Model Green Building Ordinance For Municipalities Open for Comment

In 2009, the residential and commercial building sector was responsible for more than 50 percent of total annual U.S. energy consumption, 74 percent of total U.S. electricity consumption, and 39 percent of total U.S. greenhouse gas emissions.

There has been a growing movement to encourage “green buildings”—those that generally use water, energy and materials more efficiently than conventional buildings, and utilize design, construction and siting features to reduce their negative environmental impacts.

The energy efficiency and other environmental features of buildings are primarily matters of local control. New York and most other states have state energy efficiency codes, but their enforcement is left to municipalities, and these codes only set forth minimum levels. The last several years have seen a proliferation of municipal ordinances around the country requiring green building practices beyond these state codes. These ordinances vary widely in their design, content and coverage, and in the quality of their drafting. This patchwork of laws complicates the work of architects, engineers and lawyers who must try to conform their clients’ projects to local requirements. Many opportunities are lost to improve the energy and water efficiency of buildings.

In an effort to address these problems, Columbia Law School’s Center for Climate Change Law (CCCL) has undertaken an effort to draft a model municipal ordinance on green buildings. The first step was to compile as many such existing ordinances and policies as possible; we found 163 of them, and have posted them on our Web site.4 We then analyzed them to find their best features and create a model ordinance. We have posted this model, together with detailed commentaries on its features, the rationale behind the choices it embodies, the associated legal issues, and various optional add-ons that municipalities may wish to consider.5 The model and commentary are primarily the work of lawyers at CCCL and Arnold & Porter, with several outside reviewers, including the Center for Code Reform.

We are now inviting comments on this draft model.

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We concluded that considering and adopting this level of specification was beyond the capabilities of most smaller municipalities. Instead, we have looked to what has emerged as the nation’s leading system of green building standards, the Leadership in Energy and Environmental Design (LEED) rating system of the non-profit U.S. Green Building Council (USGBC). LEED is a point-based system; different building or site features entitle a project to a certain number of points. If enough points are accumulated, the building may receive a certain level of LEED certification. This level of certification may increase from the plain vanilla (certified) to, progressively, silver, gold and platinum. The LEED system is being updated on an ongoing basis, and new versions are also appearing to reflect different kinds of projects—e.g., new construction, rehabilitation of existing buildings, health care facilities, and others.

The CCCL model ordinance starts with the LEED NC-3.0 standard, which is the latest standard for new construction and major modifications. We designate the silver level, which is the level most often adopted by the existing green building ordinances that we found. Since many factors other than energy provide for LEED points, the model ordinance has the option of also requiring a certain minimum number of points from among those specifically pertinent to energy.

Because the standards are evolving, the model ordinance provides that a municipality may take administrative action (without requiring a new vote by its city council or other governing body) to move to a different standard, provided that standard meets certain criteria specified in the ordinance. For those municipalities that are uncomfortable allowing an administrative official to adopt a different standard, the model ordinance provides an option specifying that the municipality’s governing body adopts these changes. We rejected the idea (adopted in some places) of automatically adopting revised standards as they are released by the USGBC that would raise concern about improper delegation of governmental authority to non-governmental entities.

The USGBC certifies buildings under its standards, but this has sometimes led to long delays, and the same delegation problem arises if USGBC certification is required by the law. Thus, the model ordinance requires that, in order to obtain a building permit, the application must demonstrate that the building is designed to achieve the 50 LEED points required for silver-level certification. In other words, the building does not have to be certified by the USGBC but must only merit the number of points required to achieve LEED silver.

Once the building is completed, it would receive a certificate of occupancy only when it was determined to have achieved these points. If during construction it turns out that certain planned points cannot be achieved, leaving the building short of the number of points required for LEED silver, a temporary certificate of occupancy may be available until either those points are achieved or satisfactory mitigation measures are taken. Some existing ordinances provide that a building permit cannot be issued unless the building has been LEED certified, but that presents problems—the certification is not available until after construction is complete.

This LEED silver requirement would apply to new construction of municipal buildings.
commercial buildings, and high-rise multifamily residential buildings, provided the buildings are at least 5,000 square feet in size. It would also apply to major modifications of such buildings (defined as rehabilitation work in at least two major building systems; construction work affecting at least half the building’s floor area; or construction increasing the square footage by at least half).

