

1 HR96
2 182595-1
3 By Representative Davis
4 RFD: Rules
5 First Read: 02-MAR-17

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8 SUPPORTING THE DEVELOPMENT OF ADVANCED CARBON

9 EMISSION REDUCTION TECHNOLOGIES FOR POWER GENERATION.

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11 WHEREAS, since 2009, an aggressive policy of

12 decarbonization has been pursued by the United States

13 government; and

14 WHEREAS, in order to supply affordable, reliable

15 electricity, reduce carbon emissions, and grow economies

16 throughout the world, policies that promote the adoption and

17 deployment of carbon capture technology and carbon capture,

18 utilization, and storage technologies must be prioritized; and

19 WHEREAS, the current technologies of carbon capture

20 and sequestration (CCS) and carbon capture, utilization, and

21 storage (CCUS) applied to power generation have not been

22 adequately demonstrated to provide that they can represent the

23 least costly approach to achieving carbon reductions; and

24 WHEREAS, models suggest that the costs of meeting

25 proposed emission limits are 138 percent less when CCS/CCUS

26 technologies are deployed that can achieve the United States

27 Department of Energy's cost and efficiency targets; and

1 WHEREAS, it is imperative to continue funding
2 research, development and deployment of CCUS technologies
3 scalable to power generation applications that can be
4 demonstrated to achieve the necessary cost and performance
5 expectations at commercial scale; and

6 WHEREAS, for CCUS to become a viable, affordable,
7 and very practical solution for fossil-fueled power
8 generation, the research and development focus toward
9 transformational technology development is imperative, such as
10 revolutionary approaches to CO₂ separation and thermal
11 efficiency improvement; transformational technologies such as
12 chemical looping, oxygen-fueled combustion, and alternative
13 power cycles rely on fundamentally different methods of
14 producing energy, alternate fuel-to-energy conversions, or
15 other means of energy production that inherently separate CO₂;
16 and

17 WHEREAS, these types of technologies and the
18 materials, equipment, and components to support them are
19 showing promise at laboratory scale and, if effectively
20 developed, demonstrated, and deployed, can service
21 applications across industries that support all three fossil
22 fuels: coal, natural gas, and oil (petrochemical); and

23 WHEREAS, current research, development, and
24 demonstration funding and risk-mitigation incentives for the
25 necessary development and adequate commercial demonstration of
26 transformational CCS/CCUS simply are not sufficient; and

1 WHEREAS, over the past nine years, the world has
2 invested more than \$1.9 trillion in renewable energy
3 development compared to just \$20 billion in CCS development
4 and due to this lack of parity to these energy policies, the
5 CCS revolution will not occur; and

6 WHEREAS, policies that support the utilization of
7 carbon dioxide in the marketplace must be prioritized so that
8 incentivizing the use of CO₂ in enhanced oil recovery,
9 chemical manufacturing, or other industrial uses will spur
10 more private development in CCS and additional growth in the
11 marketplace; and

12 WHEREAS, by supporting policies to bring CCS/CCUS
13 into greater prominence, carbon emission reduction goals can
14 be met responsibly; affordable, reliable electricity can
15 continue to be provided; economic goals are protected; and the
16 marketplace is stimulated to better utilize and develop
17 applications for carbon dioxide; now therefore,

18 BE IT RESOLVED BY THE HOUSE OF REPRESENTATIVES OF
19 THE LEGISLATURE OF ALABAMA, That this body supports efforts to
20 urge policymakers at the federal level to bring parity to the
21 energy policy of the United States by recognizing the critical
22 role that capture and storage technologies will play in the
23 nation's and the world's attempts to reduce carbon emissions;
24 to work expeditiously on developing long-term policies that
25 will ensure a positive business case for the deployment of
26 capture, storage, and utilization technologies, especially for
27 secondary users of carbon dioxide; and to establish strong

1 policy measures to significantly increase research and
2 development resources leading to adequately demonstrated,
3 proven, and commercially available transformational carbon
4 capture and storage technologies for fossil fuel power
5 generation that further reduce costs and increase efficiency,
6 and we call on policy makers at the federal, state, and local
7 level, in partnership with the electricity generating
8 industry, to work collaboratively on identifying storage sites
9 that meet the necessary characterizations of successful
10 capture and storage projects.

11 BE IT FURTHER RESOLVED, That copies of this
12 resolution be forwarded to Alabama's Congressional Delegation,
13 the Secretary of the United States Department of Energy, the
14 President of the United States, Governor Robert Bentley, and
15 the Energy Division of the Department of Economic and
16 Community Affairs and ADECA Director Jim Byard so that they
17 may know of our deep concerns regarding these matters.