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THE GENERAL ASSEMBLY OF PENNSYLVANIA

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HOUSE RESOLUTION

No. 266 Session of  
2023

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INTRODUCED BY RABB, MADSEN, N. NELSON, MADDEN, SANCHEZ, HILL-  
EVANS, STEELE, CIRESI, FIEDLER AND OTTEN, NOVEMBER 15, 2023

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REFERRED TO COMMITTEE ON CONSUMER PROTECTION, TECHNOLOGY AND  
UTILITIES, NOVEMBER 15, 2023

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A RESOLUTION

1 Directing the Joint State Government Commission to conduct a  
2 study on the feasibility of constructing geothermal systems  
3 in densely populated locations of this Commonwealth and to  
4 issue a report of its findings and recommendations to the  
5 General Assembly.

6 WHEREAS, Geothermal technology, commonly referred to as  
7 ground-source heat pump technology, consists of running pipes  
8 filled with antifreeze liquid as far as 500 feet into the  
9 ground, to a depth at which the temperature is relatively  
10 stable, usually lingering in the low 50° Fahrenheit range; and

11 WHEREAS, Heat is then extracted from the earth and carried  
12 through the liquid-filled pipes to warm buildings; and

13 WHEREAS, The same principle also allows for geothermal  
14 cooling; and

15 WHEREAS, On hot days, a heat pump extracts heat from the air  
16 in the building and transfers that heat energy into the liquid  
17 in the pipes, which then travels downward where the heat is  
18 dispersed into the ground; and

19 WHEREAS, Geothermal systems are among the cleanest and most

1 efficient heating options since the heating and cooling process  
2 uses ground temperatures, often only utilizing fossil-fuel-based  
3 energy to generate the electricity that is needed to operate  
4 heat pumps; and

5 WHEREAS, Utilizing geothermal ground-source heat pump  
6 technology on individual properties can be expensive, which  
7 poses a significant barrier to widespread adoption; and

8 WHEREAS, The concept of establishing geothermal  
9 microdistricts is a means of overcoming these financial  
10 barriers, since this concept involves connecting multiple  
11 customers on a shared loop system; and

12 WHEREAS, This would not only allow the overall cost to be  
13 spread out and evenly shared, but would provide utility  
14 companies with the ability to gradually transition away from the  
15 use of fossil fuels while offering new services; and

16 WHEREAS, Natural gas utility providers already have extensive  
17 experience with drilling, trenching and laying pipe as well as  
18 managing capital-intensive projects and investments in long-term  
19 assets, which would make the natural gas utility providers well  
20 suited to developing large-scale multi-property geothermal  
21 systems; and

22 WHEREAS, As such, if geothermal microdistricts proved  
23 feasible, this could be transformative for advancement of zero  
24 carbon energy, while also lessening this Commonwealth's reliance  
25 on foreign fossil fuels; therefore be it

26 RESOLVED, That the House of Representatives direct the Joint  
27 State Government Commission to conduct a study on the  
28 feasibility of constructing geothermal systems in densely  
29 populated locations of this Commonwealth and to issue a report  
30 of its findings and recommendations to the General Assembly; and

1 be it further

2 RESOLVED, That the study:

3 (1) identify and examine efforts, procedures, measures,  
4 statutes and management responsibilities of State agencies,  
5 nongovernmental organizations and academic institutions to  
6 assist in determining the feasibility of utilizing geothermal  
7 energy for the purpose of establishing geothermal  
8 microdistricts;

9 (2) conduct an economic impact analysis regarding the  
10 widespread utilization of geothermal energy for the purposes  
11 of establishing geothermal microdistricts in this  
12 Commonwealth; and

13 (3) identify best practices regarding the development of  
14 the necessary infrastructure to support the widespread use of  
15 geothermal microdistricts for the production of geothermal  
16 energy;

17 and be it further

18 RESOLVED, That the Joint State Government Commission consult  
19 with stakeholders that:

20 (1) have organizational missions and expertise regarding  
21 consumer affairs, the economy, electricity generation and  
22 distribution, the environment, the reduction of carbon  
23 emissions, the health and safety of Commonwealth residents,  
24 natural gas utility providers, air and water quality issues,  
25 consumer affairs and urban affairs;

26 (2) collect data on any benefits of the utilization of  
27 geothermal energy regarding consumer affairs, the economy,  
28 electricity generation and distribution, the environment, the  
29 reduction of carbon emissions, the health and safety of  
30 Commonwealth residents, consumer utility prices, air and

1 water quality issues and urban affairs; and

2 (3) have knowledge of relevant issues;

3 and be it further

4 RESOLVED, That the Joint State Government Commission prepare

5 a report of its findings and recommendations and submit the

6 report to the General Assembly no later than 18 months after the

7 adoption of this resolution.