

ALTERNATIVE TRANSPORTATION NEWS (ATC eNEWS)

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CONTENTS ###
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NEXT MEETING, April 23, 2009

EVENTS CALENDAR

MEETING REVIEW

LISTSERVS - GET INFORMED VIA EMAIL

WATT'S UP?

Transportation & Energy in the U.S.
Part 3, An Oily Matrix

FEATURED WEBSITES

- 1) Gav's EV Conversion
- 2) Welcome to Fun Run in the Sun!

EVs IN THE NEWS

- 3) Raser to Unveil 100 mpg SUV
- 4) Mapping a Global Plan for Car-Charging Stations
- 5) Electric Motorcycle Impresses Motocross Crowd
- 6) Designing electronic solutions with ultracapacitors
- 7) China takes on America in electric car race
- 8) Nissan Electric Vehicle Preview
- 9) Plug-in hybrids will cost just \$20,000 in a decade
- 10) PIA Gives \$60gs To College Teams Building Plug-ins
- 11) Peapod Photos & Update on Planned Model Launches
- 12) Mitsubishi Motors Confirms It Will Market i-MiEV in US
- 13) Electric Car Makers: Oregon Wants You

EV VIDEO CLIPS

- 14) Leena & Mike Take The Tesla Model S For A Test Drive
- 15) Elon calls NYT writer "a huge douchebag"
- 16) EV Innovations Inizio and Wave
- 17) Business: Start-Up Electric Car Companies

ENERGY NEWS

- 18) Why Germany is Starting a New Industrial Revolution
- 19) Solar energy giants discovering Ontario
- 20) The Rooftop Revolution
- 21) The Smart Grid Explained
- 22) How Smart?

CLASSIFIEDS

WHO WE ARE, SUBMISSIONS, & LEGAL

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ATC eNews

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NEXT MEETING

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Our next meeting is:

Thursday, April 23, 6:00 - 7:30 p.m. at the Truckee Meadows Water Reclamation Facility, 8500 Clean Water Way, Reno, NV (click <http://electricnevada.org/download/TMWRF_Map.pdf> for a map AND click <http://electricnevada.org/download/TMWRF_Map1.pdf> for an aerial photo of the meeting room location). Clean Water Way is just north of Mill Street off S. McCarren Blvd. You enter Clean Water Way at the UNR Farm (Nevada Agricultural Experiment Station) entrance and go all the way to the end (2.5 miles) where you arrive at the plant location. Continue forward (North) through the plant toward the Truckee River, curve to the right, past the two story warehouse where you'll see a double-wide trailer East of the warehouse (you made it!).

This month's meeting topic will be EV bikes & scooters and transportations options in the Tahoe region.

The guest speaker for our April meeting will be Paul Guttman M.D., who will tell us about EV bicycles, scooters, and alternative transportation initiatives he is working on in the Tahoe region.

Dr. Guttman is currently a professor of astronomy at Sierra College and is co-executive director of Space Science for Schools, a non-profit that's involved in a number of initiatives that further understanding and benefits of space science in society. To fund their effort, Dr. Guttman has creatively developed a program that benefits the environment as well - fund raising through the sales of electric transportation! Here's links to his websites <http://www.ss4s.org> & <http://ev-village.org>.

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EVENTS CALENDAR

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Thursday, April 16, 10:00am, Carson City, State Legislature

SAVE *THE* *DATE!* - *BREAKING* *NEWS!*

Alternative Transportation Club & Electric Auto Association of Northern Nevada

BREAKING NEWS! - SAVE THE DATE!

A Major - Nevada Based - Electric Vehicle & Renewable Energy Initiative Will Be Announced on Thursday Morning, April 16, 10:00am, at the Nevada Legislative Building, 401 S. Carson Street, Carson City, NV . . . details to follow early next week.

Save The Date --- As Electric Vehicle & Clean Energy Advocates - we need a strong turnout for the press conference at the legislative building in Carson City on Thursday morning - 10:00am!

Breaking News --- This initiative is focused on bringing Zero Emissions Vehicle (ZEV) & clean energy research and development to Northern Nevada. (Teaser - that's huge an understatement!)

Please - Save The Date - we're all stakeholders in this initiative. So take the morning off and come out to Carson on Thursday morning - be there as Nevada makes history - and jumps - with both feet - into the clean-tech age!

