



# Recharge Nevada™

A Coalition for Energy Innovation

## Recharge Nevada | A Coalition for Energy Innovation

### Forging a Resilient Future

Recharge Nevada is a state-wide initiative to collaboratively build an innovation ecosystem around the lifecycle of lithium batteries. Nevada has the natural resources, industrial base, and research capacity to develop a first-of-a-kind lithium circular economy that meets the nation's clean energy storage needs now and into the future.

Nevada has innovative and cutting-edge workforce development programs at all levels, supports world-renowned research labs, and is home to entrepreneurial and industrial activity in the entire lifecycle of lithium batteries, from resource extraction, to processing, to battery development, reuse and recycling.



Recharge Nevada is the coalition that engages stakeholders across the entire “lithium loop” to coordinate and align initiatives for maximum impact. Recharge Nevada is working to build a sustainable and inclusive innovation engine to accelerate globally competitive and commercially viable energy storage technologies.

### Nevada Lithium Circular Economy Conference

We hosted a two-day, state-wide conference on the University of Nevada, Reno campus in April 2024.

[Learn more about the 2024 conference.](#)

## Broader Impact

Nevada has the opportunity to lead the nation in developing a domestic circular economy that fuels the nation's clean energy independence.

The broader impacts of Recharge Nevada support the move toward sustainable mining processes and clean, reliable domestic energy storage technologies to fuel a prosperous American economy.



## Recharge Nevada Partner Organizations

University of Nevada, Reno

Nevada Governor's Office of Economic Development

nevadaworks

Comstock

Nevada Department of Employment, Training and Rehabilitation

American Battery Technology Company

gener8tor

Nevada System of Higher Education

Ioneer

Redwood Materials

Truckee Meadows Community College

University Center for Economic Development

Economic Development Authority of Western Nevada

Aqua Metals

Lithium Americas

Manufacture Nevada

University of Nevada, Las Vegas

Tesla

Nevada Battery Coalition

Idaho National Lab

Pacific Northwest National Laboratory

America's Frontier Fund

Lilac Solutions

Would you like to learn more? Please email [RechargeNevada@unr.edu](mailto:RechargeNevada@unr.edu)



Recharge Nevada was initially funded under the National Science Foundation Engines award number 2305697.

[Learn more about NSF Engines.](#)



The U.S. Economic Development Administration designated Nevada one of 31 regional technology and innovation hubs in 2023. Led by the University Center for Economic Development, the Nevada Tech Hub is a consortium-based effort to transform Nevada's economy and build capabilities in the lifecycle of lithium batteries and other EV materials.

[Learn more about the Nevada Tech Hub.](#)



# Recharge Nevada™

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## Nevada Lithium Circular Economy Conference

April 8-9, 2024

University of Nevada, Reno

### More than 250 Attendees from 150 Unique Organizations Joined Us for Two Days

The conversation and collaboration focused on the Lithium Circular Economy in Nevada — a complete lithium supply chain, from resource management of critical materials, to processing, to battery development, recycling, and reinvention of the future generations of batteries chemistries.



### Boosting Inclusive Economic Growth in Nevada

The agenda included panel discussions on trends in battery technology, workforce and economic development, and the future needs for a successful lithium circular economy. Speakers included experts in innovation ecosystems, members of experienced research alliances, and individuals from key Nevada organizations and agencies. Breakout groups gave attendees an opportunity to learn what the key stakeholders have already been working on, and to give input and feedback to expand ideas.

# Conference Agenda

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## Day 1: Monday, April 8, 2024

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### 9-9:25 a.m. | Conference Kickoff and Welcomes



Brian Sandoval  
17th President of the University of Nevada, Reno  
Former Governor, State of Nevada

### 9:25-10:30 a.m. | Fireside Chat

- NSF Directorate for Technology, Innovation and Partnerships
- Nevada Governor's Office of Economic Development
- University of Nevada, Reno Research and Innovation



Geoffrey Brown, Ph.D.  
Program Director  
National Science Foundation  
Directorate for Technology, Innovation and Partnerships



Bob Potts  
Deputy Director  
Nevada Governor's Office of Economic Development



Mridul Gautam, Ph.D. (Moderator)  
Vice President for Research and Innovation  
University of Nevada, Reno

### 10:30-10:45 a.m. | Networking Activity

### 11:00 a.m.-Noon | Presentation

In this richly illustrated presentation, Eben and Numan will explore how their indigenous, cultural perspective differs from the perspectives typically held by non-Natives. Native American historical and cultural events have largely been interpreted and related to the American public by non-Indians, many of them western-trained archaeologists and scientists. This has resulted in a proliferation of incorrect views and insensitive attitudes towards Native culture. Additionally, problematic stereotypes have been perpetuated by television shows, movies and mass media. This presentation will describe the historical and current laws that Native American tribes must maneuver through to be heard by federal, state and local entities. It will demonstrate how government policies and administrative guidelines were created, and function, to continue the colonization of the New World. Eben and Numan will also demonstrate how mining adversely affects the environment while asking, if extractive processes like lithium mining depend upon fossil fuels, how much lithium will society need to recycle? They will ask their audience to

consider whether this new wave of extraction should require the first peoples of the U.S. to sacrifice more of their culture and more of their unceded lands to satisfy settler-colonial capitalism.



