



Nevada CLEAN ENERGY & TRANSPORTATION CONFERENCE

FEB. 2-3, 2023

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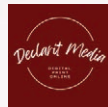


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Special thanks to the companies that are part of the recently formed Nevada Battery Coalition, an organization that will play a vital role in the clean energy future of Nevada, the nation, and world.



Nevada: A Vast, Beautiful State, with IMMENSE Clean Energy Potential



Nevada Could Potentially Power the Entire U.S.

Solar Power Development is Now a Multi-Billion Dollar Industry

During the administration of then Governor Bob Miller—more than 30 years ago—the State Energy Office conducted workshops that brought experts from Sandia National Laboratory to Las Vegas to highlight the truly amazing potential of Nevada’s clean energy resources. These experts explained that an area in Nevada 100 miles by 100 miles covered in solar panels could generate electric power sufficient to meet the demand of the entire U.S. Although transmission capacity to export power across the country isn’t available, this statistic does illustrate the incredible energy resources that are found in Nevada.

business development that “...solar energy applications and battery technologies (could) help the state’s businesses grow, innovate, and outcompete national and international competitors. Indeed, with the right policies, Nevada can strengthen these two clusters and support an annual average of over 28,000 jobs.”

Energy storage also complements and optimizes renewable energy resources, enabling solar and wind to be firm utility resources that provide affordable, reliable power to consumers when they need it.

Energy storage is thus vital to the development and use of clean, increasingly cost-effective solar and wind power resources. Utility scale batteries can also provide additional stability and resiliency to the power grid.

Lithium-ion batteries in particular are absolutely essential to electrifying transportation and reducing emissions of CO₂, NO_x, SO_x, particulates, and other local air pollution that significantly damages human health.

Processing lithium into battery grade materials in the U.S. rather than relying on foreign suppliers is vital to our national security. Developing these supply chains is also an economic development opportunity which Nevada is well poised to pursue.

Clean energy tech is a huge economic opportunity for Nevada. Dr. Jackie Kimble of the American Jobs Project stated in a 2017 Nevada legislative hearing that in terms of job creation and

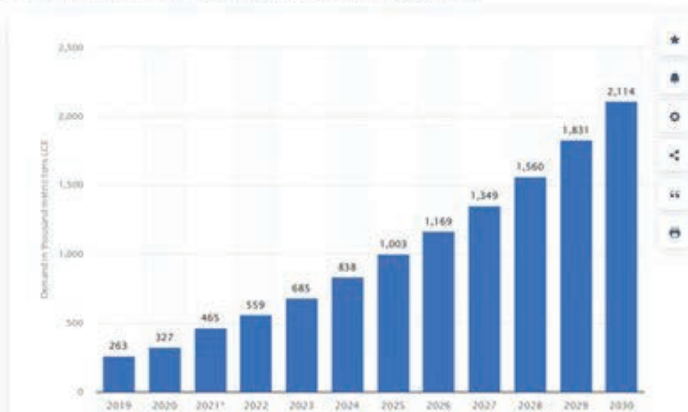


Huge Potential for Job Growth and Economic Diversification Via Clean Energy Industries: Energy Storage Example

“Nevada is in an unparalleled position to benefit from the national and international demand for sustainable transportation, electric storage, and manufacturing at every state of the lithium supply chain. We can also play a critical role in assuring energy independence for our nation. With our national security and global climate at stake, Nevada has the industry, investment, and ingenuity to make a generational difference.”

Caleb Cage, Principal, Arc Dome Strategies, LLC

Projection of worldwide lithium demand from 2019 to 2030
(in 1,000 metric tons of lithium carbonate equivalent)



The world could face lithium shortages by 2025, the International Energy Agency (IEA) says, while Credit Suisse thinks demand could treble by 2025, meaning “supply would be stretched.”

About 2 billion EVs need to be on the road by 2050 for the world to hit net zero, the IEA says.

Source: Ian Shine, World Economic Forum, July 20, 2022

“The Bipartisan Infrastructure Law (BIL) and the Inflation Reduction Act” Supply chain strategies aim to reinvigorate U.S. manufacturing, keep costs in check, create new jobs, and equitably distribute benefits—all while fighting climate change.”

Source: National Renewable Energy Lab (NREL)

Nevada: “Battle Born” and Still Answering the Call to Strengthen the Nation



“The best ways to reduce oil intensity are to bring to bear a diversity of fuels in the transportation sector, and this is best achieved by the electrification of transportation.”

