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ENERGY RATINGS HIT COMMERCIAL REAL ESTATE - CALIFORNIA LIGHTS THE WAY

Jonathan Cahill*

Abstract................................................................................................................. 273
I.  Introduction ...................................................................................................... 274
II.  California’s AB 1103 ...................................................................................... 275
III.  Mandatory Energy Rating and Disclosure—An International Trend............. 278
   A.  International Response ........................................................................ 279
       1.  Australia ....................................................................................... 279
       2.  Denmark ....................................................................................... 280
       3.  Europe .......................................................................................... 281
   B.  Mandatory Energy Rating and Disclosure in the United States........... 282
       1.  Washington, D.C. ........................................................................ 283
       2.  Austin, TX .................................................................................... 283
       3.  Washington State ......................................................................... 284
       5.  New York City, New York .......................................................... 285
IV.  Analysis ......................................................................................................... 286
   A.  Comparison of Existing Energy Disclosure Legislation ..................... 286
       2.  Energy Disclosure Legislation as a Market Force ......................... 288
   B.  Blueprint for Effective Energy Disclosure Legislation ....................... 289
   C.  Comparison of AB 1103 to the Blueprint ............................................ 292
V.  Impact ............................................................................................................. 296
   A.  The Real Estate Industry’s Response to Energy Disclosure Law .......... 296
   B.  Economic Impact ................................................................................. 297
VI. Conclusion ..................................................................................................... 299

ABSTRACT

The Energy Star Program has been extremely successful for consumer appliances and electronics, but can this success translate to commercial real estate? In the United States, commercial buildings account for nearly nineteen percent of energy-related carbon dioxide emissions. Consequently, energy rating of buildings has become an increasingly attractive way to combat pollution and lower energy consumption. Despite this, the United States does not yet have a federal policy requiring energy usage disclosure for buildings. This has left state and local governments to lead the way in innovative and effective reporting regimes. California’s response to this regulatory vacuum is Assembly Bill 1103 (AB 1103),
which requires commercial buildings to be rated using the Environmental Protection Agency’s Energy Star Program. While AB 1103 has yet to go into effect, its success can be predicted by the advances and setbacks experienced by similar legislation internationally. This article contrasts existing commercial energy rating systems against AB 1103 in an attempt to project its potential successes and pitfalls.

I. INTRODUCTION

Walk into any store and products will boast features and gimmicks aimed at capturing the imagination and dollars of the consumer. Advertising promises the sharpest resolutions, the fastest speeds, and the most powerful processing. Yet one small sticker has found its way onto appliances of all types: the Energy Star label. Not so much a product of marketing finesse as of legislative fiat, this symbol has developed a caché that the cleverest corporate agencies could never hope to match. Energy Star has shown great promise for consumer appliances, but can the elements that worked at the electronics store be carried over to the real estate market?

Internationally, buildings account for nearly forty percent of global energy demand and a comparable share of global greenhouse gas emissions. In the United States, commercial buildings alone account for nearly nineteen percent of energy-related carbon dioxide emissions. Consequently, energy rating of buildings has become an increasingly attractive way to combat carbon emissions and lower energy consumption. The goal of such ratings is to create a competitive and informed marketplace which values energy efficiency, as well as to encourage building owners to retrofit their buildings to be more efficient. Despite this, the United States does not yet have a federal policy requiring energy usage disclosure for buildings. As such, state and local governments have led the way in innovative and effective reporting regimes.

California’s response to this regulatory vacuum is Assembly Bill 1103 (AB 1103), which requires commercial buildings to be rated using the Environmental Protection Agency’s (EPA) Energy Star Program. This article examines the reach and impact of California’s AB 1103 and its place in the global movement for mandatory energy rating and disclosure systems for commercial buildings.

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2 Id.

3 Id.

4 Id.

5 2007 Cal. Legis. Serv. 533 (West) (also referred to as AB 1103). The provisions of AB 1103 were codified in CAL. PUB. RES. CODE § 25402.10 (West 2011).

6 Id.
examines AB 1103 itself, and the requirements it sets forth. Part III examines similar legislation from around the world and within the United States. Part IV discusses the emerging trends in energy disclosure law, and compares AB 1103 with aspects of policies that have proven effective. Part V discusses the reaction of the real estate industry to AB 1103, along with its possible market impact. Part VI concludes this article.

