

CLEAN ENERGY
FOUNDATION

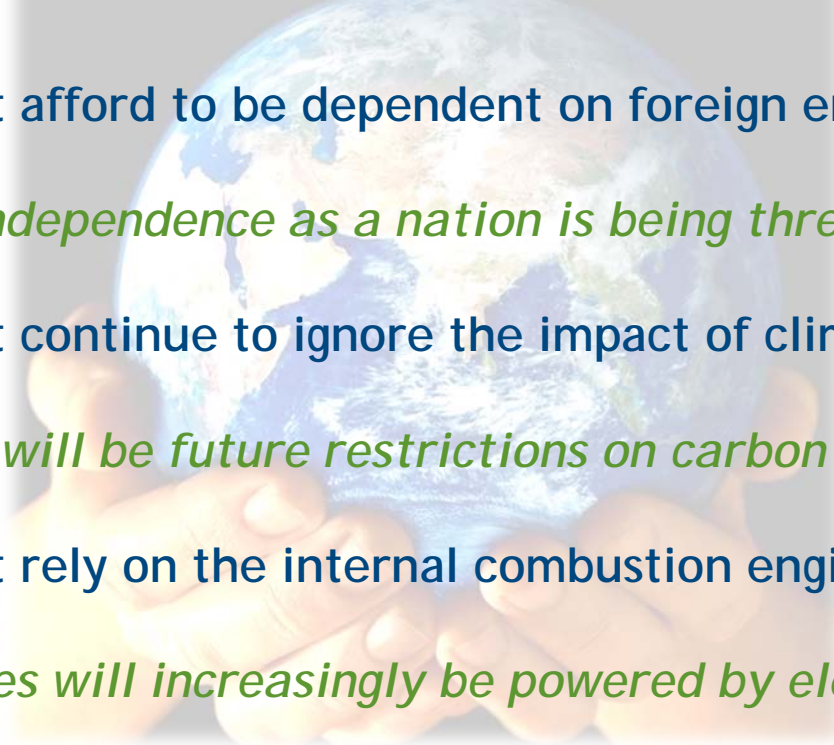


21st CENTURY CLEAN RUSH

*A Plan to Build a Better Future for
Nevada - and Nevadans!*

The World is Changing - and So Must Nevada!

- We can not afford to be dependent on foreign energy sources.
 - *Our independence as a nation is being threatened!*
- We can not continue to ignore the impact of climate change.
 - *There will be future restrictions on carbon pollution!*
- We can not rely on the internal combustion engine forever.
 - *Vehicles will increasingly be powered by electricity!*



The Changing Face of Nevada



The State of Nevada is Facing Numerous Challenges!

- Slowing economic growth is driving growing unemployment.
- Demand for State-provided services is increasing due to both population growth and the troubled national economy.
- Traditional sources of tax revenue are stagnating across the State, resulting in increasingly unpredictable revenue streams and growing budget deficits.
- Nevada is ranked as one of the least “healthy” states in the Union, above only New Mexico, Mississippi and Louisiana.
- Education at all levels is ranked low nationally, historically under-funded, and likely to suffer from further budget cut-backs.
- Nevada is currently ill-prepared to compete globally for the knowledge-driven opportunities of the 21st Century.



Education in Nevada is Failing to Make the Grade!

- Assessments of elementary and secondary math, reading, science and writing skills consistently rank Nevada in the bottom nationally.
- Nevada ranks 46th nationally in the percentage of people who have completed a Bachelor's Degree - only 19.3%!
 - Only Kentucky, Mississippi, Arkansas and West Virginia rank lower.
- Nevada ranks 47th nationally on the "Best Educated Index", above only New Mexico, Mississippi and Arizona.
- Nevada ranks 48th in elementary and secondary staff per capita, above only Michigan and Illinois.
- Nevada ranks 49th nationally in elementary and secondary spending per capita, above only Florida.



BUT - The State of Nevada is NOT without Resources

- It is the 7th largest State in the Union, behind Alaska, Texas, California, Montana, New Mexico and barely Arizona.
- It has the 2nd largest amount of range land in the Union, behind only Texas.
- It is 3rd in total renewable energy produced, behind only California and Florida.
- It ranks 1st in per capita construction expenditures ... and 1st in the percentage of people employed in service.
- It is 1st in total renewable energy produced per capita!
- It is projected by the US Census Bureau to lead the nation in percentage change in population through 2030!
 - With a projected population of nearly 4,300,000 ... almost doubling the current population of Nevada.



