

House Climate Bill: Complementary Energy Policies

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Goals

- Policies will no longer save more energy. Instead they will—
- **Reduce cost of meeting carbon cap** by
- Addressing market barriers, especially among energy end-users



Efficiency Policies in ACES

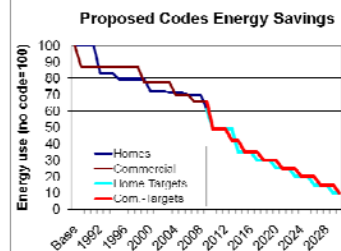


- Buildings:
 - Building codes
 - Building labels
 - Appliance standards + labels
 - Federal energy use + ESPCs
- Utilities:
 - Efficiency + renewable standard
 - Smart grid + transmission
- Industry
- Transportation
 - Vehicle emissions standards
 - Reducing driving through land use planning + transit

Building Energy Codes: Development



- National energy codes with aggressive energy savings targets:
 - 30% savings in 1 year
 - 50% savings in 2014 (homes), 2015 (comm.)
 - 5% more savings every 3 years
- ICC and ASHRAE get first chance, with DOE help
- DOE sets if they don't



Building Energy Codes: Adoption and Compliance

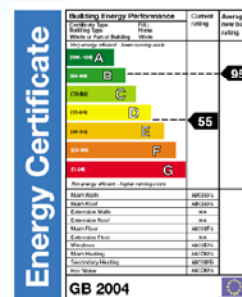


- Direct states to adopt *and* improve compliance
 - 1 year to adopt
 - 90% of building space complies within 5 years
 - DOE help: 0.5% of all allowances for code implementation
- Backstop: Federal code with federal enforcement
- Simplify preemption by appliance standards

Building Efficiency Labels



- EPA to establish model ratings and labels
 - Actual performance and designed performance ratings
 - Build up EIA surveys (CBECS, RECS) as basis
- Implementation:
 - EPA to work with states and local governments



Appliances and Lighting: New Standards



- Lighting
 - Outdoor lighting
 - Portable light fixtures, GU-24, BR lamps
- Other
 - Commercial furnaces
 - Hot food holding cabinets
 - Water coolers + dispensers
 - Electric spas + hot tubs
- TV test procedure



Appliances and Lighting: Standards + Labels Process



- Standards process:
 - Multiple metrics
 - Criteria for setting the standard level
 - Manufacturer sales reporting
 - Petitions for test procedures
 - Enforcement by states, state waiver criteria, preemption of state codes
- Labels
 - Carbon on Energy Guide label
 - Smart grid in Energy Star and Energy Guide
 - Reforms of Energy Star: rating system

Utilities: Efficiency and Renewable Electricity Standard



- Utilities meet 20% of electric demand by 2020 from efficiency and renewables
 - Efficiency up to 5%, or up to 8% on request of governor.
 - *Additional* savings likely around 3%
- Estimated savings from efficiency programs, not a sales limit.
- In-state trading through bilateral contracts
- Also to set peak demand reduction goals

Transportation



- Light duty vehicle emission standards
- Emission standards for trucks, trains, ships, and airplanes
- Require states to set emissions reduction goals and large MPOs to set transportation plans that meet them.





Authorizations

- Building energy code implementation
- REEP building retrofits
- Building labeling programs
- Manufactured home replacement
- “Best-in-class” appliance program
- Waste heat recovery grants
- Vehicle electrification and plug-in vehicle programs
- SmartWay heavy duty vehicle program
- Clean Energy Innovation Centers
- Low Income energy efficiency program



Savings Estimates

- Potential energy and carbon savings from key policies:

	Year	Energy Savings	CO ₂ Savings
Building Codes	2030	3 Quads	200 MMT
Appliance Standards	2020	0.2 Quads	12 MMT
Electricity Standard	2020	1 Quad	58 MMT

Thank You!



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