II. CALIFORNIA’S AB 1103

In California, commercial buildings account for a staggering thirty-six percent of electricity used in the state. Not surprisingly, California has led the charge in improving energy efficiency of commercial buildings throughout the United States. In an executive order, Governor Arnold Schwarzenegger called for reductions in energy use in government buildings, pursued government leases of Energy Star rated buildings, and directed the California Energy Commission to propose an energy-benchmarking scheme for government and private commercial buildings by July 2005. In 2006, Governor Schwarzenegger signed the California Global Warming Solutions Act into law. The Act calls for reducing greenhouse emissions in California to 1990 levels by 2020, a reduction of over twenty-five percent. It sought to achieve this end by authorizing the California Air Resource Board to adopt rules and regulations, as well as monitoring and enforcing compliance. It is with these goals in mind that the California legislature passed AB 1103 in 2007, a bill that mandates the reporting of a commercial building’s energy usage to the EPA’s Energy Star Program. Based on its energy usage, each building is issued a rating from one to one hundred from the EPA. If a building receives a score of seventy-five or above, the owner may apply for an Energy Star label. This bill further directs electric and gas utilities to maintain records of energy consumption for all nonresidential buildings as of January 1, 2009, for at least the most recent twelve months. This data must be created in a format that is compatible for uploading to the EPA’s Energy Star Portfolio

8 Id.
9 Codified as CAL. HEALTH & SAFETY § 38561 (West 2006).
10 Id.
11 Id.
12 2007 Cal. Legis. Serv. 533 (West). The Energy Star Program compares a building’s energy efficiency when compared to similar buildings in the same industry or sector. Chuck Colgan, Getting Ready for AB 1103, CALIFORNIA CENTER FOR SUSTAINABLE ENERGY (May 11, 2010, 1:37 PM), https://energycenter.org/index.php/news-a-media/latest-news/2137-getting-ready-for-ab-1103. The result is a rating from one to one hundred, with a rating of fifty signifying that a building is performing at an average efficiency when compared to its peers. Id.
14 Id.
15 CAL. PUB. RES. CODE § 25402.10(a) (West 2011) (“On and after January 1, 2009, electric and gas utilities shall maintain records of the energy consumption data of all nonresidential buildings to which they provide service. This data shall be maintained, in a format compatible for uploading to the United States Environmental Protection Agency’s Energy Star Portfolio Manager, for at least the most recent 12 months.”).
Upon authorization from the building owner, the utility company is to upload this information to the Energy Star Portfolio Manager in such a way as to preserve the confidentiality of the utility’s customers. The exact method of collecting and reporting this information is not mandated, but utility companies are encouraged to work with the EPA to maximize efficiency and minimize the cost of implementation. The code mandates the disclosure of the most recent twelve-month period of data to any prospective buyer, lessee, or lender of the commercial building. Beyond this, the current owner or operator of the building would not need to disclose anything further about the energy efficiency or rating of the building. The aim of this legislation is to allow building owners and operators to compare their building’s performance with similar buildings, better manage their energy costs, and help justify financial investments in energy efficiency.
Assembly Bill 531 (AB 531), passed in 2009, amended California Public Resource Code section 25402.10 such that the implementation schedule of the code is to be set forth by the State Energy Resources Conservation and Development Commission, as well as made it explicit that the reporting of energy usage and ratings only applies when a whole building is to be rented, sold, or financed. AB 531 also called for the California Energy Commission to create a timetable for the implementation of AB 1103.

AB 1103 has a phase-in period of three years. As of January 1, 2012, owner-occupied commercial buildings greater than 50,000 square feet are required to comply with AB 1103’s disclosure mandates. Starting January 1, 2013, commercial buildings between 10,000 and 50,000 square feet are required to comply. Finally, as of January 1, 2014, all non-residential commercial buildings between 5,000 and 10,000 square feet are required to comply with the disclosure requirements. Buildings that are ineligible for an Energy Star rating, usually due to a use or class of buildings unsupported by the EPA’s Portfolio Manager, must disclose the energy use intensity level of their buildings.