Nevada Must
Leverage its
Pioneering
Past

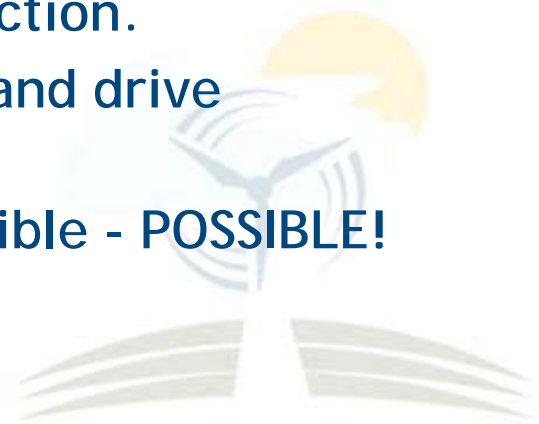
NOW to
Battle for a
Considerably
Better
Future for
All
Tomorrow!





Battle Born Prosperity

- Geologically active area, with typically bright skies and frequently blowing winds.
- Wide open spaces ... with a sizeable amount of sparsely populated land managed by the Federal Government.
- Proximity to much larger population centers in other States - especially California.
- Experience in building BIG - and in servicing small.
- A national leader in renewable energy production.
- A growing population base to provide talent and drive demand.
- A pioneering spirit that can make the impossible - **POSSIBLE!**



The Changing Face of Nevada

TODAY

- Net Importer of Electricity
- Heavy Reliance on Gaming
- Ranked Low in Education
- Challenged to Compete
- A Leader in Renewables

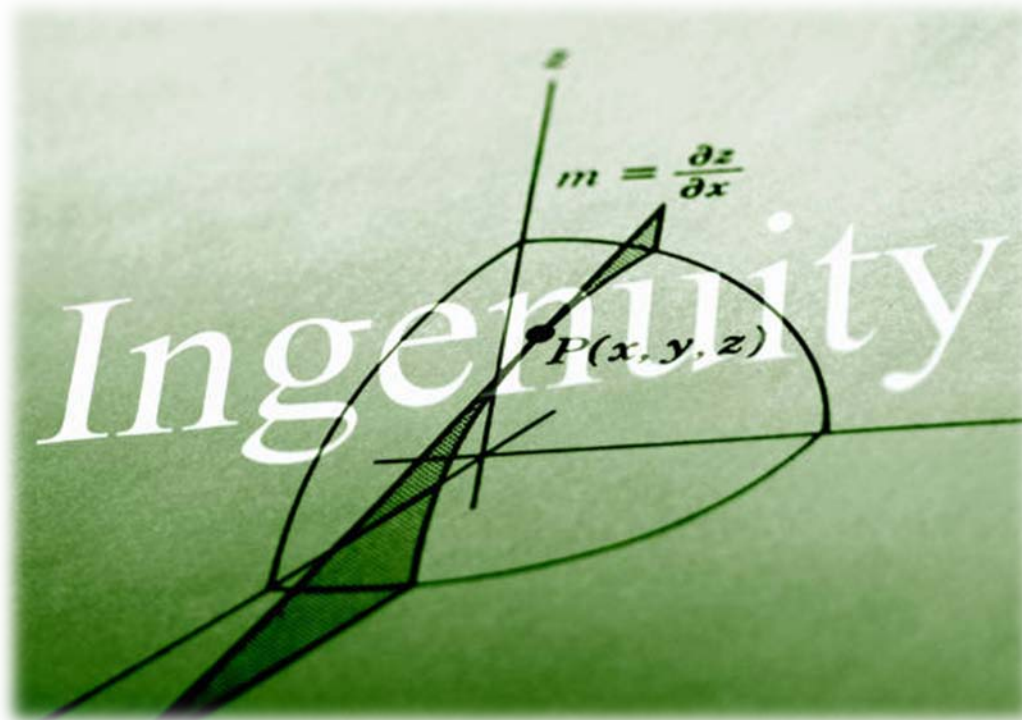
- The Silver State

TOMORROW

- Net Exporter of Electricity
- Strong Diversified Tax Base
- Ranked High in Education
- The Competitor to Beat
- *The* Leader in Renewables

- The Green - *or Clean* - State





How Can We Do It?!





