. At this time there's no indication on whether they have a business plan, other than securing

taxpayer handouts.^12

Meanwhile, Asia has already been building batteries for a number of years. Without emergency assistance from their governments, already profitable manufacturers and automakers are partnering up in a number of efforts and are in the process of expanding existing facilities and building new ones.^13

I for one am becoming increasingly concerned over the U.S. corporate tendency to socialize start-up capitalization, privatize profit, and socialize loss while CEOs and board members make little to no sacrifice. Economics really makes my head-hurt, but really, does that sound like a sustainable business model or is the Cheshire cat grinning as America tumbles down the rabbit-hole?

Next time: The global success of renewable energy feed-in laws.

How's Zap?

Bob

Notes:

1. Marcus Maedl, "The German FIT for Renewable Energy -- A Bargain!" Renewable Energy World.Com, April 14, 2008, <<http://tinyurl.com/6p4o8t>> (accessed on 1/10/2009).

2. German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety, "Development of renewable energy sources in Germany in 2007 - Graphics and tables" updated June 2008, <<http://tinyurl.com/9zds9r>> (accessed on 1/10/2009). Note: The actual figure from the report is 14.2 percent. Calculations by other authorities accounting for projects expected to come on line by the end of 2008 suggest that figure will be between 15 - 17 percent.

3. American Wind Energy Association, "American Wind Energy Association (AWEA) notes Top Wind Industry Accomplishments of 2008" 12/22/08, <<http://tinyurl.com/796au2>> (accessed on 1/11/2009).

4. Environmental news Service, "U.S. Edges Out Germany as World Wind Power Leader," 12/26/08, <<http://tinyurl.com/a7mnfr>> (accessed on 1/11/2009). Calculation is based on a German population of 82.3 million and the U.S. population of 303 million (July 2008 figures collected from the internet).

5. David Bogoslaw, "Infrastructure Boom: Potholes Ahead," Business Week for 1/6/2009, <<http://tinyurl.com/8g7kzb>> (accessed on 1/11/2009).

6. International Energy Agency (IEA), "Trends in Photovoltaic Applications 1992 - 2007," August 2008, <<http://tinyurl.com/83rgyh>> (accessed on 1/11/2009).

7. Dr. Jeffery Michel (Germany), "Germany's Strategic Transition to a Renewable Energy Society," Germany's Transformation into a World Leader for Renewable Energy sponsored by the Energy Conversation, October 20, 2008, <<http://tinyurl.com/axkxoz>> (accessed on 1/11/2009). Also, personal communication.

8. Jonathan Bardelline, "Renewable Energy jobs Growing Worldwide: Study" GreenBiz.com, July 11, 2008, <<http://tinyurl.com/8ls3ft>> 9accessed on 1/11/2009).

9. Richard McCormack, "U.S. Is Virtually A Non-Player In The Solar Power Production Business," Manufacturing & Technology News, 1/10/2008,

<<http://tinyurl.com/8sgfv6>> 9accessed on 1/11/2009).

10. Jane Burgermeister, "What's Next for the German Photovoltaic Industry?" Renewable Energy World.Com, September 9, 2008, <<http://tinyurl.com/9e5zec>> (accessed on 1/11/2009).

11. Michael Richard, "GM is Weeping: BYD F3DM Plug-in Hybrid Goes On Sale in China, 3 Years Before Volt," Treehugger, 12/15/2008, <<http://tinyurl.com/6cfexg>> (accessed on 1/11/2009).

12. Rebecca Smith, "U.S. Firms Join Forces to Build Car Batteries," The Wall Street Journal, 12/18/2008, <<http://tinyurl.com/8tyqzm>> (accessed on 1/11/2009).

13. Bill Moore, "Short Supply: American-made Electric Car Batteries," EVWorld, 12/7/2008, <<http://www.evworld.com/article.cfm?storyid=1593>> (accessed on 1/11/09); & Jeremy Cato, "Car batteries a matter of national security," Globe and Mail, 12/17/2008, <<http://tinyurl.com/754mnb>> (accessed on 1/11/2009).