This EPA’s Portfolio Manager is a free, web-based utility that building owners may use to report energy usage. The Portfolio Manager uses two sources of information. The first is the energy usage data that is provided directly from the utility. The second source is a list of variables that the building owner must provide, as there is no automated system to collect such data. For example, this data for an office building includes, inter alia, gross square footage of floor area, weekly operating hours, number of workers during main shift, number of

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22 Id.
25 AB 1303 Commercial Building Energy Use Disclosure Program, CALIFORNIA ENERGY COMMISSION, http://www.energy.ca.gov/ab1103/ (last visited Apr. 6, 2012). “The revised draft regulations required the initial compliance to begin on July 1, 2012. However, new proposed regulations will postpone the initial compliance date until January 1, 2013. Initial compliance will not be required on July 1, 2012.” Id.; see also, Nonresidential Building Energy Use Disclosure Program, CALIFORNIA ENERGY COMMISSION (Aug., 2011), http://www.energy.ca.gov/2010publications/CEC-400-2010-004/CEC-400-2010-004-SD2.pdf (for the current proposed draft regulations with the most recent implementation timetable).
26 See Jewell, supra note 24, at 3.
27 Id.
28 Id. However, this timetable has been altered by the California Energy Commission, which has yet to finalize compliance deadlines. See AB 1303 Commercial Building Energy Use Disclosure Program, supra note 25.
29 See Jewell, supra note 24, at 3. This energy use intensity is expressed in kBtu/sf-yr. Id.
30 Id. at 6.
32 Id.
33 Id.
computers, and percentage of the floor area that is air conditioned.\textsuperscript{34}

Each building will receive a rating of one to one hundred based on its energy usage, and its comparative efficiency to similar buildings.\textsuperscript{35} If a building achieves a score of seventy-five points or higher, it can apply for an Energy Star plaque and can advertise to consumers that it is Energy Star certified.\textsuperscript{36} However, buildings applying for an Energy Star label must have its energy usage data certified by a licensed professional engineer.\textsuperscript{37}

AB 1103’s adoption of the Energy Star system for its ratings represents a marked departure from more common and well-established systems.\textsuperscript{38} In the past, California’s sustainable building arena has been dominated by the United States Green Building Council’s Leadership in Energy and Environmental Design (LEED) system.\textsuperscript{39} However, there have been recent efforts to make the two systems compatible, and thus encourage building owners to strive for certification in both programs.\textsuperscript{40} Now, due to recent changes to the guidelines of the Existing Buildings Operations and Maintenance (EBOM) ratings in 2009, the Energy Star ratings system and the LEED system are much more compatible.\textsuperscript{41} The new guidelines account for thirty-five out of 110 energy related items on the new LEED system, and provides for up to eighteen points based on the Energy Star rating a building receives.\textsuperscript{42} It is hoped that the integration and interconnection between these two systems will encourage building owners to strive to obtain certification in both systems.\textsuperscript{43} One main advantage of the two systems working in tandem is that once a building is given an Energy Star rating, a professional engineer can conduct an audit.\textsuperscript{44} A licensed professional engineer then can help to create a list of easy energy improvements that the building owner can undertake to improve their rating.\textsuperscript{45}

III. MANDATORY ENERGY RATING AND DISCLOSURE—AN INTERNATIONAL TREND

While mandatory energy rating disclosure legislation is in its infancy in the United States, countries around the world have recognized the advantages of such an approach to energy conservation. Australia began a residential energy rating disclosure policy as early as 1995, and has recently expanded this policy to
incorporate commercial buildings.\textsuperscript{46} Denmark led Europe in such disclosure legislation, and became an important model for the European Union’s Energy Performance of Buildings Directive (EPBD).\textsuperscript{47} Some of the lessons learned from the more mature policies in these countries may act as a guide to future legislation in the United States, and can give useful insight into the potential impacts of California’s AB 1103.

