

**AMENDMENT TO THE RULES COMMITTEE PRINT
FOR H.R. 8
OFFERED BY MRS. ELLMERS OF NORTH
CAROLINA**

At the end of subtitle A of title I, add the following:

1 **SEC. 11___. STATEMENT OF POLICY ON GRID MODERNIZA-**
2 **TION.**

3 It is the policy of the United States to promote and
4 advance—

5 (1) the modernization of the energy delivery in-
6 frastructure of the United States, and bolster the re-
7 liability, affordability, diversity, efficiency, security,
8 and resiliency of domestic energy supplies, through
9 advanced grid technologies;

10 (2) the modernization of the electric grid to en-
11 able a robust multi-directional power flow that
12 leverages centralized energy resources and distrib-
13 uted energy resources, enables robust retail trans-
14 actions, and facilitates the alignment of business and
15 regulatory models to achieve a grid that optimizes
16 the entire electric delivery system;

17 (3) relevant research and development in ad-
18 vanced grid technologies, including—

1 (A) energy storage;

2 (B) predictive tools and requisite real-time
3 data to enable the dynamic optimization of grid
4 operations;

5 (C) power electronics, including smart in-
6 verters, that ease the challenge of intermittent
7 renewable resources and distributed generation;

8 (D) real-time data and situational aware-
9 ness tools and systems; and

10 (E) tools to increase data security, physical
11 security, and cybersecurity awareness and pro-
12 tection;

13 (4) the leadership of the United States in basic
14 and applied sciences to develop a systems approach
15 to innovation and development of cyber-secure ad-
16 vanced grid technologies, architectures, and control
17 paradigms capable of managing diverse supplies and
18 loads;

19 (5) the safeguarding of the critical energy deliv-
20 ery infrastructure of the United States and the en-
21 hanced resilience of the infrastructure to all hazards,
22 including—

23 (A) severe weather events;

24 (B) cyber and physical threats; and

1 (C) other factors that affect energy deliv-
2 ery;

3 (6) the coordination of goals, investments to op-
4 timize the grid, and other measures for energy effi-
5 ciency, advanced grid technologies, interoperability,
6 and demand response-side management resources;

7 (7) partnerships with States and the private
8 sector—

9 (A) to facilitate advanced grid capabilities
10 and strategies; and

11 (B) to provide technical assistance, tools,
12 or other related information necessary to en-
13 hance grid integration, particularly in connec-
14 tion with the development at the State and local
15 levels of strategic energy, energy surety and as-
16 surance, and emergency preparedness, response,
17 and restoration planning;

18 (8) the deployment of information and commu-
19 nications technologies at all levels of the electric sys-
20 tem;

21 (9) opportunities to provide consumers with
22 timely information and advanced control options;

23 (10) sophisticated or advanced control options
24 to integrate distributed energy resources and associ-
25 ated ancillary services;

- 1 (11) open-source communications, database ar-
2 chitectures, and common information model stand-
3 ards, guidelines, and protocols that enable interoper-
4 ability to maximize efficiency gains and associated
5 benefits among—
- 6 (A) the grid;
- 7 (B) energy and building management sys-
8 tems; and
- 9 (C) residential, commercial, and industrial
10 equipment;
- 11 (12) private sector investment in the energy de-
12 livery infrastructure of the United States through
13 targeted demonstration and validation of advanced
14 grid technologies; and
- 15 (13) establishment of common valuation meth-
16 ods and tools for cost-benefit analysis of grid inte-
17 gration paradigms.