See you in Carson on Thursday!

Sunday, April 19th, 10-5pm, Idlewild Park, Reno NV
Nevada EcoNet's annual Earth Day Celebration!

Please contact Bob at 775 826-4514 (space is limited) if you plan to display your EV (trucks, cars, motorcycles, scooters, bicycles, barstools, or Burning Man electric art cars are welcome & it's free!) at the 2009 Earth Day!

Monday, April 20th, 5:00pm, UNR
Environmental Film Festival: Soylent Green at 5:00 pm in the Theater on 3rd floor of CSU [free, I think] - Featured Speaker Tom Hertweck, Literature & Environment Ph.D Student

Book & Clothing Swap: CSU lawn during the afternoon of the 20th (weather permitting)

Tuesday April 21st, various all day, UNR
Sustainable Practice Workshop Series: CSU Rooms 320 & 356 - 10 & 11 am, 1 & 2 pm

Community Mixer: Catering provided by UNR, EnACT, & Whole Foods 5:00 pm on 4th floor lounge of the CSU

Trashion Show: 7:00 pm Ballrooms A, B, C on the fourth floor of the CSU. Tickets are \$5 general public, \$2 students

Workshops include:

* International Water Issues in Africa: Debora Stiver, College of Business

* Life as a Locavore: Leslie Allen, University of Nevada Cooperative Extension Horticulturalist

* Teaching Sustainability Across the Curriculum, Faculty Workshop: Jen Huntleysmith, Academy for the Environment Associate Director of Academics and Outreach

* Panel Discussion on Alternative Transportation: Representatives from the Regional Transportation Commission & Alternative Transportation Club, EAA

* Campus Vermiculture Project: Environmental Studies 310 Students, Academy for the Environment

* How to Green your Business: Kevin Dick, Small Business Development Center

* Has Environmentalism Gone to the Dogs?' Best Bowser Biohazard Management Practices: Mark

Walker, Environmental Sciences Graduate Program Director

* Presentations by the Mackay School of Earth Sciences and Engineering

More to be announced! Check us out at <http://environment.unr.edu>

MEETING REVIEW ###
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ATC member tomofreno (aka Tom Wicker) discussed the physics and engineering considerations for electric transportation at our March 2009 meeting.

Tom has developed a wonderful spreadsheet - an electric vehicle calculator - that will help determine speed and range projections for various vehicles based on a number of variables such as battery chemistry, weight, and aerodynamics.

You can download the EV calculator by following this link: <http://tinyurl.com/dmtrwa>. Please send feedback, suggestions for improvement, or questions to tomofreno at: tomofreno2000[AT]yahoo.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.evd1.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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WATT'S UP?
TRANSPORTATION & ENERGY IN THE U.S. - THAT'S WATT!
by Bob Tregilus, ATC Co-chair

The following article is the final part of a three part series on United States leadership in transportation and energy policy. (To read parts one & two follow these links <http://www.electricnevada.org/newsletter/enews31.pdf> <http://www.electricnevada.org/newsletter/enews32.pdf>.)

I was asked to provide an essay for the Earth Day program in the Reno News & Review. So I'm offering that essay here as well as I think it covers pretty much what I wanted to say in this final part on transportation and energy in the U.S. - but in a more entertaining way. Given there will be major breaking news about EVs in Nevada this coming Thursday (4/16 - see the notice in the "events" section or at our webiste) I'll do a detailed write up and extrapolate what it all means for Nevada next time.

Part 3: An Oily Matrix

"Buckle your seatbelt Dorothy," Cypher urged Neo in the movie The Matrix, "because Kansas is goin' bye-bye."

You've been wallowing in an oily matrix: A matrix where millions of people are living out their lives oblivious to the reality that cheap and abundant fossil-fuels are a myth.

The true cost to society of the fossil-fuel economy is unbelievable.

What other industry has successfully lobbied for the passage of a Constitutional Amendment to insure a marketplace for their product? (More on that later.) What other industrial sector enjoys the advantage of having the president of the United States fly to foreign nations to negotiate a better price for their product? What other commodity receives the full protection of the U.S. Military by presidential decree? (See the Truman, Eisenhower, Nixon, Carter, and Bush Doctrines.) And in the case of that other fossil-fuel, coal: how is that mountain top removal is granted full immunity "wink-wink" from virtually every environmental law ever adopted? And then there's all that "wink-wink" public and civic corruption too. (See Michael Shnayerson's book, Coal River, for more on that.)