Retired Air Force Gen. Charles F. Wald, member, Energy Security Leadership Council; former deputy commander, U.S. European Command

“For the defense industry, creating hybrid and fully electric vehicles for the U.S. Army isn’t about being eco-friendly: it’s about making soldiers more lethal and survivable.”

“Here’s what industry is offering to meet Army’s electric vehicle needs.” Defense News, Megan Eckstein Oct. 12, 2022

Regional Clean Transportation Forum

Thursday, February 2, 2023

Peppermill Resort Hotel Casino



7:30 - 8:25 am.	Registration/Exhibits
8:25	Pledge of Allegiance Led by Nevada State Senator Patricia Spearman, veteran and retired soldier
8:30	Moderator's Opening Remarks: Lina Tanner, Esq., Tanner Law & Strategy Group
8:35	Welcome to Reno - Hillary Schieve, Mayor, City of Reno
8:40	Let's Increase Our Speed on the Road to a Brighter Future Mayor Ed Lawson, RTC Washoe County Chair, Mayor of Sparks, Nevada
8:50	Securing America's Energy Future, Battery Industry Association Representative TBD
9:00	Transportation Infrastructure Funding Challenges and New Opportunities Panel Moderator: Paul Nelson, Government Affairs Officer, RTC Washoe County <ul style="list-style-type: none">• Barb Rohde, Executive Director, Mileage Based User Fee Alliance• Justin Jones, RTC of Southern Nevada Vice Chair and Clark County Commissioner• Tracy Larkin-Thomason, Director, Nevada Department of Transportation (NDOT)• Nathan Lee, Director of Innovation and Technology, Utah DOT• Chris Brooks, Arevia Power, and Nevada State Senator Emeritus
9:45	Perspectives on Planning for a Zero Emission Future Panel Moderator: Jill Tolles, Executive Director, The Guinn Center <ul style="list-style-type: none">• M.J. Maynard, CEO, Regional Transportation Commission of Southern Nevada (RTC)• Marie Steele, Vice President, Electrification and Energy Services, NV Energy• Bill Thomas, Executive Director, Regional Transportation Commission of Washoe County
10:30	Break
10:45	Advancing Electric Vehicle Charging Infrastructure in Nevada and the Region Panel Moderator: Kathleen Taylor, Councilwoman Ward 5, City of Reno <ul style="list-style-type: none">• Andrew Meyers, Founder and CEO, Kaptyn• Adam Grant, Director, Electrification and Energy Services, NV Energy• Kandee Bahr Worley, Sustainable and Emerging Transportation Planning Mgr., NDOT
11:15	Tax Credits for Battery Electric Vehicles, EV Charging, and Fuel Cell Electric Vehicles Panel Moderator: Chris Lynch, UNR Business Environmental Program (BEP) <ul style="list-style-type: none">• Guy Hall, Board Member, Electric Vehicle Association• Kirsten Stasio, Chief Executive Officer, Nevada Clean Energy Fund• Katrina Sutton, Technical Project Manager, CALSTART• Seve Desoto, Western Lands Energy Siting Analyst, Western Resource Advocates
Noon	Lunch - (in Naples ballroom; registration/ticket required)
12:40-1:15	Lunch Program - Chris Brooks, Arevia Power, and Nevada State Senator Emeritus Nevada's Clean Energy and Economic Future, speaker TBA
1:30 - 4:30	Breakout Sessions

Thursday, February 2, 2023

Sorrento Room 1: Energy Storage

- 1:30 - 2:30 **Exploration, Extraction, and Processing in Nevada's Lithium Loop**
Moderator: Mike Visher, *Nevada Division of Minerals*
Panel: Tim Crowley, *Lithium Nevada*; **Graham Ballachey**, *Tonopah Lithium Corporation*
- 2:30 - 3:30 **Chemical Manufacturing in the Supply Chain**
Moderator: Caleb Cage, *Arc Dome Strategies*
Jim Hodges, *Lithion*; **Chad Yeftich**, *Ioneer*; **Corrado De Gasperis**, *Comstock Inc*
- 3:30 - 4:30 **Recycling and Manufacturing for Energy Storage**
Moderator: Bob Potts, *Deputy Director, Governor's Office of Economic Development*
Andrew Nissan, *Panasonic Corporation of North America*; **Matt Roberts**, *Aquametals*;
Dr. Denis Phares, *Dragonfly Energy*

Sorrento Room 2: Electric Vehicle Charging and Fleet Electrification (Sponsored by NV Energy)

