



**ENERGY WORKING GROUP
DRAFT RECOMMENDATIONS**

Recommendation	Econ Benefits	Enviro Benefits	Health Benefits	Social Benefits	Level of Effort	Benefit Relative to Cost	Timeframe (Short, Medium, Long)	Overlap with Other Working Groups	Working Group Votes	Meeting 5 Votes	Comments	Responsible Agencies or Partners	Potential Indicators	Types of Actions Needed (policy change, legislation, funding, community, etc.)
District will use 20% renewables by 2020, 35% renewables by 2025, and 80% renewables by 2050, and optimize the distance from energy creation to use to minimize wasted energy (line losses)--the 80% by 2050 number matches Rocky Mountain Institutes "Reinventing Fire" goals									24	34	Target too low - 100% renewables by 2050. Shorten timeline 10-15 years	SEU, DDOE	% of renewables gener., Technology type, by use and by production	Policy, Legislation, Add'l funding for DDOE/SEU for support staff & marketing
Phase in Clean Alternatives Technologies Standard (CATS) from 2015-2025 to reduce carbon emissions from DC electricity supply, reducing CO2 intensity by 60%. Enact CATS legislation by the end of 2013. Become carbon free by 2033.		H	H		L	H	M	Climate	23	82		DDOE, City Council, Amer. Nursing Assoc., Amer. Cancer Assoc., Sierra Club, other enviro and health NGOs	60% from benchmark, Benchmark should set a percent of yearly objectives	Legislation, Advocacy
Identify existing community hubs in each ward to serve as Sustainable DC information and resource centers by the end of 2013, and identify partners to support and supplement programming									21	43		HUB DC, Affinity Lab, Peoples Council, DPR	One hub per Ward, open 10-12 hours per day	Funding, Marketing, Staff for implementation, Communications
Become an incubator for green/clean tech companies								Green Economy	20	16		DOES, VC Cos., DSLBD, DMPED, Univ. & High/Trade Schools, SEU, DDOE	Established Structure, # of companies in DC, Comp, adding growth, # of jobs created	Funding, Legislation for tax incentives, Public/Private Partnership
Align regulations and tax policy to promote renewable development									20	15		City Council, DDOE	% of renewables gener., Technology type, by use and by production	Policy, Legislation, Add'l funding for DDOE/SEU for support staff & marketing
Reduce total energy consumption in the District 5% by 2015 and progressively thereafter with the eventual goal of 60% reductions by 2035 (measured in kWh and therms, not including transportation energy). Refer to ACEEE study and base year.	H	H	H	H	L	H	S/M	Built Environment, Climate, Green Econ	20	33		SEU, DDOE, DC Water, Property Holders	Measurable Reductions # of Participants	Funding for community engagement
Speed up time frame for adoption through public involvement and possible legislation. Get current DC dynamic pricing docket moving into active public participation by June 2012									16	15		PSC, Pepco, DDOE, City Council	Pilot Implemented	Approval
By 2014, create additional consistent funding mechanisms for energy efficiency and renewable energy									16	18	Feed-in tariff for renewable utility rebates. Require utilities to offer on-bill financing to finance energy efficiency upgrades	DDOE, CFO, City Council, DOE, Financial Markets	# of projects & types \$ of projects	SEU contract parameters Financial Market Support
Incentivize investment in "campus" microgrids, distributed generation, and r&d, and create dedicated funding source for pilot programs. Take into consideration recommendations of the study on the potential for co-generation and district energy in the DC area that was conducted by Washington Region Council of Governments in 2011.									15	9		DDOE, DMPED, OP, Utilities, Universities, Hospitals, DOE	Completed Draft Plan Incentives Created	Zoning changes, Explore PUD options, legislation changes, interconnection changes
By 2015, pass legislation (sometimes called "Energy Conservation Ordinances") that requires energy audits and disclosure for all buildings at point of sale.								Built Environment	13	35	Similar goal in Built Environment Working Group	City Council, DDOE, DCRA, DCBIA	Legislation Enacted	Legislation Drafted
Use public space for renewable power generation where appropriate								B.E., Transpo G.E., Nature	11	22		DDOT, DCPS, DPR, DC Water, DGS	Define public space Annual potential Tally of installs Survey of military sites	Funding, Legislation, Policy for Reporting
Ensure that there is utility incentive for efficiency and decouple rates for Washington Gas									11	17				
By 2015, do a baseline feasibility study of individual and multiple buildings, public and private (zone heating) system of ground source heat pump potential.								B.E.	8	6		DDOT, SEU/DDOE, DOE, BIDs, ACOBA, DOT/DOE (funding) DGS, GSA Large Property Owners	Funding Identified RFP, Reporting and Recommendation	Funding
By 2015, expand the capacity of the DC Sustainable Energy Utility to provide financing by creating a legal framework that gives the SEU access to bonding authority and makes possible public-private financing such as power purchase agreements with low-cost capital and agreements with energy service companies for energy efficiency investments with performance guarantees.									8	2				
By 2015, explore, study and support the feasibility of a regional carbon tax initiative.								Climate, B.E. G.E., Waste	8	22	Revenue-neutral carbon tax (fee-and-divident approach)	Same as #13	Same as #13	Same as #13
By 2017, 100% of all K-12 students (both DCPS and charters) receive energy education, as part of science/math courses K-8, and then as a stand alone offering in grades 9-12. All schools should select an energy/sustainability department head and create green committees of students and faculty by 2017 as well.								Climate	8	15	Very important, overlaps with all groups	OSSE, DCPS, PBS Teachers, Koshland Science Museum, MOCO Enviro Literacy Curriculum, Discovery Education, DOE's K-12 lessons	EE improvements in schools, # of DC Sciece Fair projects in Energy, Green and sust. Comm. Participation in schools	Dedicated funding for teacher training and new salaried position