\textit{A. International Response}

\textit{1. Australia}

Australia unveiled its energy rating legislation in 1995, when it introduced a minimum energy performance standard for new homes.\textsuperscript{48} New homes are required to score at least four stars out of a six star rating system that is based on energy modeling.\textsuperscript{49} In 1999, Australia expanded this requirement, mandating all existing homes to be rated at time of sale.\textsuperscript{50} Those homes that had obtained a rating via a sale or construction are required to have this rating disclosed to prospective renters as well.\textsuperscript{51} Enforcement of this policy constitutes a windfall to the buyer if the seller does not comply with the law.\textsuperscript{52} If the seller fails to disclose the energy rating at the time of sale, the buyer is entitled to financial compensation equal to 0.5\% of the sale price.\textsuperscript{53} However, an evaluation of the program in 2002 found some significant compliance and control issues.\textsuperscript{54} Only thirty-nine percent of buyers received a rating disclosure at time of sale, fifty-two percent of homeowners did not find the rating useful, and about fifty percent of the ratings were conducted by assessors who had never visited the property.\textsuperscript{55} About twenty-five percent of the sellers did not disclose the property’s rating in advertising, and there was anecdotal evidence of sellers using false information to inflate ratings.\textsuperscript{56} In 2008, the Australian government conducted a study to assess the impact of this energy disclosure policy.\textsuperscript{57} The study analyzed all home sales in 2005 and 2006 (approximately 5,000) and found a premium of about three percent for each additional star a home acquired.\textsuperscript{58} The study illustrated that energy improvements


\textsuperscript{47} Id.
\textsuperscript{48} Id.
\textsuperscript{49} Id.
\textsuperscript{50} Id. In addition, this mandatory disclosure policy is augmented by a voluntary incentive program called ACT Energy Wise that subsidizes energy retrofits and audits. Id.
\textsuperscript{51} Id.
\textsuperscript{52} Id.
\textsuperscript{53} Id. at 61.
\textsuperscript{54} Id.
\textsuperscript{55} Id.
\textsuperscript{56} Id. at 60.
\textsuperscript{57} Id.
\textsuperscript{58} Id. at 90. This premium represents about $110,000 Australia dollars, or roughly $9,000 U.S.
can be very cost effective, with returns of up to 900% on retrofit costs upon sale.59 However, the study did not attempt to discover if this theoretical return was actually impacting homeowner’s decisions and prompting the use of energy upgrades.60

Recently, Australia has expanded their energy disclosure legislation to regulate commercial buildings as well.61 Effective July 1, 2010, Australia’s Building Energy Efficiency Disclosure Act requires commercial building owners to obtain a Building Energy Efficiency Certificate (BEEC) and disclose this certificate to potential buyers or lessees.62 The BEEC consists of an energy efficiency rating that is based on the National Australian Built Environment Rating System, an assessment of the efficiency of the building’s lighting, and an assessment report that gives guidance as to how to improve the building’s energy efficiency.63

2. Denmark

Denmark was one of the first countries to adopt mandatory energy rating disclosure legislation.64 Beginning January 1, 1997, all new and existing residential and commercial buildings were required to obtain an energy label that discloses the building’s energy and water consumption as well as its carbon dioxide emissions.65 The Danish model was instrumental in shaping the later European Union’s EPBD in 2003.66 In 2006, Denmark refined its law by incorporating successful elements of the EPBD.67 The Danish policy distinguishes the various disclosure requirements for buildings based on their size.68 Small buildings less than 16,000 square feet (primarily apartments, residential units, and small commercial buildings) are required to obtain an energy label at the time of sale, with the energy usage of the building calculated using energy modeling, standardized occupancy, and weather assumptions.69 Large buildings over 16,000
square feet must obtain an operational energy label every year. The goal of the policy is to educate owners on their energy consumption, meaningfully compare similar buildings, and allow implementation of cost effective upgrades.

Enforcement of the policy includes random building audits (one out of 500 buildings), as well as the review of labeling forms (one out of 100 forms). The Danish Energy Authority conducted a survey between June 2000 and February 2001 to evaluate the effectiveness of the policy. For large buildings, the survey found low compliance at only forty-two percent of buildings being registered. Furthermore, only fifty percent of the unregistered buildings’ owners knew of the program’s existence. For small buildings, seventy percent of single-family dwellings were labeled at the time of sale. Twenty percent of single-family houses were labeled within 6.5 years. Only fifty to sixty percent of small buildings were registered under the scheme, with a wide variation between geographic areas. Once again, less than half of the interviewed owners knew of the labeling scheme.