What about the human costs of our fossil-fuel addiction? Wars, lung diseases, poverty, labor injustices, oppression? And let's not forget about climate change.

But, to be fair, fossil fuels have also contributed to our quality of life. Aside from necessary industrial uses, plastics, and medicines - the nearly 50 percent, though, that is burned and blown out an exhaust-pipe is inexcusable, especially when there were and are much better alternatives.

Betcha didn't know electric vehicles (EVs) were the most popular horseless conveyance in the late 19th and early 20th centuries? How about Henry Ford's Model T: did you know it was designed as a "flex-fuel" vehicle? The 'T' was able to burn ethanol - readily available at nearly every family farm - when traveling in the countryside far from any gas station.

Gasoline was once considered a waste product as well. It was a huge problem for that oil tycoon and monopolist J.D. Rockefeller. Ohioans were getting really pissed about "Rocky" dumping gasoline in their rivers, tastes bad too.

Good old Rocky, yup, he cooked up a real good solution for the waste gas problem - fund the temperance movement - hell yes, he even got a Constitutional Amendment passed for his money! You see, Ford and that other genius, Thomas Edison, had teamed up by about 1908. We were well on our way to having electric cars in the cities and biofueled ethanol powered vehicles for longer trips in the countryside.

While ethanol production via Agra-business methodologies is unsustainable, at the permaculture scale alcohol fuel is quite attractive. But the oilies will have none of that. So the oil slime spew forth their propaganda: Do you believe people are starving because farmers are switching from food to fuel production? Hummm? (See David Blume's book Alcohol Can Be A Gas! to dispel that myth.)

Welcome to the world of the "real," where buildings, transportation, and the electric grid co-exist in a complementary synergy known as the "smart-garage." A world where our homes and businesses morph from energy-pigs into energy-producers; where utilities assume less of a role as electricity generator and become grid administrators; and our transportation - electric vehicles - are the gatekeepers.

EVs hold all the keys because it is there, in the EV's large battery packs, where you can store intermittent renewable energy from the sun, waves, and wind. Through vehicle-to-grid (V2G) technology, grid operators can siphon off surplus energy from an electric car's battery pack to offset a variety of ancillary services they would otherwise purchase at

great expense. With V2G, the power company may even send you a check!

So, like Morpheus in The Matrix, I'm offering you two choices: you can take the blue pill and when you wake-up you can believe whatever you want, or you can take the red pill and open your mind to an amazing new world. A world without the lies of oil company tycoons and the treachery of mad-men at the levers of imperial machines. A world of cleaner energy, clean-tech jobs, and clean and quiet plug-in transportation - Charge, Baby, Charge! - Happy Earth Day!

How's Zap?

Bob

FEATURED ALTERNATIVE TRANSPORTATION WEBSITE ###
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1) GAV'S EV CONVERSION

"People always seem surprised when I tell them I'm converting a car to run on electricity. My neighbour laughed, thinking I was joking! Many see it as unnecessary, and that could very well be true - if it was still 1986."

View the website here:

<http://www.kiwiev.com>

2) WELCOME TO FUN RUN IN THE SUN!

"Follow Charlie Garlow as he travels across the US in his solar-electric powered Extreme Bug-E. Charlie will be traveling with his dog puppy Rex, and will stop along the way to show the virtues of solar power and driving electric. In tow, will be a 1kw solar trailer to extend the vehicle's range. Charlie will be keeping track of his travels in Charlie's Blog which you can access from this website. The Journey will kick off in late May from the Capital Mall in Washington DC and finish up in California."

[Website suggested by EVJerry Asher, EAA Boardmember.]

Visit the website here:

<http://www.funruninthesun.org>

EVs IN THE NEWS ###
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3) RASER TO UNVEIL 100 MPG SUV

"Raser Technologies, Inc. (NYSE:RZ) announced today it will unveil a 100+ mpg SUV at the Society of Automotive Engineers (SAE) World Congress in Detroit, Michigan April 20-23, 2009. The Vehicle is powered by Raser's E-REV powertrain and was developed in conjunction with Raser's integration partner, FEV and a global automaker. The full-size SUV is a four-wheel drive Extended-Range Electric Vehicle (E-REV) designed to achieve over 100 mpg in typical local daily driving with near zero emissions by driving up to 40 miles per day in all-electric mode."