FEATURED ALTERNATIVE TRANSPORTATION WEBSITE ###
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1) SMART GARAGE - CONNECTING THE FUTURE

"In this time of economic uncertainty, Smart Garage is an important national opportunity to build out a new, green infrastructure in the U.S. Bringing together electrified vehicles, energy-positive buildings, and a smarter and cleaner electricity grid will generate jobs and wealth, while decreasing our dependence on oil and greenhouse gas emissions," said Michael Brylawski, cofounder and leader of the Rocky Mountain Institute's MOVE (MObility + Vehicle Efficiency) team."

[Editor's note: The smart-garage is what the three part series above is ultimately about. merging smart-grid and vehicle-to-grid into the smart-garage is America's energy future.]

View the website here:
<http://move.rmi.org/capabilities/smart-garage.html>

2) ALLIANCE FOR RENEWABLE ENERGY

"ARE, the Alliance for Renewable Energy, with a focus on North America, is an alliance of policymakers, renewable energy experts, citizens, research institutions, and large and small businesses that came together in the Spring of 2008. Our goal is to rapidly increase the shift from fossil fuels to clean, renewable energy. Our strategy is to create awareness of and build support for 'the world's most effective renewable energy policies'— Renewable Energy Payments (REPs)."

[Editor's note: This is the topic of this month's meeting and the second part of the three part Watt's Up? series, "Transportation and Energy in the U.S."]

View the website here:

<http://www.allianceforrenewableenergy.org>

EVs IN THE NEWS ###
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3) OBAMA MAY ADOPT ISRAELI ELECTRIC CAR

"The incoming Obama administration is "closely monitoring" the innovative electric car project being developed by Israel's Better Place company, "and may be adopting it," Idan Ofer, chairman of Better Place, has told The Jerusalem Post."

Full article here:
<http://tinyurl.com/3fykxo>

4) PHOTOS: PLUG-IN VEHICLES ON PARADE!

"A parade of 74 plug-in vehicles really makes you realize how entirely silent electric cars are. We just stopped by Plug-In America's parade on Saturday morning in Santa Monica, Calif., which celebrated the upcoming presidential inauguration, and the procession would have been almost eerily silent, if the participants weren't all happily cheering. The trade group says the parade was one of the largest gathering of plug-in vehicles ever."

Full article here:
<http://tinyurl.com/7qznyt>

5) WORLD'S FIRST MASS-PRODUCED PHEVs - IN CHINA

"The questionable quality of Chinese cars has been the butt of many jokes, but it looks as though BYD Auto of Shenzhen, China, might be having the last laugh. On Monday [12/15/08], BYD Auto began selling the first mass-produced plug-in hybrid car in the world."

[Editor's note: While we've have been debating "drill-baby-drill" the rest of the world is passing us by in renewable energy - and now plug-in cars.]

Full article here:
<http://tinyurl.com/3wbph7>

6) FEARS FADE ON HYBRID BATTERIES

"Hybrid critics have long said that the cost of a new battery, if it failed after the car's warranty expired, would quickly wipe out an owner's years of savings on gasoline. The argument was not unreasonable, given the high (and at first, uncertain) cost of the battery packs, which had yet to prove their durability in real-world driving. That situation has changed since hybrids went on sale in the United States a decade ago."

[Article contributed by Mark Harris.]

Full article here:
<http://tinyurl.com/4uk54x>

7) NEIL YOUNG ON GAS GUZZLERS: LONG MAY YOU RUN

"The rock legend has created a company called Linc Volt Technology to promote the conversion of existing gas-guzzling cars into vehicles that run on alternative energy."

[Article contributed by Mike Galeoto.]

Full article here:
<http://tinyurl.com/4cfah5>

8) ALL-ELECTRIC MINI-E GETS TRIAL IN USA

"The 204 hp all-electric Mini Cooper is finally coming to America, although only in a limited run. Limited as in, 500 cars. Yep, just 500 lucky customers spread out in 3 states (California, New York and New Jersey) will be able to lease this beautiful piece of engineering. BMW it's only leasing to "select private and corporate customers". So apparently, this is just a trial run for BMW where they're trying to get a feel for how the car will do in the US market."

[Article contributed by Neal Peters.]