Michon Eben  
Cultural Resource Manager/THPO  
Reno-Sparks Indian Colony



Travis Numan  
Ph.D. Student in the Department of Civil and Environmental Engineering  
College of Science, University of Nevada, Reno

### 12:45-1:45 p.m. | Panel Discussion

Future trends in battery technology with representatives from Dragonfly Energy, Panasonic and Comstock, Inc.



Vick Singh  
Senior Vice President of Technology  
Dragonfly Energy



Bryan Byles  
Assistant General Manager, Materials Engineering  
Panasonic



Corrado DeGasperis (Moderator)  
CEO and President  
Comstock, Inc.



Zach Favors  
Vice President of Battery R&D  
Lyten

### 1:45-3:15 p.m. | Breakout Session

- Culture of Innovation
- Economic Development (Community and Economic Development Initiatives)
- Workforce Development
- Sustainable Development

### 3:15-4:15 p.m. | Panel Discussion

Venture Capital with representatives from America's Frontier Fund, Roadrunner Ventures, SVB Capital and gener8tor.



Zach Beecher  
Head of Strategic Partnerships  
America's Frontier Fund



Danny deLaveaga  
Managing Director  
gener8tor



Beau Laskey  
Managing Partner  
SVB Capital



Doug Erwin (Moderator)  
Senior Vice President, Entrepreneurship  
Economic Development Authority of Western Nevada (EDAWN)

**4:15-4:45 p.m. | Speaker**



Betony Jones  
Director of the Office of Energy Jobs  
U.S. Department of Energy

**5:00 p.m. | Reception**

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**Day 2: Tuesday, April 9, 2024**

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**9-9:15 a.m. | Welcome**



Rob Ghiglieri  
Administrator  
Nevada Division of Minerals

**9:15-10:15 a.m. | Panel Discussion**

Success Stories and Lessons Learned from Successful Innovation Ecosystems with representatives from the Georgia Research Alliance, BioSTL, the Arkansas Research Alliance and the State Science & Technology Institute.



Bryan Barnhouse  
President & CEO  
Arkansas Research Alliance



Susan Shows  
Georgia Research Alliance



Brittany Whitley  
Manager of Talent & Workforce Strategy  
BioSTL



Jason Rittenberg (Moderator)  
Vice President  
State Science & Technology Institute

### 10:15-10:45 a.m. | Industry Q&A Session

Q&A with Recharge Nevada collaborators.

### 10:45 a.m. – Noon | Breakout Session

- Economic Development (Nevada's Battery Supply Chain: Challenges and Opportunities)
- Use-Inspired Research
- Workforce Development

### 12:45-2 p.m. | Panel Discussion

The Battery Circular Economy with representatives from the University, Lithium Americas, Redwood Materials and American Battery Technology Company.



Dev Chidambaram  
Professor, Chemical & Materials Engineering  
University of Nevada, Reno



Ryan Ravenelle  
R&D Manager  
Lithium Americas



York Smith  
Director of Research & Development  
American Battery Technology Company



Paul Voigt  
Vice President, Chemical Engineering  
Redwood Materials



Jeremy Moon, Ph.D. (Moderator)  
Research Scientist  
University of Nevada, Reno

## 2:15-3:30 p.m. | Panel Discussion

Workforce and Economic Development in Nevada's New Innovation Ecosystem with representatives from Truckee Meadows Community College, the Nevada Governor's Office of Economic Development, Tesla and the University Center for Economic Development.



Karsten Heise  
Senior Director Strategic Programs & Innovation  
Governor's Office of Economic Development



Kim Harrell, Ph.D.  
Dean, Applied Technology Division  
Truckee Meadows Community College



Chris Reilly  
Policy & Business Development  
Tesla



Fred Steinmann, Ph.D.  
Director, University Center for Economic Development  
University of Nevada, Reno



Tom Simpkins (Moderator)  
Director  
Manufacture Nevada

## 3:30 p.m. | Conference wrap-up

## Conference Participants

Thank you to all our participating organizations!

