



NINETEENTH CONGRESS OF THE)
REPUBLIC OF THE PHILIPPINES)
First Regular Session)

23 JAN 18 P5:19

SENATE
S. No. 1694

RECEIVED BY:

Introduced by **Senator Raffy T. Tulfo**

AN ACT TO SUPPORT RESEARCH AND DEVELOPMENT OF NEW INDUSTRIAL PROCESSES AND TECHNOLOGIES THAT OPTIMIZE ENERGY EFFICIENCY AND ENVIRONMENTAL PERFORMANCE, UTILIZE DIVERSE SOURCES OF ENERGY, AND INCREASE ECONOMIC COMPETITIVENESS

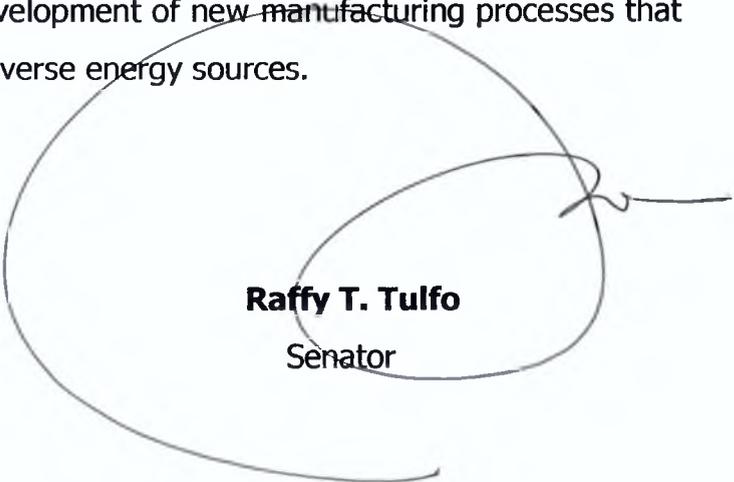
EXPLANATORY NOTE

The Constitution, Article II, Section 20 provides that:

SEC. 20. The State recognizes the indispensable role of the private sector, encourages private enterprise, and provides incentives to needed investments.

As the price of electricity rises due to the rise in the price of oil in the international market, more and more efforts are being made to provide alternative energy sources. As we strive to become more self-sufficient in energy generation, it is critical that we not only seek alternative energy sources, but also promote energy efficiency in industries, particularly the energy-intensive manufacturing sector. We can produce innovations that can be translated into efficiency improvements in buildings, transportation, and other economic sectors that rely on these industries by providing initiatives and incentives to support efforts in developing technologies that provide alternative sources and promote efficient use of energy.

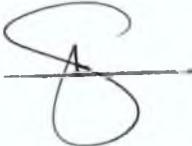
This bill would require the Department of Energy to promote collaborative efforts with industry, particularly the manufacturing sector, in order to broaden and accelerate high-risk research and development of new manufacturing processes that optimize energy efficiency and use diverse energy sources.



Raffy T. Tulfo
Senator

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SOURCES OF ENERGY, AND INCREASE ECONOMIC COMPETITIVENESS**

*Be it enacted by the Senate and House of Representatives of the Philippines in
Congress Assembled:*

1 SECTION 1. Short Title. — This Act shall be known as the "Industrial Energy
2 Efficiency Research and Development Act of 2023."

3 SECTION 2. Industrial Technologies Program. — The Secretary of Energy (in this
4 Act referred to as the "Secretary") shall establish a program, in cooperation with
5 energy-intensive industries, trade and industry research collaborations representing
6 such industries, and institutions of higher education--

7 (1) to conduct energy research, development, demonstration, and commercial
8 application activities with respect to new industrial and commercial processes,
9 technologies, and methods to--

10 (A) achieve substantial improvements in energy efficiency; and

11 (B) enhance the economic competitiveness of the Philippine
12 industrial sector; and

1 (2) to conduct environmental research and development with respect to new
2 industrial and commercial processes, technologies, and methods to achieve
3 environmental performance improvements such as waste reduction, emissions
4 reductions, and more efficient water use.

5 SECTION 3. Program Activities. — Research, development
6 demonstration, and commercial application activities under this section may
7 include—

8 (1) activities to support the development and use of
9 technologies and processes that improve the quality and
10 quantity of feedstocks recovered or recycled from process and
11 waste streams;

12 (2) research to meet manufacturing feedstock requirements with
13 alternative resources;

14 (3) research to develop and demonstrate technologies and processes that
15 utilize

16 alternative energy sources to supply heat, power, and new feedstocks for
17 energy-intensive industries;

18 (4) research to achieve energy efficiency in steam, power, control
19 system, and process heat technologies, and in other manufacturing
20 processes; and

21 (5) a program to fund research, development, and demonstration
22 relating to inventors' and 13 small companies' technology proposals,
23 based on energy savings potential, commercial viability, and technical
24 merit.

25 SECTION 4. Competitive Awards. — All awards under this section shall be made
26 on a competitive, merit-reviewed basis.

1 SECTION 5. Coordination and Nonduplication. The Secretary shall, coordinate
2 efforts under this section with other programs of the Department and other
3 government agencies, to avoid duplication of effort.

4 SECTION 6. Annual Reports. - Not later than 1 year after the date of enactment
5 of this Act, and once every 2 years thereafter, the Secretary shall submit to the
6 Congress a report on the activities conducted pursuant to this Act, including--

7 (1) a description of the activities used to facilitate cooperation with
8 energy-intensive industries, universities, and other participants in the
9 program; and

10 (2) a description of ongoing projects and new projects initiated, and the
11 anticipated energy savings associated with achievement of each project's
12 goals.

13 SECTION 7. University-Based Industrial Research and Assessment Centers.

14 To strengthen the program under section 3, the Secretary shall provide funding
15 to university-based industrial research and assessment centers, whose purpose shall
16 be--

17 (1) to identify opportunities for optimizing energy efficiency and
18 environmental performance;

19 (2) to promote application of emerging concepts and technologies in small
20 and medium-sized manufacturers;

21 (3) to promote the research and development for usage of alternative
22 energy sources to supply heat, power, and new feedstocks for energy
23 intensive industries;

24 (4) to coordinate with appropriate government research offices, and
25 provide a clearinghouse for industrial process and energy efficiency
26 technical assistance resources; and

1 (5) to coordinate with government-accredited technical training centers
2 and community colleges, while ensuring appropriate services to all regions
3 of the country.

4 SECTION 8. Appropriations. — To carry out the provisions of this Act, such
5 amount as hereby necessary is hereby authorized to be appropriated from the
6 National Treasury.

7 SECTION 9. Separability Clause. — If any provision or part hereof, is held invalid
8 or unconstitutional, the remainder of the law or the provision not otherwise affected
9 shall remain valid and subsisting. .

10 SECTION 10. Repealing Clause. — Any law; presidential decree or issuance,
11 executive order, letter of instruction, administrative order, rule or regulation contrary
12 to or is inconsistent with the provision of this Act is hereby repealed, modified, or
13 amended accordingly.

14 SECTION 11. Effectivity Clause. — This Act shall take effect fifteen (15) days
15 after its publication in at least two (2) newspapers of general circulation.

Approved.