- 1:30 - 3:00 **Residential and Commercial EV Charging, Building Energy Codes, and Equity Issues**
Moderator: Sam Baker, *Clark County Sustainability*
Panel: Peter Gower, *The Nature Conservancy*; **Andy Durling**, *VP, Woods Rodgers*;
Amanda Moss, *Senior Director of Govt. Affairs, Southern Nevada Home Builders Association*;
Patricia Rodriguez, *Director, Demand Side Management & Renewable Programs, NV Energy*;
Leslie Mujica, *Las Vegas Power Professionals*; **Guy Hall**, *Electric Vehicle Association (EVA)*
- 3:00 **Break**
- 3:30 - 4:30 **Electrifying Commercial and Public Sector Fleets**
Kirsten Stasio, *Chief Executive Officer, Nevada Clean Energy Fund (Session facilitator)*
Andrew Meyers, *Founder and CEO, Kaptyn*
Zac Haffner, *Maintenance & Operations Manager, City of Reno*

Sorrento Room 3: Transportation Infrastructure Funding

- TBD **Your Mileage May Vary: The Benefits of Mileage-Based User Fees for Road Funding**
Facilitator: Bill Thomas, *Executive Director, Regional Transportation Commission of Washoe County*
Panelists: Barbara Rohde, *MBUFA*; **Nathan Lee**, *UDOT*; others TBD

Sorrento Room 4: Hydrogen

- 1:30 - 2:30 **Hydrogen and Fuel Cell Transportation Opportunities: Roundtable Discussion**
Honorary Chair: Nevada State Senator Dr. Pat Spearman, *Senate District 1*
Moderator: Steven Polikalas, *Esq.*
Roundtable includes: Roxana Bekemohammadi, *Executive Director, US Hydrogen Alliance*;
Mark Maloney, *Director of Public Transportation, RTC Washoe County*

Capri Ballroom: Background and Benefits of Electrifying Transportation

- 1:35 **Geothermal Power: The Fuel for Electric Vehicles That's Available 24/7**
Neil Ethier, *Director, VP Business Development, Eavor*
- 2:05 **Back to the Future? The History of the Electric Car in America**
Jay Hubbard, *Auto Collections Manager, National Automobile Museum*
- 2:15 **Societal Benefits of Electric Transportation—A "Fast & Furious" Overview**
Tom Polikalas, *Principal, New Energy Opportunity Network (NEON)*
- 2:30 **Leveraging Transportation Infrastructure for Water Savings & Other Benefits**
Luke Hoffman, *Principal, Energy/Water Nexus Consulting*
- 2:45 **Zero Emission Fleets and Private Sector Transportation**
Andrew Meyers, *CEO and Founder, Kaptyn*
- 3:00 **Break**
- 3:30 **Electric School Buses and Opportunities for Public Schools**

Thursday, February 2, 2023

Vanessa Robertson, *President, Envirolution*

4:00 **Sea Change in Transportation**
Guy Hall, *Board Member, Electric Vehicle Association*

4:30 **Adjournment of the Clean Transportation Education Sessions of the Conference**

1:30 - 4:30 - "Showcase" of Electric Vehicles

Sponsored by the Nevada Franchised Auto Dealers Association (NFADA)

The Nevada Franchised Auto Dealers Association (NFADA), the Las Vegas Electric Vehicle Association, the City of Reno, the Sacramento Electric Vehicle Association, the (national) Electric Vehicle Association, and a number of private electric vehicle owners are bringing a variety of zero-emission and low emission vehicles to the conference for attendees to check out and research.



Electric Vehicle Showcase Coordinator:
Stan Hanel, *Las Vegas Electric Vehicle Association*

Special Featured Electric Vehicle: a 1912 Baker Electric!

(Courtesy of the National Automobile Museum.)

The first American President to drive an electric vehicle?

On August 22, 1902, President Theodore Roosevelt rode through the streets of Hartford in an electric automobile. Automobile production was in its early stages of development at the turn of the twentieth century and about half of America's vehicles were electric!

The Baker Electric (pictured at right) was part of the fleet of cars in President Howard Taft's White House. It was driven by Helen Taft, wife of William Howard Taft, and later by Edith Bolling Wilson.



An engineer from Cleveland, Ohio, named Walter C. Baker, along with F. Philip Dorn, built an electrically powered automobile in 1897 and organized the Baker Motor Vehicle Company in 1899. The company specialized in electric vehicles and, by 1905, its annual production was approximately 400 cars. Electricity competed against gasoline and steam as a popular power option for early automobiles.