555 Real Estate Development  
Advantage Capital  
American Battery Technology Company  
America's Frontier Fund ANA Inc.  
Aqua Metals  
Aquatech International LLC  
Arc Dome Strategies  
Argonne National Laboratory  
Arkansas Research Alliance  
Athos Commodities Solutions  
Barr Engineering Co.  
BEC Environmental, Inc.  
BioSTL  
Black Eagle Consulting, Inc.

Brycon Corporation  
Building & Construction Trades Council of Northern Nevada  
Bureau of Land Management  
CIATA City of Fernley  
City of Reno  
City of Sparks  
Colorado School of Mines  
Comstock Inc.  
Comstock Metals  
Copper State Bolt & Nut Company  
Desert Research Institute  
Dragonfly Energy  
Earthworks  
Economic Development Authority of Western Nevada  
Education Alliance of Washoe County  
Envirolution Espiku Inc.  
Federal Bureau of Investigation  
gener8tor  
GeoGlobal LLC  
Georgia Research Alliance  
Governor's Office of Science, Innovation and Technology  
Great Basin Center for Geothermal Energy  
Great Basin College  
Great Basin Resource Watch  
Grinergy Heat & Frost Insulators, Local 16  
HERO Environmental  
HESCO  
IBEW Local 401  
Idaho National Laboratory  
International Lining Technology  
Ioneer USA Corporation  
Iron Workers Local 118  
ITS Logisitcs, LLC  
JOIN Inc.  
Kenny Guinn Center for Policy Priorities  
Las Vegas Global Economic Alliance  
Lilac Solutions, Inc.  
Lithion Battery, Inc.  
Lithium Americas Corporation  
Lithium Nevada Corporation  
Lyon Modular Sustainable Workforce Housing  
Lyten Manpower  
Manufacture Nevada

Mineral County Nevada  
Minority Business Development Agency, US Department of Commerce, Operated by  
Prestamos-CPLC  
MW ADC Bricklayers & Allied Craft Workers  
Mwbac Local 13 NV Bricklayers & Tile Setters  
N. NV. Operating Engineers JAC  
National Renewable Energy Laboratory  
National Science Foundation  
Navajo Technical University  
Naval Postgraduate School  
NCLab  
Nevada 95-80 Regional Development Authority  
Nevada Battery Coalition  
Nevada Career Studio  
Nevada Consular Corps  
Nevada Counsel, LLC  
Nevada Department of Conservation and Natural Resources  
Nevada Department of Education  
Nevada Department of Employment, Training and Rehabilitation  
Nevada Division of Environmental Protection  
Nevada Division of Minerals  
Nevada Governor's Office of Economic Development  
Nevada Governor's Office of Energy  
Nevada Green Institute  
Nevada INBRE  
Nevada Indian Commission  
Nevada International Custom Exchange  
Nevada Legislature  
Nevada Research and Innovation Corporation  
Nevada System of Higher Education  
Nevada Technology Corporation  
Nevadaworks  
NNEJATC  
Nnenergy & Co.  
Northeastern Nevada Regional Development Authority  
Northern Nevada Development Authority  
Northern Nevada Electric JATC  
Northwest Regional Organizing Coalition  
NV Resources  
Omega Development Services  
Opto 22  
Panasonic  
Panasonic Corporation of North America

Panasonic Energy  
Pershing County Economic Development Authority  
Q Technology, Inc  
Quantum Copper Inc  
Redwood Materials  
Reno + Sparks Chamber of Commerce  
Reno-Sparks Indian Colony  
Reno-Tahoe Airport Authority  
Rockwell Automation  
Roman DBDR  
Roseman University College of Medicine  
Shoshone Paiute Tribes  
Sierra Pacific Credit Union  
Silver State Government Relations  
SKICAPS Consulting  
Smart Radar System, Inc.  
Southwest Central Regional Economic Development Authority  
SRS.ai  
StartUpNV  
Strategies 360  
Struhsacker Consulting  
Summit Lake Paiute Tribe  
Sunstone Environmental Solutions LLC  
SVB Capital  
Tesla, Inc.  
The Discovery  
The Loring Group  
The Nature Conservancy  
The Office of Senator Catherine Cortez Masto  
The State Science & Technology Institute  
Truckee Meadows Community College  
U.S. Department of Agriculture, Rural Development, Nevada  
Umpqua Bank  
Umpqua Middle Market Banking  
Union Pacific Railroad  
United Association of Plumbers and Pipefitters Local 350 JATC  
United Auto Workers Region 6  
University of Nevada, Las Vegas  
University of Nevada, Reno  
US Department of Commerce  
US Department of Energy  
Vetter PR, Inc.  
Virginia Tech

Washoe County

Washoe County School District

Western Nevada College

Western Nevada Development District