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By 2015--10%--and by 2030--100%--of low-income housing will receive the most appropriate energy upgrades through available financing options. District should immediately begin to retrofit low-income housing where city pays the utility bills, and research financing options where tenants covers bills.									7	15		DHCD, DC Green Communities Init., DC HFA, CNHED, Jubilee Housing, Mi Casa, HAND, SEU, City First Homes	% of income that goes towards energy costs, % reduction in subsidy demand for low income (meas./capita and adj. For weather)	Public awareness camp., Alignment with Green Building Act, Ensure subsidies for low-income cons. Promote energy investments
Prioritize implementing/feasibility of cogeneration opportunities and technologies									5	7		SEU, DDOE, GSA, Univ., PSC, EPA CHP Partnership, Utilities, Pareto, Honeywell, Ameresco, Burns and McDonnell, MWCOG	% of power/heat prov. By CHP % of campuses using cogeneration (incl. WRAMC, St. E's, Capitol, Etc.)	Factor thermal offsets into air emissions and CATS (CESA of 2012), Bridge agreements (Energy Improvement Districts), Require Decrease of fossil fuel inputs over time, Util. cooperation, require facil. Assessments in new cons. Over a certain size, credit enhancement (gov. insur.)
Convert all DC pools to solar thermal									5	6		DOH, DPR, Hotels, Gyms, Schools/Univ., Skyline Innovations, Standard Solar, Clean Currents	% of converted pools	Inclusion in green building requirements
Expand PACE beyond large commercial, deploy \$2 billion of private capital financing for energy efficiency and renewable energy retrofits									5					
By 2014, ensure that a waste-to-energy study to analyze best technology and viability in the District is completed								Waste	3			DDOE, PSC, DPW	Study is completed on time	Hire consultant Allocate funding
By 2013, build an overlay/GIS map to identify high and low energy use in the city								B.E.	3	2		DDOE, Pepco, Wash Gas, OCTO	Zip Code Level - 2013 Block Level - 2014 Commercial Area - 2015	Legislation
By 2013, create accurate baseline data for residential and commercial properties									3			DDOE		Energy Study
Mandate analysis of renewables on new construction and implement economically feasible measures								B.E.	2	2				Define "economically feasible, Legislation
By 2017, 100% participation in Smart Meter Usage in 5 years (not just deployment but consumer awareness and participation									2		Pepco has depolyed smart meters throughout the District of Columbia since October of 2010 - 92% of total number installed to date. This recommendation speaks to both deployment, awareness and participation. Participation should be defined. Target 100% deployment by the first quarter of 2012 and activation by June 2012 (District wide).	PSC, Mayor, Pepco	% of people participating	See #3 and #7