

## Economy-wide Cap-and-Trade Proposals in the 110<sup>th</sup> Congress

Includes Legislation Introduced as of December 18, 2007

Bill	Scope of Coverage	2010-2019 Cap	2020-2029 Cap	2030-2050 Cap	Allocation	Offsets and Other Cost Controls	Early Action	Technology and Misc.
<b>Lieberman-Warner</b> S. 2191 – 10/18/2007  Lieberman-Warner Climate Security Act of 2007  Version passed by the Senate Environment and Public Works Committee 11-8 on 12-5-07	All 6 GHGs  Economy-wide, “hybrid” – upstream for transport fuels & natural gas; downstream for large coal users; separate cap for HFC production	4% below 2005 level in 2012	19% below 2005 level in 2020	37% below 2005 level in 2030  55% below 2005 level in 2040  70% below 2005 level in 2050	Increasing auction: 26.5% in 2012, rising to 69.5% from 2031- 2050  Some sector allocations are specified including: 19% to power plants and 10% to manufacturers (transitions to zero in 2031), 11% to states, 9% to load serving entities (LSEs)  5% set-aside for domestic agriculture and forestry	15% limit on use of domestic offsets  15% limit on use of international emission allowances  Borrowing up to 15% per company  Creates Carbon Market Efficiency Board to monitor the trading market and implement specific cost relief measures, including increased borrowing and use of offsets	5% of allowances for early action in 2012, phasing to zero in 2017	Bonus allocations for carbon capture and storage  Funds and incentives for technology, adaptation, & mitigating effects on poor  Cap-and-trade system performance and targets subject to 3-year NAS review
<b>Bingaman-Specter</b> S. 1766 – 7/11/2007  <a href="#">Low Carbon Economy Act</a>	All 6 GHGs  Economy-wide, “hybrid” – upstream for natural gas & petroleum; downstream for coal	2012 level in 2012	2006 level in 2020	1990 level in 2030  President may set long-term target ≥60% below 2006 level by 2050 contingent upon international effort	Increasing auction: 24% from 2012-2017, rising to 53% in 2030  Some sector allocations are specified including: 9% to states, 53% to industry declining 2%/year starting in 2017  5% set-aside of allowances for agricultural	Provides certain initial categories including bio sequestration and industrial offsets  President may implement use of international offsets subject to 10% limit \$12/ton CO <sub>2</sub> e “technology accelerator payment” (i.e., safety valve) starting in 2012 and increasing 5%/year above inflation  Allows banking	From 2012-2020, 1% of allowances allocated to those registering GHG reductions prior to enactment	Bonus allocation for carbon capture and storage  Funds and incentives for technology R&D  Target subject to 5-year review of new science and actions by other nations
<b>McCain-Lieberman</b> S.280 – 1/12/2007  <a href="#">Climate Stewardship and Innovation Act</a>	All 6 GHGs  Economy-wide, “hybrid” – upstream for transportation sector; downstream for electric utilities & large sources	2004 level in 2012	1990 level in 2020	20% below 1990 level in 2030  60% below 1990 level in 2050	Administrator determines allocation/auction split; considering consumer impact, competitiveness, etc.	30% limit on use of international credits and domestic reduction or sequestration offsets  Borrowing for 5-year periods with interest	Credit for reductions before 2012  Early actors may use offsets to meet 40% of reductions	Funds and incentives for tech R&D, efficiency adaptation, mitigating effects on poor

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<b>Sanders-Boxer</b> S.309 – 1/16/2007 <a href="#">Global Warming Pollution Reduction Act</a>	All 6 GHGs Economy-wide, point of regulation not specified	2010 level in 2010 2%/year reduction from 2010-2020	1990 level in 2020	27% below 1990 level in 2030. 53% below 1990 level in 2040 80% below 1990 level in 2050	Cap and trade permitted but not required. Allocation criteria include transition assistance and consumer impacts	Includes provision for offsets generated from biological sequestration “Technology-indexed stop price” freezes cap if prices high relative to tech options	Program may recognize early reductions made under state or local laws	Standards for vehicles, power plants, efficiency, renewables, certain categories of bio sequestration
<b>Kerry-Snowe</b> S.485 – 2/1/2007 <a href="#">Global Warming Reduction Act</a>	All 6 GHGs Economy-wide, point of regulation not specified	2010 level in 2010	1990 level in 2020 2.5%/year reduction from 2020-2029	3.5%/year reduction from 2030-2050. 62% below 1990 level in 2050	Determined by the President; requires unspecified amount of allowances to be auctioned	Includes provision for offsets generated from biological sequestration	Goal to “recognize and reward early reductions”	Funds for tech. R&D, consumer impacts, adaptation  Standards for vehicles, efficiency, renewables, certain categories of bio sequestration
<b>Olver-Gilchrest</b> H.R. 620 – 1/22/2007 <a href="#">Climate Stewardship Act</a>	All 6 GHGs Economy-wide, “hybrid” – upstream for transportation sector; downstream for electric utilities & large sources	2004 level in 2012	1990 level in 2020	22% below 1990 level in 2030 70% below 1990 level in 2050	Administrator determines allocation/auction split; considering consumer impact, competitiveness, etc.	15% limit on use of international credits and domestic reduction or sequestration offsets  Borrowing for 5-year periods with interest	Credit for reductions before 2012  Early actors may use offsets to meet 35% of reductions	Funds and incentives for tech R&D, efficiency adaptation, mitigating effects on poor
<b>Waxman</b> H.R. 1590 – 3/20/2007 <a href="#">Safe Climate Act of 2007</a>	All 6 GHGs Economy-wide, point of regulation not specified	2009 level in 2010 2%/year reduction from 2011-2020	1990 levels in 2020 5%/year reduction from 2020-2029	5%/year reduction from 2030-2050 80% below 1990 levels in 2050	Determined by the President; requires unspecified amount of allowances to be auctioned	Not specified	Goal to “recognize and reward early reductions”	Standards for vehicles, efficiency, renewables