Full article here:
<http://tinyurl.com/3kgu2o>

9) UNO ELECTRIC MOTORCYCLE, OR MOTORUNICYCLE

"Dubbed the Uno, this crazy Segway / crotch rocket hybrid is the result of teen, Ben Gulak's preternatural engineering skills combined with his desire to help the environment. This "motorUnicycle" actually has two wheels, side by side, and is reportedly easy to ride. Pictured above is an actual working prototype that weights about 120 lbs and runs for about 2.5 hours on an electric motor."

[Article contributed by Andrea Tice.]

Full article here:
<http://tinyurl.com/5ab29v>

10) AUTO INDUSTRY SEES BRIGHT FUTURE FOR EVS

"Major auto companies worldwide see electric cars in their future, and a lot of motorists are driving them today, mostly in the form of gas-electric hybrids."

[Article contribute Mark Harris.]

Full article here:
<http://tinyurl.com/8x852h>

11) TECHNOLOGY LEVELS PLAYING FIELD IN RACE TO MARKET EV

"Last month, BYD began selling a plug-in electric hybrid car in China, at least a year ahead of similar efforts in the U.S. and Japan. The car, called the F3DM, plugs into a home outlet and comes with a small gasoline engine that can recharge the battery on the go. It is the first of an array of electrified cars BYD plans to introduce around the world, starting in China and then in the U.S. and Europe as early as 2010."

[Article contributed by John Satterfield. Editor's note: This is a particularly good article from the Wall Street Journal highlighting my thesis that America is falling behind in technology in the Watt's Up? column.]

Full article here:

<http://tinyurl.com/98qknz>

12) HYBRID AIMS TO STAY TOP EMERGING FORMAT

"DETROIT -- Electric vehicles may have stolen the spotlight at this year's Detroit auto show, with many of the world's top auto makers promising to charge into the future with lineups of flashy, emission-free green cars. But Toyota Motor Corp. and other auto makers are seeking to ensure that gasoline-electric hybrids remain the dominant ecocar in the years ahead."

[Article contributed by John Satterfield.]

Full article here:

<http://tinyurl.com/79kdtq>

13) URGENT: CALIFORNIA PLANS TO REGULATE PHEV CONVERSIONS

"In the midst of all the excitement about new plug-in vehicles at the Detroit Auto Show and a new administration in Washington, momentous developments are brewing in California that could seriously threaten the viability of the nascent industry that's converting hybrids to plug in."

[Article contributed by Felix Kramer.]

Full article here:

<http://www.calcars.org/calcars-news/1039.html>

13a) AUTOMAKERS ALL CHARGED UP OVER ELECTRIC CARS

"Just a few years ago, the world's automakers took a scattershot approach to the growing need for alternative-fuel technologies, pursuing strategies for everything from hydrogen fuel cells to ethanol, biodiesel and natural gas."

[Article contributed by Glee Willis.]

Full article here:

<http://www.msnbc.msn.com/id/28659906>

EV VIDEO CLIPS ###
#####

14) ELECTRIC CAR PILOT FOR UK ROADS

"The government is set to announce a pilot scheme to test electric cars on Britain's roads in three cities."
[Video contributed by Neal Peters.]

Video here:
<http://news.bbc.co.uk/2/hi/science/nature/7691807.stm>

15) ELECTRIFIED

"Electrified the series is geared up to show WealthTV's progress on our electric Porsche conversion. See our update along with some other innovations in the EV market."
[Video contributed by Pete Eckhoff. Editor's note: This is a great video. It covers all the basics. Great shots of cars and parts.]

Video here:
<http://tinyurl.com/9nvdq2>

16) BIG 3 PLUG ELECTRIC CARS AT AUTO SHOW

"Rather than focus solely on muscle cars, embattled U.S. automakers General Motors, Ford, and Chrysler touted a coming generation of electric vehicles at this year's North American International Auto Show in Detroit."

Video and article here:
<http://tinyurl.com/82sa3l>

17) WARREN BUFFETT-BACKED ELECTRIC CAR MAKES DETROIT DEBUT

"CNBC's team at the Detroit Auto Show shot some video of the [Chinese BYD PHEV backed by Buffett], described by the manufacturer as a "mid-size five passenger crossover vehicle" with a range of about 250 miles on a single charge."

