

SENATE CONCURRENT RESOLUTION NO. 1—SENATORS SPEARMAN,
BROOKS, DENIS, PARKS; 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.

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

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

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



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

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

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

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

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

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



those facilities and systems, including, without limitation, artificial intelligence used in those facilities and systems; and be it further

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

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

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

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

3. The potential for developing geothermal resources for individual mines and mining districts;

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

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

6. 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;

7. 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

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



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

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

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

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

16 4. From the electrification of transportation; and be it further
17 RESOLVED, That, in conducting the study, the Legislative
18 Committee on Energy shall partner or consult with representatives
19 of the Nevada System of Higher Education, the elementary and
20 secondary education system in this State, the National Renewable
21 Energy Laboratory and the private sector; and be it further

22 RESOLVED, That the Legislative Committee on Energy shall, if
23 feasible, contract with the University of Nevada, Reno, the
24 University of Nevada, Las Vegas and the Desert Research Institute
25 to conduct a statewide audit to identify energy efficiency measures
26 that could be implemented by agencies of the State of Nevada,
27 determine the costs and benefits of those measures, determine the
28 savings that could be realized by the State of Nevada if those
29 agencies implemented the energy efficiency measures identified in
30 the audit and make recommendations for the implementation of
31 energy efficiency measures by those agencies; and be it further

32 RESOLVED, That the Legislative Committee on Energy shall
33 submit a report concerning the statewide audit to the Legislature and
34 the Governor and provide a copy of the recommendations of the
35 statewide audit to each agency of the State of Nevada; and be it
36 further

37 RESOLVED, That any recommended legislation proposed by the
38 Legislative Committee on Energy must be approved by a majority
39 of the members of the Assembly and a majority of the members of
40 the Senate appointed to the Committee; and be it further

41 RESOLVED, That the Legislative Committee on Energy shall
42 submit a report of the results of the study, including, without
43 limitation, any economic models prepared by or for the Committee,
44 a report of any data collected and presented to the Committee
45 concerning the assessment and development of various sources of



1 renewable and clean energy, the potential impacts of the
2 development of such sources of renewable and clean energy and
3 methods for the conservation of energy and any recommendations
4 for legislation to the 81st Session of the Nevada Legislature.