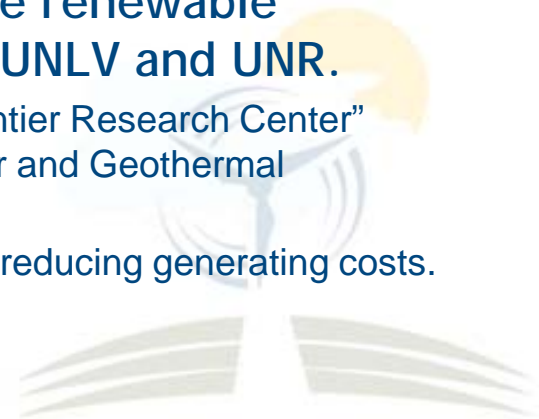
- Think Smart
- Win Our Fair Share
- Connect Everywhere
- Build Big
- Teach for Tomorrow



Think Smart



- Develop an innovative plan which more aggressively drives Nevada towards a clean energy future.
 - Focus on leveraging Public-Private partnerships.
- Differentiate Nevada from surrounding states by “thinking different” .
 - Recognize that simply doing more of the same will not produce an optimal outcome.
 - Leverage legacy to build a better future.
- Revitalize or Replace the Nevada State Office of Energy to better coordinate State-wide activities.
- Significantly expand the renewable energy centers at DRI, UNLV and UNR.
 - Make each a “Energy Frontier Research Center” respectively in Wind, Solar and Geothermal technologies.
 - Focus research efforts on reducing generating costs.



Win Our Fair Share



- Actively participate in all relevant Federal programs to maximize the clean energy dollars flowing into Nevada.
- Reallocate a portion of the revenue flow from BLM-managed lands in Nevada to support the development of clean energy resources in Nevada.
- Engage with the Department of Energy to:
 - Expand the National Renewable Energy Laboratory through construction of a new dedicated geothermal research campus in Reno and a new dedicated solar research campus in Las Vegas.
 - Develop innovative government-supported financing programs through DOE to accelerate the development of clean energy resources in Nevada.
- Create a Nevada “Clean Enterprise Fund” to help channel Federal and State dollars into investments in local clean energy start-ups and later stage expansions.



Connect Everywhere



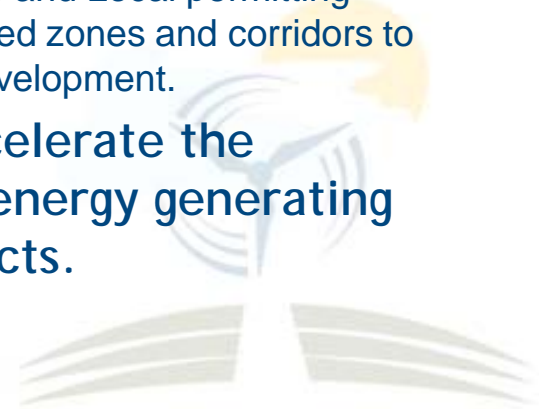
- Develop a realistic strategy to attract new companies to Nevada without unnecessarily sacrificing the future revenue base.
- Recognize core strengths in construction, distribution and service.
- Focus economic development efforts on “winnable” opportunities.
 - Don’t ignore local companies in the process!
- Coordinate state, county and local economic development efforts to better align resources against the mission.
 - Target both established companies and start-ups throughout the country.
 - Expand efforts globally into attracting Asian and European companies.
- Engage all relevant constituencies, public and private, to sell Nevada.



Build Big



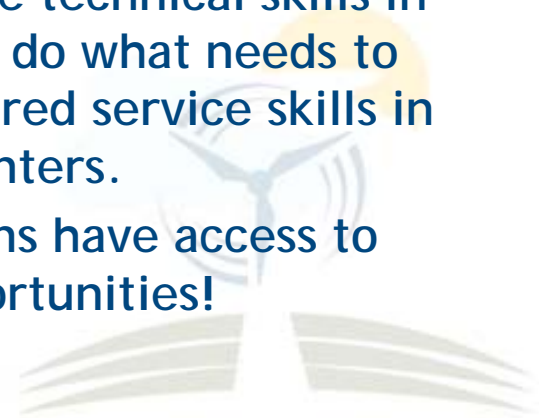
- Establish the objective of making Nevada energy independent, and therefore a net energy exporter, no later than 2020.
- Significantly increase the “Renewable Portfolio Standard” over a shorter period of time to drive faster development of clean energy sources.
 - Recognize comparative differences in costs, and incentivize geothermal, wind and solar accordingly.
- Develop clean energy zones and transmission corridors in collaboration with the BLM.
 - Simplify the Federal, State and Local permitting processes within designated zones and corridors to significantly accelerate development.
- Use public funds to accelerate the development of clean energy generating and transmission projects.



Teach Tomorrow



- Acknowledge Nevada's legacy, but accept the need to develop a knowledge-based economy in order to compete globally.
 - Adequate and reliable funding of elementary, secondary and higher education is absolutely critical to accomplishing this objective.
- Change the mentality that has effectively encouraged people to forgo an education.
- Modify the curriculum appropriately at all levels to better prepare Nevadan's for a brighter future.
- Build intellectual capital in Universities to develop new things, the technical skills in Community Colleges to do what needs to be done, and the required service skills in Vocational Training Centers.
- Ensure that all Nevadans have access to the best available opportunities!