3. Europe

Pursuant to the Kyoto Protocol, the European Union agreed to reduce carbon dioxide emissions by eight percent below 1990 levels between 2008 and 2012. To further this end, the European Climate Change Programme was launched in 2000 to identify a list of priority actions and measures that would help achieve this goal. As the building sector accounted for close to forty percent of the European Union’s total energy consumption, a focus was given to the energy performance of buildings. The EPBD was adopted on December 16, 2002, and became effective January 4, 2003. Member states were required to incorporate the EPBD’s

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70 Id.
71 Id.
72 Id.
73 Id.
74 Id.
75 Id.
76 Id.
77 Id. at 61.
78 Id.
79 Id. at 63.
82 Id.
requirements into their respective nation’s laws by January 4, 2009. The EPBD encompasses both new and existing residential and commercial buildings. Under the EPBD, member states are required to develop a method of calculating the energy performance of buildings. They must also set forth minimum energy performance standards for new and existing buildings. In addition, the building owner must furnish an Energy Performance Certificate (EPC) to any prospective buyer or lessee at the time of sale, construction, or rental. Additionally, boilers and air conditioning units are to be inspected at regular intervals. All of the inspections, certifications, and recommendations for energy improvements to buildings must be conducted by independent and qualified experts.

**B. Mandatory Energy Rating and Disclosure in the United States**

While California has led the charge in mandated energy disclosure for commercial buildings, other jurisdictions have followed suit. Washington State, along with New York City, Austin, Seattle, and Washington, D.C., have passed legislation requiring performance ratings and public disclosure for privately owned commercial buildings.

Thus far, all of these policies utilize the EPA’s Energy Star software to generate ratings. At the federal level, provisions requiring federal agencies to develop a building energy label were included in two bills introduced in 2009:

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84 Id.
85 Id.; Dunsky, supra note 46, at 63. “The Directive covers both residential and non-residential buildings, for both new and existing constructions, but allows for certain exemptions such as buildings with historical or architectural merit, religious buildings, buildings with limited time of use, and buildings with a useful floor area of less than 50 [meters squared].” Id.
86 Dunsky, supra note 46, at 63. “[A]ccording to a general framework that includes specific considerations such as the thermal characteristics of a building, HVAC installations, built-in lighting, passive solar, natural ventilation, local climatic conditions, etc.” Id.
87 Id. at 64 (“For existing buildings over 1000 m² undergoing major renovations, energy performance must be upgraded as far as is technically, functionally and economically feasible. For new buildings over 1000 m², in addition to applying MEPS [Minimum Energy Performance Standards], the feasibility of alternative energy sources must be taken into consideration. Member States must review their MEPS at regular intervals (max. 5 years) in order to reflect technological progress in the building sector.”).
88 Id. (“The EPC must include recommendations for a list of cost-effective improvements of the building’s energy performance and should include reference values such as benchmarks to allow consumers and assess the energy performance of the building in comparison with other similar properties. Furthermore, buildings over 1000 m² occupied by public authorities and visited by the public must display an energy certificate in a clearly visible location.”).
89 Id.
90 Id.
92 Id.
93 Id. However, while this is the only rating system currently employed by such policies, alternative rating systems remain available to future policymakers. Id. Emerging rating systems include the American Society of Heating, Refrigerating and Air-Conditioning Engineers, and the STM International and Portland Energy Conservation, Inc.. Id.
H.R. 2454, better known as the American Clean Energy and Security Act, and S. 1462, the American Clean Energy Leadership Act.\textsuperscript{94} The latter launched the National Building Rating Program in late 2009, a joint effort with the EPA to develop a standard building energy label and rating methodology for homes and commercial buildings.\textsuperscript{95}

1. Washington, D.C.

On July 15, 2008, Washington, D.C. passed the Clean and Affordable Energy Act, which was signed into law by Mayor Adrian Fenty on August 4, 2008.\textsuperscript{96} The law mandates that nonresidential buildings are to be rated annually beginning in 2010, regardless of transaction activity, and ratings will be posted on a public web site administered by the District of Columbia.\textsuperscript{97} The regulation affects buildings with at least 50,000 square feet and has a phase-in period over four years.\textsuperscript{98} Buildings owned or operated by the District of Columbia that are greater than 10,000 square feet in size are required to begin rating in late 2009.\textsuperscript{99} New construction over 50,000 square feet must estimate energy usage and publicly disclose energy performance by 2012.\textsuperscript{100} This is the first mandatory energy rating disclosure law that was not tied to ‘triggering’ events such as a sale or lease, opting for an annual requirement instead.\textsuperscript{101} Washington, D.C. is also the first jurisdiction to require posting ratings to a public website, and is currently the only jurisdiction that requires such ratings for new commercial construction.\textsuperscript{102}