[Article contributed by Gary Hanneman.]

Full article here:

<http://tinyurl.com/cjpl2m>

4) MAPPING A GLOBAL PLAN FOR CAR-CHARGING STATIONS

"Years ago, when Shai Agassi started promoting his idea of service stations to recharge electric cars, the automotive world barely took notice."
[Article contributed by Glee Willis.]

Full article here:

<http://tinyurl.com/czwxpl>

5) ELECTRIC MOTORCYCLE IMPRESSES MOTOCROSS CROWD

"Savory was among 50 riders onhand to show the Zero X electric motorcycle is a real motocross machines, and he showboated the last few laps. He got big air off the jumps and threw dirt rooster tails over teammates gathered at the last turn of the half-mile track. With excitement mounting as the end of the unprecedented 24-hour race drew near, Savory launched the bike high in the air and nailed the landing before going head over heels."
[Article contributed by Jonathan Gould.]

Full article here:

<http://tinyurl.com/c7h9hb>

6) DESIGNING ELECTRONIC SOLUTIONS WITH ULTRACAPACITORS

"Over the last decade, advances in materials and construction techniques have transformed ultracapacitors from 'minor' backup components to extremely powerful energy storage solutions. Though they store a fraction of the energy of batteries, they can charge and discharge much faster, delivering hundreds of thousands of high-power pulses over their lifetime and easily outlasting the product into which they are designed. Ultracapacitors can be recharged as fast as they can be discharged and they can be stored at any level of charge, even completely discharged, with little effect on component life. Indeed, ultracapacitors have become a viable component for production-intent designs in the power electronics world. Further, many companies, recognizing the technical advantages and high availability of ultracapacitors, are already producing ultracapacitor-based systems."
[Article contributed by Lynae Marie.]

Full article here:

<http://tinyurl.com/ct9aw9>

7) CHINA TAKES ON AMERICA IN ELECTRIC CAR RACE

"The investment, which demonstrates a new commitment in China towards developing cleaner energy, almost matches the £1.6bn announced by President Barack Obama last week for US companies to develop plug-in vehicles."
[Article contributed by ATC co-chair, Chuck Swackhammer.]

Full article here:

<http://tinyurl.com/crzlpf>

8) NISSAN ELECTRIC VEHICLE PREVIEW

"Electric cars have been around since the dawn of the Automobile Age. Even then, electric propulsion was nothing new, having seen widespread use in interurban railways (what we'd call "light rail" now, nothing new there, either) and even heavy freight main lines. And in automobiles. The electric car was a serious competitor to internal combustion in the early days, as it was quieter, cleaner, and needed less maintenance. At the turn of the Twentieth Century, the land speed record was held by Belgian Camille Jenatzy, driving "La Jamais Contente" (translated: the Never Content) -- an electric car. Speed? A then-incredible 65 mph."

Full article here:

<http://tinyurl.com/dldpwt>

9) PLUG-IN HYBRIDS WILL COST JUST \$20,000 IN A DECADE

"According to Henrik Fisker, the auto industry is due for some big changes. As the only representative of a young automaker participating in the Newsweek Future of Automotive Panel Discussion at the New York Auto Show last week, Fisker was the voice of the insurgent. For example, he said that, in 2020, plug-in hybrids will cost less than \$20,000. This from the man who's selling them today for \$90,000. Another thing that will really change is the way that electricity is generated in America. It will be much, much cleaner, and it's this clean energy that will be what is used to get people to and from work and school. Looking at all the factors, and Fisker said that the next 24 months will be tremendously important for the green scene. "The car industry needs to reinvent itself," he said, "and it needs to happen now.""

Full article here:

<http://tinyurl.com/c75syg>

10) PIA PARCELS OUT \$60GS TO COLLEGE TEAMS BUILDING PLUG-INS

"EV and rechargeable hybrids advocate Plug In America says it has channeled \$60,000 in funds from the California Air Resources Board into a quartet of \$15,000 grants to student racing teams at four California colleges."