Locals and out of conference attendees are encouraged to visit the National Automobile Museum at their earliest opportunity! *The National Automobile Museum has a truly amazing collection of iconic cars that are part of America's automotive history-- as well as many that you'll recognize from movies, TV, and entertainment.*

In addition to the many generous sponsors supporting this conference, organizers would like to thank the great team at the Nevada Governor's Office of Energy (NGOE) for their time and assistance. NGOE has several programs available in the areas of energy efficiency and renewable energy as well as being an integral part of Nevada's "Electric Highway." **Learn more at www.energy.nv.gov**



Breaking News: "THE ATOMIKS" will be playing during the "Higher Voltage" segment of the "High Voltage Nights" Mixer!
(See details on the next page)

Electric Cars and American History: Bully!

Electric transportation in the U.S. isn't a new idea. In fact, electric cars once were a prominent, if not dominant, part of America's automotive history.

ConnecticutHistory.Com noted:

“On August 22, 1902, President Theodore Roosevelt rode through the streets of Hartford in an electric automobile. Automobile production was in its early stages of development at the turn of the twentieth century and about half of America's vehicles were electric.”



A high market penetration rate of electric vehicles in the U.S. would put significant downward pressure on the world price for oil, reducing revenues to Russia and other regimes whose interests often are contrary to those of the U.S.

General Motors Super Bowl ad featuring Will Ferrell, has an even higher market penetration rate, with the battery electric vehicles (BEV) reaching a 79.3% share of all new cars sold in Norway in 2022.

Getting to a 50% market penetration rate for EVs isn't an impossible goal. Norway, as noted in a 2021

Lessons learned from America's past may be useful in brightening America's future.

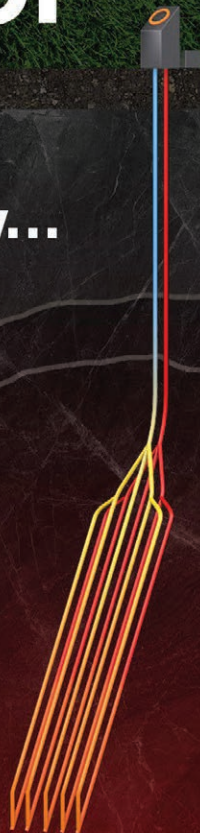


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Nevada Clean Energy Forum

Friday, February 3, 2023

University of Nevada, Reno Innovation Center

Policies. Innovative Projects. Grants & Financing. Investment Opportunities.

8:00 **Registration/Networks**

8:30 **Opening Remarks: Moderator: Jeanette Belz, Belz & Case Public Affairs**

8:45 **Nevada Energy Policy Review and Forecast for the 2023 Session**

Panel Moderator: Sam Shad, Nevada Newsmakers

- **Robert Johnston, Senior Staff Attorney, Western Resource Advocates (WRA)**
- **State Senator Dr. Pat Spearman, Senate District 1**
- **State Senator Roberta Lange, Senate District 7**
- **State Senator Dallas Harris, Senate District 11**

10:00 **Government and School Clean Energy Success Stories, Updates, and Plans**

Panel Moderator: Ann Pongracz, Counsel, Sklar Williams PLLC, and former PUCN Chairwoman

- **Heating and Cooling with Renewable Earth Energy**
Jason Geddes, Sustainability Director, Washoe County School District
- **Solar and Geothermal Use at the City of Reno's Moana Springs Community Center**
Suzanne Groneman, Sustainability Program Manager, City of Reno
- **University of Nevada, Reno (UNR)-RTC Washoe County Energy Storage Project**
Dr. Poria Fajri, Assistant Professor Electrical & Biomedical Engineering, UNR
- **Clark County project TBA**
Sam Baker, Sustainability Program Administrator, Clark County

11:00 **Break**

11:15 **Innovations and Clean Energy Investment Opportunities**

Panel Moderator: Logan Gernet, VP Engineering, Ops, and Power Supply, Valley Electric Assn. (VEA)

- **More Efficient "Polymodal" Heat Pumps; Water Savings in Commercial Buildings**
Paul Bony, Principal, NexTemp, to cover two cutting edge heat pump technologies
- **Superior Refrigerants, Humidifiers and Air-Purifiers**
Matt Baker, Electrification, Utility and Government Programs, Daikin Comfort Technologies
- **Closed-Loop Geothermal Power Production**
Neil Ethier, Director, Business Development-Americas, Eavor

12:15 **Lunch Break - Sponsored by Arevia Power**

Lunch speaker: Chris Brooks, Senior VP, External Affairs, Arevia Power

1:15 **Grant and Other Funding Opportunities for Clean Energy Projects**

Panel Moderator: Aileen Pastor, Government Affairs Supervisor, RTC Southern Nevada

- **Laura Chavez, Energy Coordinator/Business and Cooperative Loan Specialist, USDA Rural Development**
- **Robin Yochum, Program Manager, Nevada Governor's Office of Energy**
- **Greg Lovato, Environmental Protection Administrator, NDEP**

4:00 **Adjourn Nevada Clean Energy Forum-End of Conference**

4:00 - ? **Continue conversations at [RedRock Bar](#), 241 S. Sierra St. Reno**



National Automobile Museum

More than

225 rare, orphan, one-of-a-kind, antique, and collector cars on display in 105,000 sq. ft.

