

## HR 2781

To establish a research, development, and technology demonstration program to improve the efficiency of gas turbines used in combined cycle and simple cycle power generation systems.

**Congress:** 112 (2011–2013, Ended)

**Chamber:** House

**Policy Area:** Energy

**Introduced:** Aug 1, 2011

**Current Status:** Referred to the House Committee on Science, Space, and Technology.

**Latest Action:** Referred to the House Committee on Science, Space, and Technology. (Aug 1, 2011)

**Official Text:** <https://www.congress.gov/bill/112th-congress/house-bill/2781>

### Sponsor

**Name:** Rep. Tonko, Paul [D-NY-21]

**Party:** Democratic • **State:** NY • **Chamber:** House

### Cosponsors

No cosponsors are listed for this bill.

### Committee Activity

Committee	Chamber	Activity	Date
Science, Space, and Technology Committee	House	Referred To	Aug 1, 2011

### Subjects & Policy Tags

#### Policy Area:

Energy

### Related Bills

No related bills are listed.

## **Summary** (as of Aug 1, 2011)

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Directs the Secretary of Energy (DOE), through the Office of Fossil Energy, to carry out a research, development, and technology demonstration program to improve the efficiency of gas turbines used in power generation systems and to identify the technologies that will lead to gas turbine combined cycle efficiency of 65% or simple cycle efficiency of 50%.

Requires the program to: (1) support first-of-a-kind engineering and detailed gas turbine design for megawatt-scale and utility-scale electric power generation; (2) include technology demonstration through component testing, subscale testing, and full scale testing in existing fleets; (3) include field demonstrations of the developed technology elements to demonstrate technical and economic feasibility; and (4) assess overall combined cycle and simple cycle system performance.

Sets forth as program goals: (1) in phase I, to develop the conceptual design of, and to develop and demonstrate the technology required for, advanced high efficiency gas turbines that can achieve at least 62% combined cycle efficiency or 47% simple cycle efficiency on a lower heating value basis; and (2) in phase II, to develop the conceptual design for advanced high efficiency gas turbines that can achieve at least 65% combined cycle efficiency or 50% simple cycle efficiency on a lower heating value basis.

Directs the Secretary, in selecting program proposals, to emphasize the extent to which the proposal will: (1) stimulate the creation or increased retention of jobs in the United States; and (2) promote and enhance U.S. technology leadership.

Authorizes appropriations.

## **Actions Timeline**

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- **Aug 1, 2011:** Introduced in House
- **Aug 1, 2011:** Referred to the House Committee on Science, Space, and Technology.