2. Austin, TX

Austin enacted the Energy Conservation Audit and Disclosure Ordinance in November 2008.\textsuperscript{103} This ordinance requires disclosure of energy ratings for commercial buildings by mid-2011.\textsuperscript{104} These disclosures are required to be made to all parties to the sale of the building.\textsuperscript{105} However, new construction is exempted from such disclosures until it reaches ten years of age.\textsuperscript{106} Smaller buildings are

\begin{footnotesize}
\textsuperscript{95} See Dunsky, supra note 46, at 102.
\textsuperscript{96} 2008 D.C. Legis. Serv. 17-250 (West).
\textsuperscript{98} 2008 D.C. Legis. Serv. 17-250 (West).
\textsuperscript{99} Id.
\textsuperscript{100} Id.
\textsuperscript{101} See Empowering the Market, supra note 91, at 8-47.
\textsuperscript{102} Id.
\textsuperscript{103} Austin, Tex., Ordinance 20081106-047 (2008).
\textsuperscript{104} See id.; Empowering the Market, supra note 91, at 8-47.
\textsuperscript{105} See Austin, Tex., Ordinance 20081106-047 (2008).
\textsuperscript{106} See id.
\end{footnotesize}
required to create ratings via software provided by Austin Energy, a utility administered by the city.\textsuperscript{107} The city also requires similar audits of single and multi-family homes.\textsuperscript{108}

The ordinance additionally requires energy rating disclosure of single-family homes at the time of sale.\textsuperscript{109} All multi-family dwellings must complete an energy audit by mid-2011, the results of which must be disclosed to potential buyers or tenants as well as displayed inside the building itself.\textsuperscript{110} Those that consume 150\% more energy than the average multi-family building are to be deemed “high energy-use” buildings.\textsuperscript{111} Such buildings must implement energy efficient retrofits to bring the building within 110\% of the average multi-family building’s energy usage within eighteen months.\textsuperscript{112} The enforcement mechanism for the ordinance includes a fine of $500 for noncompliance, and a fine of up to $2,000 if the owner acts with criminal negligence.\textsuperscript{113}

3. Washington State

Washington followed California’s lead in mid-2009, enacting its own energy disclosure legislation, Senate Bill 5854.\textsuperscript{114} The disclosure requirements of the legislation are nearly identical to that of California.\textsuperscript{115} It requires measuring of ratings by commercial building owners with the assistance of utilities, and the disclosure of such ratings at the time of sale, financing, or leasing of the building.\textsuperscript{116} The law impacts buildings of 10,000 square feet or greater, and fully phases in commercial buildings of all sizes over a two-year period.\textsuperscript{117} Washington has also taken proactive steps towards energy efficiency of government buildings. Public buildings with a poor Energy Star rating (defined as a score of fifty or less) must undergo a preliminary audit.\textsuperscript{118} If such an audit identifies retrofits that would be cost effective, an investment-grade audit is required to be executed by mid-