Our collection features several battery powered vehicles including a 1912 Baker Electric V, a 1914 Detroit Electric 46 Gentleman's Roadster, and a battery powered race car!

1 Museum Drive, Reno, NV 89501

(775) 333-9300 | automuseum.org



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Please Mark Your Calendar!
**Saving Energy and Water
in Commercial Buildings
with Ground-Source Heat Pumps**



May 8, 2023

Clark County Department of Environmental and Sustainability

Presentation Room

4701 W. Russel Rd., Las Vegas, NV

Details Coming March 2023



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There are many exciting things to do in northern Nevada this time of year. Stay through the weekend to enjoy our night life. (Visit Reno/Tahoe lists what's going on this weekend. Take advantage of the unparalleled recreation opportunities in the Reno/Tahoe area. World-class snow sports and some of the most spectacular beauty on earth is within an hour's drive from Reno.

Clean Energy and Transportation Conference Planning Committee

Paul Nelson, *Government Affairs Officer, RTC of Washoe County, Chair*

Conference organizers extend their heartfelt thanks to the following individuals who devoted substantial time, talent, and energy toward the success of this event!

Stephen Ascuaga, *Peppermill Resort Hotel Casino*

Jeanette Belz, *BelzCase*

Caleb Cage, *Nevada Battery Coalition*

Rachel Dahl, *The Fallon Post*

Jack Gisea, *RTC Southern Nevada*

Suzanne Groneman, *City of Reno*

Guy Hall, *Sacramento Electric Vehicle Association*

Luke Hoffman, *Energy/Water Nexus Consulting*

Robert Johnston, *Western Resource Advocates*

Jesse Mena, *RedRock Strategies*

Aileen Pastor, *RTC Southern Nevada*

Lauren Rosenblatt, *Uplift Solar*

Robyn Yochum, *Nevada Governor's Office of Energy*

Sam Baker, *Clark County Sustainability*

Dana Bennet, *Midas Strategies*

Ania Cavillo-Mason, *University of Nevada, Reno
Innovation Center*

Susan Fisher, *McDonald-Carano*

Peter Gower, *The Nature Conservancy*

Jane Grossman, *A Sustainable Way*

Stan Hanel, *Las Vegas Electric Vehicle Association*

Chris Lynch, *UNR Business Environmental Program*

Leslie Mujica, *Las Vegas Power Professionals*

Dave Mulligan, *Mad Mulligan Productions*

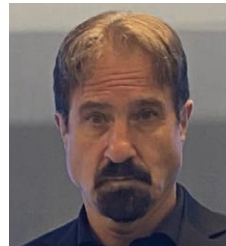
Kirsten Stasio, *Nevada Clean Energy Fund*

Andy MacKay, *Nevada Franchised Auto Dealers
Association (NFADA)*

Memoriam to Carlo Luri



Conference organizers and planning committee members mourn the passing of Carlo Luri, one of the first conference clean energy advocates to work on the Nevada Clean Energy & Transportation Conference. Carlo was our friend and a very kind, enthusiastic, smart man, whose time on this earth was far too short. He had a great passion for our environment. He put his intellect, energy, leadership, great personality, and other attributes into many efforts that improved our environment and community.



Conference Principals and Organizers

It was less than a year ago when the three of us started to talk about the great clean energy events that had taken place in Nevada in past years such as the National Clean Energy Summits organized by Jennifer Taylor and the Clean Energy Project. We also recalled the great success of the Nevada Electric Transportation Forum in 2019 which brought together key stakeholders, the general public, and legislators to share information which advanced Nevada's leadership in electric transportation. We thank all those who made these past events a success. We especially thank the sponsors, speakers, attendees, and all participants who've come together at the Nevada Clean Energy & Transportation Conference this year. We hope all our efforts and this event leads to continued education and information sharing which brightens Nevada's economy, environment, and future.

Sincerely, Lina Tanner, Kevin McGehee, Tom Polikalas



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