Full article here:

<http://tinyurl.com/dk8nk5>

11) FIRST PEAPOD PHOTOS AND UPDATE ON PLANNED MODEL LAUNCHES

"These first photos of the final production version of the Peapod neighborhood electric vehicle, to be launched on Earth Day (April 22) are exclusive to Green Car Advisor."

Full article here:

<http://tinyurl.com/cs7uz6>

12) MITSUBISHI MOTORS CONFIRMS IT WILL MARKET I-MIEV IN US

"Mitsubishi Motors said this morning that it, indeed, will build and sell the battery-electric i-MiEV city car for the U.S. and other global markets."

Full article here:

<http://tinyurl.com/d2yzw3>

13) ELECTRIC CAR MAKERS: OREGON WANTS YOU

"In a flurry of electric vehicle activity, three back-to-back announcements this week have placed a spotlight on Oregon's plans to be the friendliest state in the nation in which to build, sell and buy electric cars."

Full article here:

<http://tinyurl.com/cqcv62>

EV VIDEO CLIPS ###
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14) LEENA & MIKE TAKE THE TESLA MODEL S FOR A TEST DRIVE

"Michael and TechCrunch writer Leena Rao are currently at Tesla's showroom in Menlo Park, CA for a special event showcasing Tesla's new Model S sedan, which was unveiled last month. They're streaming live using Qik. They took a brief test drive - the first, the company says, with any press."

Video here:

<http://tinyurl.com/c8eqb2>

15) ELON 99% SURE OF DOE LOAN, CALLS WRITER "A HUGE DOUCHEBAG"

"Since it was announced that the highly quotable Bob Lutz would be departing from his GM management spotlight, automotive bloggers and reporters everywhere have been mourning the loss of an executive with such an exquisite way with words. Now it appears that the pining may be premature with the emergence of another top management type with the brass, it seems, to freely speak his mind in public. In an interview with Yahoo! Tech Ticker's Sarah Lacy, Tesla CEO Elon Musk was asked what he thought of an earlier New York Times piece that voiced opposition to a government loan for the electric car maker. With a huge smile indicating his delight in the opportunity to speak about the issue, Mr Musk said, "Randy Stross is a huge douchebag". After a brief pause he added, "...and an idiot." Take that, Mr. Fancy Pants reporter guy!"

Video here:

<http://tinyurl.com/dass8e>

16) EV INNOVATIONS INIZIO AND WAVE

"EV Innovations unveiled its own planned line of electric vehicles, starting with two models, the Wave and Inizio. The latter of the pair aims to be a Tesla Roadster competitor."

Video and article here:

<http://tinyurl.com/dyyh6v>

17) BUSINESS: START-UP ELECTRIC CAR COMPANIES

"At the New York International Auto Show, small start-up companies are fighting for traction in the slowly emerging electric car market. Lawrence Ulrich reports."

Video and article here:

<http://tinyurl.com/dx83a3>

ENERGY NEWS ###
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18) WHY GERMANY HAS THE INSIDE TRACK ON A NEW INDUSTRIAL REVOLUTION

"In 2008, even as Americans argue over whether renewable energy is a fantasy, Germany generated 14.2% of its electrical power from renewable resources. Already a leading player in so-called clean technology -- the mix of environmentally benign power generation and environmentally friendly technologies -- Germany may become the epicenter of the world's next industrial revolution: the triumph of clean, cheap, sustainable electricity."
[Article contributed by Paul Gipe.]

Full article here:

<http://tinyurl.com/d5gvkk>

19) SOLAR ENERGY GIANTS DISCOVERING ONTARIO

"A coming green-energy law and the promise of long-term incentives for producers of renewable power have put Ontario on the radar of some big-name solar companies looking for certainty in a volatile marketplace."

Full article here:

<http://tinyurl.com/c5tgo4>

20) THE ROOFTOP REVOLUTION

"This winter, as Congress was scrambling to pass the stimulus package, the bottom fell out of the renewable energy sector--the very industry that lawmakers have held out as our best hope of salvaging the economy. Trade groups like the American Wind Energy Association, which as recently as December was forecasting "another record-shattering year of growth," began predicting that new installations would plunge by 30 to 50 percent. Solar panel manufacturers that had been blazing a trail of growth announced a wave of layoffs. Some have since cut their workforces in half, as stock prices tumble and plans for new green energy projects stall."

