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FIRST REPRINT

S.C.R. 1

SENATE CONCURRENT RESOLUTION NO. 1—SENATORS SPEARMAN,
BROOKS, DENIS, PARKS; D. HARRIS, OHRENSCHALL, RATTI
AND WOODHOUSE

FEBRUARY 18, 2019

Referred to Committee on Legislative Operations and Elections

SUMMARY—Directs the Legislative Committee on Energy to
conduct an interim study concerning the
development of renewable energy and clean energy
resources in this State. (BDR R-117)

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EXPLANATION – Matter in *bolded italics* is new; matter between brackets ~~omitted material~~ is material to be omitted.

SENATE CONCURRENT RESOLUTION—Directing the
Legislative Committee on Energy to conduct an interim
study concerning the development of renewable energy
and clean energy resources in this State.

1 WHEREAS, A renewable energy and clean energy resources
2 program administered by appropriate state and local agencies in this
3 State has the potential to unleash the vast clean energy resources in
4 this State and put Nevada at the forefront of renewable energy and
5 clean energy development as a primary means of achieving energy
6 independence; and

7 WHEREAS, The foundation of such a program is rooted in
8 Nevada's expansive and, to date, largely untapped potential for
9 renewable energy and clean energy resources, including, without
10 limitation, Nevada's underdeveloped geothermal resources, which
11 are more substantial than in any other state, Nevada's large deposits
12 of lithium, which are currently the only deposits producing lithium
13 for use in the United States, and Nevada's potential for additional
14 development of solar energy, low-temperature geothermal, waste
15 heat to power, combined heat and power, energy storage technology
16 and other clean energy resources which may be identified in the
17 future; and

18 WHEREAS, Geothermal energy has the smallest carbon footprint
19 of any form of renewable energy and can be used across a wide
20 spectrum of temperatures, including lower temperatures capable of



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1 providing direct-use applications, such as heat for public facilities,
2 homes, greenhouse agriculture and vegetable dehydration, and
3 higher temperatures that can produce electricity; and

4 WHEREAS, Lithium is critical to the burgeoning electric
5 automobile industry and for battery technology in general, with a
6 wide array of applications for all forms of renewable energy and
7 clean energy; and

8 WHEREAS, Systematic studies are needed to locate these
9 renewable energy and clean energy resources, to analyze the
10 feasibility, both technical and economic, of developing such
11 resources, to determine the best methods for extraction of such
12 resources and to determine if initial support is needed to assist
13 entrepreneurial industries to develop such resources; and

14 WHEREAS, Studies are needed to understand the full potential of
15 solar energy and its potential relationship with other forms of
16 renewable energy, including, without limitation, enhancing
17 geothermal energy output and determining whether the utilization of
18 solar energy is incentivized by state and local building codes; and

19 WHEREAS, The implementation of cost-effective energy
20 efficiency measures by state agencies in this State has the potential
21 to save energy costs for the State of Nevada and protect and
22 improve the environment in this State; and

23 WHEREAS, The conduct of a statewide audit to identify cost-
24 effective energy efficiency measures for implementation by state
25 agencies will enable the State of Nevada to realize the cost savings
26 and environmental benefits of energy efficiency measures; now,
27 therefore, be it

28 RESOLVED BY THE SENATE OF THE STATE OF NEVADA, THE
29 ASSEMBLY CONCURRING, That the Legislative Committee on
30 Energy shall conduct an interim study of the assessment and
31 development of the renewable energy and clean energy resources
32 available in this State with the goal of achieving energy
33 independence and facilitating economic diversification in this State;
34 and be it further

35 RESOLVED, That the study include consideration of methods to
36 increase the opportunities for students in this State to study subjects
37 related to renewable energy and clean energy at community colleges
38 and universities in this State; and be it further

39 RESOLVED, That, in conducting the study, the Legislative
40 Committee on Energy shall partner or consult with representatives
41 of the Nevada System of Higher Education to examine ways to
42 improve the training of workers in the renewable energy and lithium
43 extraction industries, including, without limitation, ways to improve
44 the training of workers to develop, construct, improve, maintain and
45 repair renewable energy and lithium extraction facilities and



1 systems and the components of those facilities and systems,
2 including, without limitation, artificial intelligence used in those
3 facilities and systems; and be it further

4 RESOLVED, That, as part of the study, the Legislative Committee
5 on Energy may, if feasible, enter into a contract or other agreement
6 with the University of Nevada, Reno, the University of Nevada, Las
7 Vegas and the Desert Research Institute for the gathering of data
8 concerning the assessment and development of renewable energy
9 and clean energy, and a cost-benefit analysis of the various sources
10 of supply of energy, including, without limitation, natural gas
11 plants, geothermal facilities, solar resources, combined heat and
12 power, waste heat to power and demand-side energy conservation
13 resources, from obtaining the energy to the delivery of the energy or
14 energy services to the end-user of the energy; and be it further