Video and article here:
<http://www.cnbc.com/id/28626565>

ENERGY NEWS ###
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18) RUDDY-CHEEKED FARMERS ACHIEVE GREEN-ENERGY INDEPENDENCE

"Freiamt [Germany] residents produce 17 percent more electricity than they use, boosting their bottom line and proving that green isn't just for geeky idealists."

Full article here:

<http://tinyurl.com/6msoqc>

19) MINNESOTA FEED-IN LAW COULD LOWER RE COSTS

"Several European countries and the Canadian province of Ontario have recently adopted feed-in tariffs, a mandated, long-term premium price for renewable energy paid by the local utility company to renewable energy producers. A new study by the Institute for Local Self-Reliance (ILSR) shows how feed-in tariffs could turbocharge Minnesota's renewable electricity standard, reduce costs, and spread the economic benefits across the state."

[Editor's note: The Minnesota law discussed in this short brief is the one I have used as a model for a feed-in law in Nevada.]

Full article here:

<http://www.newrules.org/de/feed-in-tariffs.pdf>

20) FEEDING THE GRID RENEWABLY (PRIMER)

"Feed-in tariffs, often called Standard Offer Contracts or Renewable Energy Payments in North America, have been demonstrated to be the most effective policy mechanism that a country can use to foster the rapid development of renewable energy systems. Close to two-thirds of the world's wind energy and half of the solar PV systems have been installed as a result of these innovative policies.

"This primer, the first in the Making Renewable Energy a Priority series, introduces the reader to the key elements of feed-in tariffs and the ways in which they function to achieve rapid renewable energy deployment."

Full article here:

<http://re.pembina.org/pub/1599>

21) FEED-IN TARIFFS AND RENEWABLE ENERGY IN THE USA

"Feed-in tariff policies have driven rapid renewable energy growth for electricity in Europe, but have not been widely adopted in North America to date. This paper reviews the experience of six US states which have introduced feed-in tariff legislation, surveys feed-in tariff proposals in eight other states, and discusses the outlook for Community-Based Energy Development policies, which have the potential to be implemented in a way that is similar to feed-in tariffs."

Full article here:

<http://postcarboncities.net/node/3987>

22) U.S.A. IS VIRTUALLY A NON-PLAYER IN THE SOLAR POWER

"The United States invented photovoltaics -- the direct conversion of sunlight to electricity -- but its industry is falling far behind the rest of the world in production and in installations, according to the Earth Policy Institute. In 2006, U.S. producers manufactured only 154 megawatts of PV systems, or 8 percent of total world production of 2,521 megawatts. That percentage is expected to decrease in 2007, as production throughout the world, especially in China, surged by more than 50 percent to 3,800 megawatts."

Full article here:

<http://www.manufacturingnews.com/news/08/0110/art1.html>

CLASSIFIEDS ###
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Bombardier NEV For Sale:

I need my driveway space and want to sell my cute little NEV am asking \$4,000. The Bombardier is 8.3 feet long, 4.6 feet wide 5 feet tall. Weighs about 1,276 pounds with batteries. Non-skid material in footwells is intact. Hand parking brake. In-body charger. Two seat belts with three point attachment. Turn signals, horn, parking and head lights, a full set of canvas and plastic side and back covers with plastic windows, trunk, glovebox, four wells for drinking glasses or soda cans in the front dash area, two bucket seats the undercarriage in fine shape, The tire size is 145R12. The motor, is DC shunt 72 volt, air cooled, 5 hp continuous up to 20 hp peak, the charger is an integrated 110V 15 A unit with 12V auxiliary battery charger. I replaced the original dead 300 amp controller with the factory upgrade kit it now has a 400 amp Curtis unit, with regenerative braking. Seats: The plastic of the seats do not have any rips or tears with the exception of a small one on the driver side seen in photo. For being ten years old, they are in great shape. The seat bottoms are lifting a bit from the metal edge of the seat bottoms (see photographs) and the underlying foam can be seen a bit. Batteries: The vehicle needs new batteries and requires six deep cycle 12V batteries 80 up to 120 ah and one small 12 volt battery for the dashboard electronics, lights etc. Originally, Bombardier made these units so the batteries had to be serviced from underneath, requiring a car hoist on which to lift them. Although you could modify it for top access. NEVs: Neighborhood Electrical Vehicles are a category of vehicle that is street legal but can only be used on streets with speed limits of 35 miles per hour or less. The Bombardier NEVs were made for only about three years, 1997 to 1999. To the best of my knowledge, only one Bombardier NEV parts supplier exists in the United States, and that is Peacock in Michigan.

