

1           AN ACT relating to geoengineering.

2           WHEREAS, "geoengineering" means the intentional manipulation of the  
3           environment, through an atmospheric polluting intervention, to effect changes to the  
4           earth's atmosphere or surface, including but not limited to the practices of weather  
5           modification, solar radiation modification, stratospheric aerosol injection, and cloud  
6           seeding; and

7           WHEREAS, geoengineering activities endanger human health and safety and the  
8           environment, threaten air, water, soil, and wildlife resources, disrupt agricultural  
9           operations, and potentially interfere with aviation, state security, and the economy of the  
10          Commonwealth; and

11          WHEREAS, pursuant to the Tenth Amendment of the Constitution of the United  
12          States and the inherent right for Kentucky citizens to engage in thoughtful deliberation  
13          and determine public policy by voting, the citizens of the Commonwealth do not consent  
14          to any unconstitutional actions or efforts made by the federal government or international  
15          bodies that release atmospheric contaminants into the Commonwealth's atmosphere  
16          through geoengineering, solar radiation modification, cloud seeding, weather  
17          modification, or any other means; and

18          WHEREAS, as recognized by the World Meteorological Organization in guidelines  
19          it adopted in 2017, weather modification activities should not be undertaken without  
20          considering the high levels of uncertainty involved and the potential harm that could  
21          result; and

22          WHEREAS, to preserve the safe and healthful uses of the Commonwealth's  
23          atmosphere for its people, environment, wildlife, and agriculture, and to improve  
24          beneficial climate efforts, it is necessary to prohibit geoengineering, including but not  
25          limited to solar radiation modification, and to provide for enforcement and penalties for  
26          violative activities;

27          NOW, THEREFORE,

1    *Be it enacted by the General Assembly of the Commonwealth of Kentucky:*

2            ➔SECTION 1. A NEW SECTION OF KRS CHAPTER 512 IS CREATED TO  
3    READ AS FOLLOWS:

4    **(1) As used in this section:**

5       **(a) "Atmospheric contaminant":**

6          **1. Means any type of aerosol, biological, nonbiological, or hazardous**  
7          **agent, chaff, chemical, chemical compound, genetically modified**  
8          **agent, metal, radioactive material, substance, vapor, electromagnetic**  
9          **radiation or field, mechanical vibration, particulate of any size, or any**  
10          **air pollutant regulated by the Commonwealth, and any combination**  
11          **thereof; and**

12          **2. Does not include:**

13             **a. Engine exhaust from an aircraft using unadulterated certified**  
14             **aviation fuel; or**

15             **b. Electromagnetic radiation or fields emitted from wireless devices**  
16             **or equipment certified by the Federal Communications**  
17             **Commission;**

18             **(b) "Atmospheric polluting intervention" means any manipulation or**  
19             **interference with earth's natural systems or processes by altering**  
20             **atmospheric or environmental conditions by:**

21             **1. Stratospheric aerosol injection;**

22             **2. Cloud seeding;**

23             **3. Solar radiation modification; or**

24             **4. The intentional release of an atmospheric contaminant from an**  
25             **airborne source that may have harmful consequences on human**  
26             **health, the environment, or agriculture, excluding any release or**  
27             **emission from a ground-level source, including but not limited to an**

industrial or commercial activity or facility, residence, vehicle, or agricultural operation;

(c) "Chaff" means aluminum-coated silica glass fibers, typically dispersed in bundles containing millions of inhalable fibers, which break apart and fall to the ground;

(d) "Cloud seeding" means a type of weather modification that attempts to change the amount or type of precipitation from a cloud by dispersing any one (1) or more atmospheric contaminants into the air;

(e) "Hazardous" means a substance, apparatus, activity, or physical agent that by its nature is harmful to living organisms, property, or any other valuable interest;

(f) "Person" means:

1. Any natural person, trust, firm, joint stock company, corporation, quasi-governmental corporation, nongovernmental organization, public or private partnership, association, syndicate, club, college, or university;

2. Any agency, subdivision, or instrumentality of federal, state, or local government; or

**3. Any interstate or international governance body;**

20 (g) *"Physical agent"* means a source of energy that may cause injury through  
21 *excessive exposure, including but not limited to radiofrequency, microwave,*  
22 *and other electromagnetic radiation and fields, barometric pressure,*  
23 *temperature, gravity, mechanical vibration, and sound;*

24        **(h) "Release" means any activity that results in the issuance of atmospheric**  
25        **contaminants such as the emitting, transmitting, discharging, or injecting of**  
26        **one (1) or more nuclear, biological, chemical, or physical agents into the**  
27        **ambient atmosphere, whether once, intermittently, or continuously;**

### 1            (i) "Solar radiation modification":

2           1. Means an experiment in the earth's climatic system involving the  
3           release of atmospheric contaminants that reduce the amount of  
4           sunlight reaching the earth's surface through the use of interoperable  
5           ground-based, airborne, space-based, or other facilities; and

6 **2. Does not include:**

7                   a. Ground-level solar energy generating resources; or

8                    b. Forestry and vegetation management activities;

12 (k) "Weather modification":

13        1. Means the changing, controlling, or interfering with or attempting to  
14        change, control, or interfere with the natural development of cloud  
15        forms, precipitation, barometric pressure, temperature, conductivity or  
16        other electromagnetic or sonic characteristics of the atmosphere; and

2. Does not include ground-level wind energy generating resources.

18 (2) A person is guilty of criminal atmospheric pollution when he or she intentionally  
19 or wantonly engages in any atmospheric polluting intervention.

20 (3) Criminal atmospheric pollution shall be a Class D felony. Notwithstanding KRS  
21 534.030 and 534.050, and in addition to any other penalties that may apply, a  
22 person guilty of criminal atmospheric pollution shall pay a civil penalty of not  
23 less than five hundred thousand dollars (\$500,000). Each day that a person  
24 engages in criminal atmospheric pollution shall be considered a separate offense.

25 (4) All peace officers of the Commonwealth shall enforce the requirements of this  
26 section, and any person may make a complaint to any peace officer or local law  
27 enforcement official relating to any suspected violation of this section.

1        (5) If any criminal atmospheric pollution has been approved, explicitly or implicitly,  
2        by a federal government agency or official, the arresting officer shall issue a  
3        notice to the appropriate federal agency or official that the criminal atmospheric  
4        pollution intervention cannot lawfully be carried out within or over the  
5        Commonwealth.

6        (6) This section shall not prohibit or restrict the lawful aerial application of  
7        agricultural inputs or products, including but not limited to fertilizers, pesticides,  
8        herbicides, fungicides, biological products, or any other crop production  
9        materials when conducted in compliance with state and federal law by an  
10      applicator licensed under KRS Chapter 217B.