How Do We Pay for It?!



The “Clean Rush” Financial Plan

- Approve \$1 Billion in State general obligation financing to fund clean energy technology research, development and commercialization in Nevada over a ten (10) year period.
- The State of Nevada to further finance hundreds of miles of transmission lines to connect clean energy zones to the grid.
- The State of Nevada also to finance the construction of 10,000 MW of clean power-generating capacity in these zones by 2030.
 - Program to average 500 MW per Year of Geothermal, Solar and Wind Power.
 - Construction and operation of these new power plants will be contracted to third parties, such as NVEnergy, with all appropriate protections and guarantees.
 - All net profits are to be reinvested in elementary, secondary and higher education.
- The SNPLMA is replaced with a new NPLMA authorizing the sale of millions of acres of Federal land in Nevada to assist in repaying the debt associated with financing the foregoing projects.



How Do We Make It Happen ...



... Now?!



The Nevada Declaration of Energy Independence



A sustained grass roots effort ... *in collaboration with visionary leaders throughout the State* ... to change Nevada before it's too late.



The Nevada Declaration of Energy Independence



Dramatically Increase Energy Efficiency

Dramatically Decrease the Cost of Renewable Energy

Dramatically Limit the Burning of Coal, Oil and Natural Gas



Independence!



Dramatically Increase Energy Efficiency

- Establish, update and enforce building code standards designed to improve energy efficiency in commercial and residential buildings.
- Change laws and regulations to eliminate prohibitions against clean technologies.
- Develop programs and provide financial incentives to encourage energy efficient renovations to existing commercial and residential buildings.
 - Take a leadership role by modifying State and Local government buildings to improve energy efficiency.
 - Specifically fund a “Clean Energy Corps” to accelerate weatherization of tens of thousands of homes and businesses in Nevada.

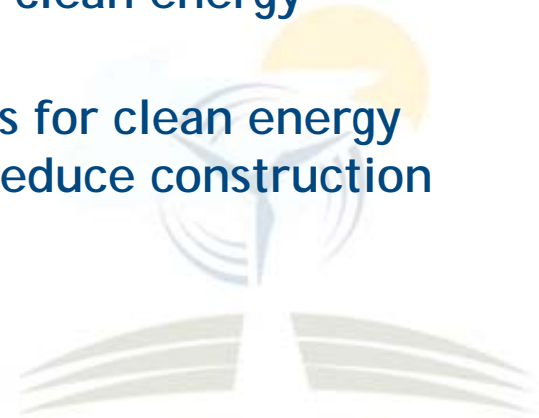


Independence!



Dramatically Decrease the Cost of Renewable Energy

- Invest heavily in state-wide research and development initiatives focused on lowering the costs of generating clean energy.
- Focus implementation first on lower cost alternatives - geothermal - and then on higher cost alternatives - wind and solar.
- Leverage public financing to lower the cost of developing new clean energy projects in Nevada.
- Use BLM-managed lands for clean energy projects in Nevada to reduce construction and transmission costs.

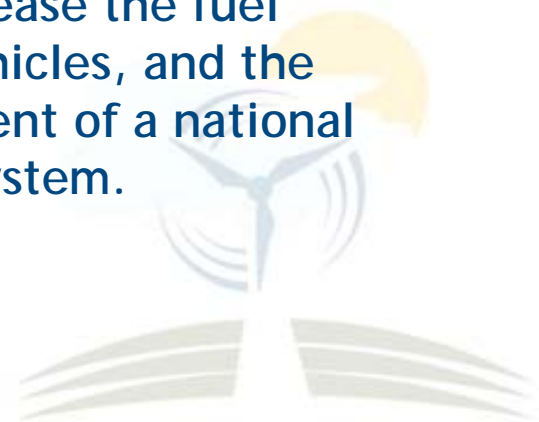


Independence!



Dramatically Limit the Burning of Coal, Oil and Natural Gas

- Revise the Renewable Portfolio Standard (RPS) to provide for a more aggressive timeline:
 - Nevada to Require 100% Clean Energy in 2050!
- Enact financial penalties for missing RPS targets.
- Support the enactment of a system which puts a market price on carbon pollution.
- Support efforts to increase the fuel efficiency of motor vehicles, and the longer-term development of a national clean transportation system.



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Join Together Now ... Right Now!





Support the Nevada Declaration of Energy Independence!





Your Voice Can Change the World!



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THANK
YOU