<http://www.peacockltd.com/miscpage_002.asp>. Because it was originally owned by the University this NEV was never registered in Nevada. I have the factory title and will transfer to a new owner. Follow these links for pictures:

<<http://www.electricnevada.org/download/photo1.jpg>>

<<http://www.electricnevada.org/download/photo2.jpg>>

<<http://www.electricnevada.org/download/photo3.jpg>>

<<http://www.electricnevada.org/download/photo4.jpg>>

Call Bill Brinsmead, 775 784-1502, or email billb@physics.unr.edu.

1986 Honda Accord Conversion Candidate:

Electric car enthusiasts! I have a 1986 Honda Accord LX that I have been told is dead. My mechanic said the engine is gone, however, since I have put nearly \$3000 into this thing in the past year, I would like \$300 for it and would like to see it be converted into an electric. The body is in good shape (no accidents) and the interior is in good shape (never smoked in). I am the third owner and it has always been well maintained (if this makes any difference for a conversion!) Please feel free to contact me for further information or to see it. Vicki (775) 379-2122 or vklinn[AT]gmail.com

Altrax AXE 4844 24-48vdc 400 amp programmable controller:
For series wound or permanent magnet motors. More info here
<http://www.alltraxinc.com/Products_AXE.html> Brand new. \$350.00 obo. Call Bob 775 826-4514.

StarTech 5 Port 10BaseT Network Micro Hub:
I have a bunch of these. They are brand in in the box with full documentation. I'll sell them in quantities of one and up. quantities\$5.00 each, discount with quantities. Follow this link for more details and a picture
<<http://tinyurl.com/a5e5hl>> Call Bob 775 826-4514.

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WHO WE ARE, SUBMISSIONS, & LEGAL ###
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ELECTRIC AUTO ASSOCIATION (EAA) ###
The Alternative Transportation Club (ATC) is a chapter of the Electric Auto Association whose mission, in part, is "to act as a public source of information about developments in electric vehicle technology, to encourage experimentation in the building of electric vehicles, and to organize public exhibits and events of electric vehicles to educate the public on the progress and benefits of electric vehicle technology."

Please support the Electric Auto Association (EAA)! You may join by visiting the national EAA website <<http://www.eaaev.org/eaamembership.html>> or by sending \$39.00 (\$25.00 seniors) to:
Electric Auto Association
Membership Renewals
323 Los Altos Drive
Aptos, CA 95003-5248

Your donations are tax deductible. The Electric Auto Association (EAA) is a non-profit organization [501(c)(3)] for the promotion of Electric Vehicles. You will receive the very informative EAA publication, Current Events.

Alternative Transportation Club, EAA officers are:
Bob Tregilus - Co-chair / ATC web & eNews editor
Chuck Swackhammer - Co-chair
Peter Fletcher - Treasurer
Secretary - vacant

SUBMISSIONS ###
Your article contributions and letters to the editor are welcome! Please submit

original articles to Bob Tregilus: atc[AT]electricnevada[DOT]org. In the interest of accuracy you are requested to provide citations for any facts stated in your article(s). This is a "plain text" eNewsletter and as such no photographs can be published although we can certainly link to them at another location. All contributions maybe edited for length and clarity. They may be messed-up by mistake as well. Warning: dyslexic editor at work!

COMMENTS

Please call 775.826.4514 or email your comments to Bob Tregilus at atc[AT]electricnevada[DOT]org.

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This eNewletter was created using Openoffice on a computer running the GNU/Linux operating system. There are better alternatives in the computing world as well!

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