

1 A CONCURRENT RESOLUTION requesting the Legislative Research
2 Commission to examine funding sources and research institutions capable of conducting
3 a feasibility study of advanced nuclear energy technology for electric power generation in
4 the Commonwealth.

5 WHEREAS, advanced nuclear reactor is defined in The Federal Nuclear Energy
6 Innovation Capabilities Act of 2017 as either a nuclear fusion reactor or a nuclear fission
7 reactor with significant improvements over the previous generation of light water reactors
8 designed in the 1950s and 1960s; and

9 WHEREAS, advanced nuclear reactor subsystems are designed to adjust their
10 electricity output to meet electricity demand; therefore, the technologies may be useful in
11 stabilizing the electric grid where there is a high volume of intermittent renewable energy
12 suppliers; and

13 WHEREAS, because advanced nuclear technology has lower capital costs and has
14 smaller nameplate capacity, the deployment of the technology is more responsive to areas
15 of need on the electric grid; and

16 WHEREAS, advanced nuclear energy technology is low carbon and has the ability
17 to lower the overall greenhouse gas emissions of the generation fleet and reduce global
18 warming; and

19 WHEREAS, citizens and industry alike deserve affordable, reliable energy that is
20 not susceptible to the extreme price volatility which has imposed substantial financial
21 burdens on citizens and businesses of the Commonwealth; and

22 WHEREAS, economic development is reliant on stable, low-cost energy; therefore,
23 every effort should be made to ensure that the Commonwealth has the best sources of
24 electric power generation to serve its citizens and businesses;

25 NOW, THEREFORE,

26 ***Be it resolved by the Senate of the General Assembly of the Commonwealth of***
27 ***Kentucky, the House of Representatives concurring therein:***

1 ➔Section 1. During the 2022 Interim, the Legislative Research Commission shall
2 assign to the appropriate interim joint committee or subcommittee thereof, the tasks of:

3 (1) Exploring possible funding sources for a feasibility study on deploying
4 advanced nuclear energy technology in the Commonwealth; and

5 (2) Identifying a consultant, group, university, or other entity with expertise in the
6 area of advanced nuclear technology to perform the study should funding be
7 identified and become available.

8 ➔Section 2. No contract to perform a feasibility study for deployment of
9 advanced nuclear technology shall be let until the terms of the contract are approved by
10 the Legislative Research Commission.