\textsuperscript{107} Id.
\textsuperscript{108} Id.
\textsuperscript{109} Id.
\textsuperscript{110} Id.
\textsuperscript{111} Id.
\textsuperscript{112} Id.
\textsuperscript{113} Austin, Tex., Ordinance 20081106-047 § 6-4-42 (2008).
\textsuperscript{114} 2009 Wash. Sess. Laws 2162. The Washington legislature cited several concerns that the bill is aimed at addressing, including combating the thirty percent of greenhouse emissions that buildings account for in the state. Id.
\textsuperscript{115} 2009 Wash. Sess. Laws 2162. Similar to California, this bill requires utilities to maintain records of energy consumption by nonresidential properties starting January 1, 2010. Id. Such data must be kept for at least the most recent twelve months and must be in a format that is compatible for uploading to the EPA’s Energy Star Portfolio Manager. Id. Upon written authorization from the building owner, the utility then shall upload such data to Portfolio Manager in such a way as to not disclose any personally identifying information. Id.
\textsuperscript{116} 2009 Wash. Sess. Laws 2163.
\textsuperscript{117} Id. The bill sets a timeline in which nonresidential buildings greater than 50,000 square feet are required to disclose by January 1, 2011, and buildings greater than 10,000 square feet by January 1, 2012. Id.
\textsuperscript{118} Id. at 2163–64.
2013, and the retrofits implemented by 2016.\(^{119}\) In addition, Washington has set minimum energy efficiency requirements for private buildings that are leased for government use.\(^{120}\) Beginning in 2010, state agencies may not sign or renew a lease in a building that has received an Energy Star rating of less than seventy-five.\(^{121}\) However, there exists an exception whereby a privately owned building may be leased by a state agency if the owner agrees to implement an energy audit and cost-effective upgrades within the first few years of the lease.\(^{122}\)

4. Seattle, Washington

Seattle enacted Ordinance No. 123226 in 2010, which broadened the requirements of the above state law.\(^{123}\) Beginning in 2011, the Seattle policy required annual energy ratings of commercial buildings regardless of transactional activity.\(^{124}\) Within seven days of a request, building owners are required to disclose their energy rating to any current tenant, prospective tenant, potential buyers, or potential lenders.\(^{125}\) The policy also mandates disclosure of such usage to the government starting in 2012, and extends the state rating requirements to multi-family dwellings.\(^{126}\)

5. New York City, New York

New York City is also one of the few U.S. cities that have enacted energy disclosure legislation. In 2009, New York City passed four such bills, collectively known as the Greener, Greater Building Plan.\(^{127}\) This comprehensive plan incorporates periodic energy audits, lighting retrofits, water benchmarking, energy retrofits, as well as energy rating and disclosure for existing commercial

\(^{119}\) Id.

\(^{120}\) 2009 Wash. Sess. Laws 2163.

\(^{121}\) Id.

\(^{122}\) Id.

\(^{123}\) Seattle, Wash., Ordinance 123226 (2010). One of the stated goals of the bill is to work towards the city’s goal of a twenty percent improvement in energy performance of existing buildings by 2020 when compared to 2005 levels. Id.

\(^{124}\) Seattle, Wash., Ordinance 123226 § 22.920.060 (2010). Seattle’s disclosure requirements are modeled after those enacted in California. Id. Starting January 1, 2010, utility companies must keep track of nonresidential or multi-family buildings’ energy usage for the most recent twelve months in a format that is compatible with the EPA’s Energy Star Portfolio Manager. Id. Within sixty days of authorization from the owner, the utility companies are required to upload this usage information to Portfolio Manager in such a way as to preserve the confidentiality of the customer. Id.

\(^{125}\) Seattle, Wash., Ordinance 123226 § 22.920.080 (2010). Failure to provide an energy report to one of these parties who request it may result in a building owner being investigated by the Director. Seattle, Wash., Ordinance 123226 § 22.920.120 9(A), (B) (2010). Upon a finding of noncompliance, the director has authority to issue a citation for $150 for the first violation and $500 for any subsequent violation. Id. If an energy report is still not filed within fifteen days of the issuance of the citation, the owner may be fined $150 per day for the first ten days and $500 per day afterwards, until the owner complies. Id.

\(^{126}\) Seattle, Wash., Ordinance 123226 § 22.920.060 (2010).

\(^{127}\) N.Y.C., N.Y., ADMIN. CODE ch. 3, tit. 28. The Greener Greater Building Plan is comprised of New York Local Law 84, Local Law 85, Local Law 87, and Local Law 88. Id.
building.\textsuperscript{128} For energy rating and disclosure, the plan mandates annual rating and disclosure on a public website provided by the city for any large commercial or multi-family dwelling starting in 2011.\textsuperscript{129} In addition, any building wholly leased by the city must comply with this rating and disclosure scheme, with low rated buildings requiring an energy audit and cost-effective improvements.\textsuperscript{130}

IV. ANALYSIS

A. Comparison of Existing Energy Disclosure Legislation

While United States energy disclosure legislation is in its infancy, certain trends and schemes have emerged. These include strategies such as establishing minimum energy requirements for government-leased buildings, disclosure of ratings to current tenants and potential financiers, energy disclosure to the government, disclosure on public websites, reporting on regular intervals, and requiring efficiency improvements to buildings based on their energy ratings.