Full article here:

<http://tinyurl.com/9twv7u>

21) THE SMART GRID EXPLAINED (Audio)

"The Smart Grid is an intriguing but elusive concept. What exactly do we mean when we talk about the intelligent grid? And where does renewable energy fit into the mix? In this podcast, we'll explore the technological and conceptual basics of the evolving grid."

Full article here:
<http://tinyurl.com/dlw3jy>

22) How Smart?

"The draft climate change bill released by House Democrats on March 31 calls on electric utilities to create a new infrastructure that will revolutionize the U.S. transportation system. Smart Grid technology will run it and clean electricity will power it."

Full article here:
<http://tinyurl.com/dngvrn>

CLASSIFIEDS ###
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2009 New Electric XM-5000 Lithium Powered Scooter Revolutionary new commuter class "Clean Green Machine" \$6595, Contact <http://EV-Village.org>, 775-720-6999 or 741-4652

2009 All New Electric XB-700 Lithium Powered Moped Ultra Light Urban Utility with Style "Clean Green Machine" \$1750, Contact <http://EV-Village.org>, 775-720-6999 or 741-4652

2008 New All Electric XM-3000 "His and Her" Scooters Two matched Scooters for touring, "Clean Green Machines" \$4995/pair, Contact <http://EV-Village.org>, 775-720-6999

His and Her matched XM-3000 Electric Mopeds

- * 3000 watt ultra-quiet brushless rear hub motor
 - * All Electric, 43 MPH, 40+ mile range
 - * Hydraulic disc brakes
 - * Smart Charger, tool kit
 - * Locked Under seat and Custom Trunk Storage
 - * Operating costs are less than \$0.02/mile
 - * Eco-Responsible Personal Transportation: No gas, oil, chains, belts, smoke, heat or noise!
 - * Does not require motorcycle registration in Nevada (equivalent to 50cc Scooter)
 - * Regularly \$2,750 each, buy the pair for \$4,950! A savings of \$500 over retail!
 - * These are also exceptionally fun to ride!
- Private sale offered by owner. Call 775-720-6999 or pguttman@ss4s.org for a test drive.

2009 Electric XB-300 Lithium Powered Mountain Bike Revolutionary Utility, Ease and Fun "Clean Green Machine" \$1295, Contact <http://EV-Village.org>, 775-720-6999 or 741-4652

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@gmail.com

2003 & 2005 ZAP SMART CARS PASSION COUPE: Dealer's Comments: 2005 Zap Mercedes Smart Passion Coupe 3 cyl turbo 6 speed tip tronic transmission AC, power windows, alloy wheels, 50 miles per gallon! Made in Germany by Mercedes, Follow this link

<<http://tinyurl.com/cfzgpm>. for pictures. Keith's Kars, 13203 S. Virginia Street, Reno Nevada 89511, Phone: (775) 741-4652, Email: KeithsKars@yahoo.com, Nevada Dealer License #D541 [EDITOR'S NOTE: Keith also has a low milage 2003 Smart Car for sale. It's really clean. Private party (no sales tax) asking \$15,900!]

1984 MAZDA RX7 (GENERATION 1) CONVERSION CANDIDATE:

I got it from a little old lady that had blown the engine. I have already pulled the engine and it is ready for construction. Because it is a unibody construction style, it is strong and can handle the extra weight of the batteries. It has the manual transmission too. From the different research I have done, these car's make into a great conversion. I just posted it on Craig's list for sale at \$800. But if anyone in the club would like to take it on as a project, I would definitely cut them a deal. Maybe mention it at your next meeting and see if there is any interest? Contact Kevin Kaiser, (775) 233-9035

6 HP SEPARATELY EXCITED DC MOTOR:

I also have a large 6hp separately excited DC motor that I'd like to sell for \$150. It can be wired as either a series wound or a shunt wound.....therefore, it gives you electric gearing with proper switching. Provides good torque for acceleration and can switch over for better continuous speed efficiency. It can produce over 20hp with the right amplifier. It's too small for large cars or conversions, but is very good for carts or whatever. Would be great for a Burning Man vehicle if anyone is interested. Please pass along that listing too if it isn't too much trouble. Contact Kevin Kaiser (775) 233-9035

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 new in the box with full documentation. I'll sell them in quantities of one and up. \$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

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COMMENTS

Please call 775.826.4514 or email your comments to Bob Tregilus at atc@electricnevada.org.

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