15 RESOLVED, That the study include the feasibility of using
16 renewable energy resources, clean energy resources and the lithium
17 resources in this State for various applications including, without
18 limitation, consideration of:

19 1. The potential for converting existing mines into clean energy
20 resources;

21 2. The potential for using direct-use geothermal energy in
22 universities, governmental offices, prisons and other major public
23 facilities in Nevada;

24 3. Methods for incentivizing the use of renewable energy
25 resources, including on-site energy generation, in the construction of
26 new homes and buildings;

27 4. Economic and regulatory barriers preventing maximum
28 implementation of clean energy resources including, without
29 limitation, barriers to fully utilizing existing disturbed lands as
30 locations for clean energy resources;

31 5. The potential for developing geothermal resources for
32 individual mines and mining districts;

33 6. The potential for the mining of heat from rocks for
34 engineered geothermal systems in this State, including using the site
35 in Fallon, Nevada, previously considered as the site for the Frontier
36 Observatory for Research in Geothermal Energy (FORGE)
37 laboratory by the United States Department of Energy;

38 7. The potential for locating clean energy facilities on existing
39 brownfield sites and other previously disturbed lands such as
40 disused landfills, mines and former industrial sites;

41 8. Methods for the acquisition of light detection and ranging
42 (LiDAR) data, which is high resolution topographic data that may
43 provide critical information on the distribution of faults and rock
44 layers that host renewable energy resources;



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9. Methods for the acquisition of new, detailed geologic and energy resource potential maps, including three-dimensional maps, to help identify areas with the greatest potential for development of geothermal and lithium resources;

10. Methods for implementing micro-grids, distributed generation and off-grid developments to innovate and increase the resiliency of the electric power grid, while reducing the losses inherent to transmission on the electric power grid;

11. The development of infrastructure and support for staff, including, without limitation, laboratories, geoscientists, data managers, web specialists, engineers and economists at state agencies and components of the Nevada System of Higher Education to facilitate implementation of a renewable energy and clean energy resources program in this State; and

12. Any other matter that the Committee determines is relevant to the study; and be it further

RESOLVED, That the study propose a framework for engaging in damage mitigation and land revitalization for the purpose of locating clean energy facilities on existing brownfield sites and other previously disturbed lands; and be it further

RESOLVED, That the study include economic models, including input and output modeling utilizing IMPLAN or comparable economic modeling tools, that explain potential economic impacts to this State:

1. As the State uses energy more productively through the implementation of cost-effective energy efficiency measures and programs;

2. From the reduction of energy imports from outside of the State including, without limitation, the reduction of imports of fossil fuels, including natural gas, petroleum, propane gasoline or other fossil fuels, as Nevada develops its indigenous energy resources;

3. From the reduction of imports of transportation fuels due to the increased use of electric transportation or the use of other alternative fuels produced in this State, including, without limitation, biofuels; and

4. From the electrification of transportation; and be it further

RESOLVED, That, in conducting the study, the Legislative Committee on Energy shall partner or consult with representatives of the Nevada System of Higher Education, the elementary and secondary education system in this State, the National Renewable Energy Laboratory and the private sector, including, without limitation, the existing renewable energy and lithium extraction industries located in this State, and consider input provided by other stakeholders including, without limitation, clean energy developers,



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1 nongovernmental organizations and professionals with expertise
2 regarding energy transmission and the electric grid; and be it further

3 RESOLVED, That the Legislative Committee on Energy shall, if
4 feasible, contract with the University of Nevada, Reno, the
5 University of Nevada, Las Vegas and the Desert Research Institute
6 to conduct a statewide audit to identify energy efficiency measures
7 that could be implemented by agencies of the State of Nevada,
8 determine the costs and benefits of those measures, determine the
9 savings that could be realized by the State of Nevada if those
10 agencies implemented the energy efficiency measures identified in
11 the audit and make recommendations for the implementation of
12 energy efficiency measures by those agencies; and be it further

13 RESOLVED, That the Legislative Committee on Energy shall
14 submit a report concerning the statewide audit to the Legislature and
15 the Governor and provide a copy of the recommendations of the
16 statewide audit to each agency of the State of Nevada; and be it
17 further

18 RESOLVED, That any recommended legislation proposed by the
19 Legislative Committee on Energy must be approved by a majority
20 of the members of the Assembly and a majority of the members of
21 the Senate appointed to the Committee; and be it further

22 RESOLVED, That the Legislative Committee on Energy shall
23 submit a report of the results of the study, including, without
24 limitation, any economic models prepared by or for the Committee,
25 a report of any data collected and presented to the Committee
26 concerning the assessment and development of various sources of
27 renewable and clean energy, the potential impacts of the
28 development of such sources of renewable and clean energy and
29 methods for the conservation of energy and any recommendations
30 for legislation to the 81st Session of the Nevada Legislature.

