Clean Energy Analysis Tools					
Tools/Organization	**Type**	**Description**	**Inputs**	**Outputs**	**URL/Source**
Tools for Assessing Building Performance					
Portfolio Manager (ENERGY STAR)	Web-based tool	• Enables states to rate their facilities' energy performance and identify priority opportunities. • Assists states in applying for the ENERGY STAR label for facilities scoring 75 or higher.	• Facility space type. • Meter information. • Energy type. • Energy use.	• ENERGY STAR energy performance rating (1–100). • Portfolio profile, including information on status, progress, financials, performance, environment, and energy intensity.	http://www.energystar.gov/index.cfm?c = evaluate_performance.bus _portfoliomanager
Target Finder (ENERGY STAR)	Web-based tool	• Allows states to assess the design of new buildings and compare simulations with existing buildings, based on data provided. • Helps set energy performance goals and receive an energy rating for design projects.	• Facility location, type, size, occupancy, number of computers, and operating hours per week. • Energy target rating or energy reduction target, energy source, estimated energy usage, and energy rate.	• Projected ENERGY STAR energy performance rating (1–100). • Projected energy reduction (%) (from an average building). • Projected energy use intensity. • Projected annual source energy use. • Projected site energy use. • Projected energy costs.	http://www.energystar.gov/index.cfm?c = new_bldg_design.bus_tar get_finder
Small Business Calculator (ENERGY STAR)	Web-based calculator	• Estimates a facility's energy intensity and potential energy cost savings from upgrades.	• Facility size. • Facility type. • Previous 12 months energy bill figures.	• Energy intensity (energy used per square foot). • Potential cost savings from energy efficiency upgrades.	http://www.energystar.gov/index.cfm?c = small_business.sb_calcul ate
Life-Cycle Cost Program (National Institute of Standards / Technology)	Computer software	• Enables states to evaluate alternative designs that may have higher initial costs, using a life-cycle costing method.	• Initial and contract costs • Base-year energy costs. • Maintenance and repair costs. • Time period. • Emissions inputs.	• Costs and benefits of energy and water conservation and renewable energy projects. • Economic analyses (net savings, savings-to-investment ratio, rate of return, payback period).	http://www1.eere.energy.gov/femp/information/downl oad_blcc.html

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Emission Inventory Tools					
Clean Air and Climate Protection Software (National Association of Clean Air Agencies)	Computer software	• Tracks emission reductions and forecasts emissions from proposed reduction measures. • Develops government baseline inventory.	• Fuel and energy use by type of source (e.g., coal, solar, wind). • Sector information. • Emissions factors (default provided)	• Equivalent GHG emissions from fuel and electricity use, presented in reports outlined by sector, by location, by source, or by indicator.	http://www.cacpsoftware.org/
Greenhouse Gas Equivalencies Calculator (U.S. EPA)	Web-based calculator	• Translates GHG reductions into terms that are easier to conceptualize. States can also use the calculator "in reverse."	• Quantity of emission reductions (e.g., metric tons of CO_2 equivalent).	• Gallons of gasoline not consumed. • kWh of electricity not consumed. • Number of cars and light trucks not driven in one year.	http://www.epa.gov/cleanenergy/energy-resources/calculator.html
e-GRID (U.S. EPA)	Online database	• Allows states to obtain information on power plants. • Develop emissions inventories for buildings.	• Year of data. • Plant(s) or state(s) of interest.	• NO_x, SO_2, CO_2, and mercury, with emissions reported in tons, input and output rates. • Generation resources mix, in MWh and percentage.	http://www.epa.gov/cleanenergy/egrid/index.htm
State Inventory Tool (EPA; under development**)**	Interactive spread-sheet	• Enables states to develop GHG emissions inventories	• State-specific data (pre-loaded default data used otherwise)	• Comprehensive GHG emissions inventory covering multiple industry sources	http://www.epa.gov/climatechange/wycd/stateandlocalgov/analyticaltools.html
Emissions Forecasting Tool (EPA; under development)	Interactive spread-sheet	• Enables states to forecast business-as-usual emissions through 2020	• State assumptions relating to future growth and consumption patterns	• Estimation of future emissions through linear extrapolation of State Inventory Tool output and federal forecasts	http://www.epa.gov/climatechange/wycd/stateandlocalgov/analyticaltools.html

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Community-Level Energy Saving Tool					
Community Energy Opportunity Finder (Rocky Mountain Institute)	Web-based calculator	• Helps identify potential community benefits resulting from energy efficiency upgrades and renewable energy opportunities.	• Community and building characteristics. • Building energy consumption. • Energy costs. • Emissions data.	• Energy savings. • Dollar savings. • Reductions in CO_2, NO_x, and SO_2 emissions. • Job creation.	http://www.energyfinder.org
Financial and Economic Analysis Tool					
Cash Flow Opportunity Calculator (ENERGY STAR)	Web-based calculator	• Calculates the amount of equipment that can be purchased using anticipated savings. • Compares costs of financing and waiting for cash.	• Facility size. • Energy costs and savings target • Financing rate and term. • % savings to be committed to upgrades.	• Suggested spending on energy efficiency ($/ft^2). • Potential lost savings due to waiting one year to avoid financing. • Potential cost of waiting for better interest rate.	http://www.energystar.gov/ia/business/cfo_calculator.xls