

SENATE COMMITTEE OF REFERENCE AMENDMENT

Committee on Transportation & Energy.

SB22-138 be amended as follows:

1 Amend printed bill, page 4, after line 15 insert:

2 "SECTION 3. In Colorado Revised Statutes, **add** 24-38.5-113 as
3 follows:

4 **24-38.5-113. Feasibility of small modular nuclear reactors as**
5 **a source of carbon-free energy - study - report - definitions -**
6 **appropriation - repeal.** (1) AS USED IN THIS SECTION, UNLESS THE
7 CONTEXT OTHERWISE REQUIRES:

8 (a) "DIRECTOR" MEANS THE DIRECTOR OF THE COLORADO ENERGY
9 OFFICE OR THE DIRECTOR'S DESIGNEE.

10 (b) "SMALL MODULAR NUCLEAR REACTOR" MEANS A NUCLEAR
11 REACTOR THAT:

12 (I) HAS A RATED CAPACITY OF NOT MORE THAN THREE HUNDRED
13 MEGAWATTS OF ELECTRICITY;

14 (II) CAN BE CONSTRUCTED AND OPERATED IN COMBINATION WITH
15 OTHER SIMILAR REACTORS AT A SINGLE SITE IF ADDITIONAL REACTORS ARE
16 NECESSARY; AND

17 (III) HAS BEEN LICENSED BY THE UNITED STATES NUCLEAR
18 REGULATORY COMMISSION AND IS IN COMPLIANCE WITH ALL
19 REQUIREMENTS AND CONDITIONS IMPOSED BY THE COMMISSION.

20 (2) THE DIRECTOR SHALL CONDUCT OR CAUSE TO BE CONDUCTED
21 A STUDY REGARDING THE FEASIBILITY OF USING SMALL MODULAR
22 NUCLEAR REACTORS AS A CARBON-FREE ENERGY SOURCE FOR THE STATE.
23 THE STUDY MUST INCLUDE:

24 (a) AN EVALUATION OF CURRENT STATE LAWS AND REGULATIONS
25 THAT WOULD NEED TO BE AMENDED TO ENABLE THE CONSTRUCTION AND
26 OPERATION OF SMALL MODULAR NUCLEAR REACTORS;

27 (b) AN EVALUATION OF THE ECONOMIC FEASIBILITY OF REPLACING
28 CARBON-BASED ENERGY SOURCES WITH SMALL MODULAR NUCLEAR
29 REACTORS WHILE ACCOUNTING FOR THE NET PRESENT VALUE OF REVENUE
30 REQUIREMENTS THAT WOULD RESULT FROM THE RETIREMENT OF
31 COAL-FIRED PLANTS;

32 (c) AN EVALUATION OF THE SAFETY OF AND THE WASTE STREAM
33 RESULTING FROM THE CONSTRUCTION AND OPERATION OF SMALL
34 MODULAR NUCLEAR REACTORS;

35 (d) AN EVALUATION OF THE PROPERTY TAX BENEFITS TO
36 COUNTIES, SCHOOL DISTRICTS, AND SPECIAL TAXING DISTRICTS IN
37 CONNECTION WITH THE USE OF SMALL MODULAR NUCLEAR REACTORS;

38 (e) AN ESTIMATE OF THE NUMBER OF JOBS THAT COULD BE
39 CREATED AND THE OVERALL IMPACT TO LOCAL ECONOMIES IN
40 CONNECTION WITH THE USE OF SMALL MODULAR NUCLEAR REACTORS;

1 (f) A COMPARISON OF THE RELIABILITY AND COST OF SMALL
2 MODULAR NUCLEAR REACTORS AND THE RELIABILITY AND COST OF
3 NATURAL GAS, WIND, AND SOLAR ENERGY PRODUCTION;
4 (g) IDENTIFICATION OF LOCAL GOVERNMENT PERMITTING
5 REQUIREMENTS OR APPROVALS THAT WOULD BE REQUIRED FOR THE
6 OPERATION OF SMALL MODULAR NUCLEAR REACTORS; AND
7 (h) ANY OTHER INFORMATION DEEMED NECESSARY BY THE
8 DIRECTOR.
9 (3) ON OR BEFORE JULY 1, 2024, THE DIRECTOR SHALL PROVIDE TO
10 THE HOUSE OF REPRESENTATIVES ENERGY AND ENVIRONMENT COMMITTEE
11 AND THE SENATE TRANSPORTATION AND ENERGY COMMITTEE, OR THEIR
12 SUCCESSOR COMMITTEES, A WRITTEN REPORT OF THE FINDINGS AND
13 CONCLUSIONS FROM THE FEASIBILITY STUDY REQUIRED IN SUBSECTION (2)
14 OF THIS SECTION, INCLUDING ANY CONCLUSIONS OR RECOMMENDATIONS
15 REGARDING THE POTENTIAL FOR SMALL MODULAR NUCLEAR REACTORS TO
16 PROVIDE ENERGY IN THE STATE AND ANY RECOMMENDATIONS FOR
17 ADMINISTRATIVE OR LEGISLATIVE ACTION TO PROMOTE THEIR USE.
18 (4) FOR THE 2022-23 STATE FISCAL YEAR, THE GENERAL
19 ASSEMBLY SHALL APPROPRIATE TWO-HUNDRED FIFTY THOUSAND DOLLARS
20 FROM THE GENERAL FUND TO THE COLORADO ENERGY OFFICE FOR THE
21 PURPOSES OF THIS SECTION.
22 (5) THIS SECTION IS REPEALED, EFFECTIVE JULY 1, 2025."

23 Renumber succeeding sections accordingly.

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