LEED is not well suited for smaller buildings. Thus, for new construction of one- and two-family dwellings, and low-rise multifamily residential buildings, the model ordinance instead requires an adequate rating under the Energy Star Homes Rating System, a set of guidelines for energy efficiency developed by the U.S. Environmental Protection Agency and the U.S. Department of Energy. We have not required that small dwellings undergoing renovation earn such a rating out of concern that this could unduly raise the cost of many kitchen and bathroom renovations.

Implementation

Determinations of compliance with the LEED standards, Energy Star ratings, and other requirements would be made by a Green Building Compliance Officer, a municipally designated official; it will often but not always be the building inspector. This official is empowered to conduct inspections, issue stop work orders, and take other enforcement actions. Smaller towns and villages may not be able to support an inspector with sufficient training to make these determinations; the model ordinance is accompanied by a model inter-municipal agreement that would allow several municipalities to pool their resources in hiring inspectors.

Applicants may apply for a partial exemption from the requirements based on hardship or infeasibility. Some of the factors that could lead to such an exemption include unavailability of the necessary green building materials or technologies, or incompatibility of green building requirements with other governmental rules. Optional provisions would also allow municipalities to exempt some historic buildings, or buildings where the added cost of complying with the green building standard would exceed a set percentage. Appeals from determinations of the Green Building Compliance Official may be made to an appellate body designated by the municipality (typically the board of zoning appeals).

Options

The green building laws of New York City and Washington, D.C. provide for benchmarking—a process under which a building’s energy and water usage is compared to that of comparable buildings. Washington, D.C. provide for benchmarking—a process under which a building’s energy and water usage is compared to that of comparable buildings. The model ordinance includes a sample resolution that would authorize the municipality to adopt a PACE program.

Legal Issues

A number of potential legal issues have been raised in connection with green building ordinances. We have attempted to draft an ordinance that would have none of the identified vulnerabilities. We have posted a working paper analyzing each of these issues. These are the principal items:

Federal preemption. The federal Energy Policy and Conservation Act’s preempts state and local regulation of appliances that are covered by federal efficiency standards. The model ordinance does not mandate any appliance standards. Certain LEED points could be gained by use of especially efficient appliances, but the selection of which LEED points to seek, and how to obtain them, is left up to the applicant.

The model ordinance provides procedural options if any actual inconsistencies are found between the LEED or Energy Star requirements, on the one hand, and the preemptive federal or state codes, on the other hand.

State preemption. The New York State Energy Conservation Construction Code establishes energy efficiency standards to be enforced by municipalities, but it explicitly allows municipalities to adopt more stringent requirements. The New York State Uniform Fire Prevention and Building Code does generally preempt inconsistent provisions on such subjects as fire safety, fuel gas, and plumbing. Again, certain LEED points might be gained by devices that go beyond what is required by the Fire Prevention and Building Code, but the ordinance does not require selection of these devices. The model ordinance provides procedural options if any actual inconsistencies are found between the LEED or Energy Star requirements, on the one hand, and the preemptive federal or state codes, on the other hand. Should serious questions arise in this regard, the New York State Code Council has the power to grant waivers from the state codes.

Non-delegation. Local legislative bodies may not relinquish legislative functions to private individuals, associations or corporations. The model ordinance does not do so; it adopts certain standards from the USGBC and the Energy Star program, but the municipality retains control over revisions to and enforcement of these standards.

Incorporation by reference. The New York State Constitution bars incorporation by reference of outside laws. However, the courts have interpreted this to apply only to incorporation of actual laws, and not of standards created by third-party organizations. This issue arose when New York City adopted an ordinance regulating bats used in high school baseball games, incorporating by reference the bat rules of Major League Baseball. The U.S. District Court found this to be permissible.

Antitrust. Two parts of the model ordinance may raise antitrust issues. One of the LEED credits requires use of wood that has been certified by the Forest Stewardship Council, which could disadvantage non-certified wood producers. The model ordinance also provides that Energy Star ratings must be assessed by people with certain qualifications, disadvantaging persons without those qualifications. Aside from the reasonableness and noncompetitive purposes of these requirements, municipalities that are advancing state policies have important immunities from the antitrust laws.

Comments Sought

We request that any comments be submitted to michael.gerrard@law.columbia.edu by Sept. 13, 2010. After that we will prepare a revised version that reflects the comments received. It is our hope that municipalities will then consider adoption of this ordinance. The law is designed for New York state municipalities, but with minor revisions it can be adopted for use in other states. Meanwhile, we are working on model ordinances on the siting of renewable energy facilities such as wind and solar installations.