1. Emerging Trends in Energy Rating and Disclosure Legislation

One such emerging trend is the adoption of regularly scheduled intervals for energy performance ratings instead of basing them on triggering events such as a lease, sale, construction, or financing of a building.\textsuperscript{131} Washington, D.C., New York City, and Seattle have all implemented such an approach.\textsuperscript{132} In Europe, countries such as Denmark have begun adopting this scheme outside of the EPBD, signaling that the method may be gaining international recognition.\textsuperscript{133} Some of the benefits of this method over transactional triggers are that it captures more of the real estate market for rating and that it makes energy ratings more comparable. Ratings triggered by events such as transactions and construction only impact existing buildings immediately preceding these events.\textsuperscript{134} As many buildings may go a long time without such a triggering event, data is sparse, and effectively exempts these buildings for a period of time.\textsuperscript{135} Scheduled ratings increase the effectiveness of disclosure.\textsuperscript{136} By creating a set time for buildings to be rated, it allows for more effective comparisons of energy usage under similar conditions.\textsuperscript{137} Having all relevant data collected from around the same time, as opposed to staggered data, may also facilitate prompt and effective policy responses to the

\textsuperscript{128} Id.
\textsuperscript{129} Id.
\textsuperscript{130} Id. Similar to Washington’s legislation, buildings owned or fully leased by the government that receive low ratings are required to undergo an energy audit and make cost-effective improvements. Id.
\textsuperscript{131} Burr, supra note 1.
\textsuperscript{132} Id.
\textsuperscript{133} Id.
\textsuperscript{134} Id.
\textsuperscript{135} Id.
\textsuperscript{136} Id. at 8.
\textsuperscript{137} Id.
Another such trend is to require disclosure of energy ratings to current tenants as well as potential financiers. California and Washington both require disclosure to a prospective lender. This scheme is aimed to inform lenders of the efficiency of buildings before loans are executed, hopefully allowing for more favorable rates and terms for energy efficient buildings. This would incentivize owners to improve their ratings to gain a financial advantage. Currently, Seattle requires disclosure of energy ratings to existing tenants as well. The rationale is that allowing a current tenant to see the energy rating of the building may motivate him to improve his operational use of energy, or to encourage or pressure the landlord to make energy efficiency improvements to the building.

While most benchmarking legislation is simply aimed at measuring the energy efficiency of a building, a growing number of jurisdictions are requiring the owners of buildings with low ratings to install energy upgrades. Washington and New York City, as well as foreign countries such as Denmark, all require some form of mandatory energy upgrades for buildings that obtain low energy ratings. Another way policy makers have sought to encourage voluntary energy upgrades is to establish minimum energy standards for buildings leased by government entities. Pursuant to the Energy Independence and Security Act of 2007, United States federal agencies are required to only sign leases in buildings that acquire an Energy Star rating of seventy-five or greater. Washington followed suit, and currently requires that a building obtain an Energy Star rating of seventy-five or higher for it to be eligible to be leased by state government entities.

Still, other jurisdictions require that energy ratings be disclosed to government agencies. New York City, Washington D.C., and Seattle require energy ratings as well as disclosure of these ratings to the government, while Austin requires disclosure to a municipal utility company administered by the city. Such disclosure is aimed at allowing local governments to 1) track energy efficiency progress; 2) better establish standards and programs on energy efficiency; 3) establish a baseline for energy efficiency for local buildings; 4) create an overall performance goal of all measured buildings; and 5) create future building policies based on reported data. By disclosing this information to government entities, public agencies will be better able to track energy efficiency.

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138 Id.
140 Id.
141 Id. at 10.
142 Id.
143 Id.
144 Id.
145 Id.
148 Burr, supra note 1.
149 Id.
trends and develop future policies in response.  

Yet another approach taken by some United States jurisdictions has been mandating that the energy usage of a building be disclosed on a public website. New York City and Washington, D.C. both administer public websites and require building owners to post their energy usage.  

While there is currently little data on the subject, it is hoped that disclosure of a building’s energy usage on a public website will be more effective than physically posting the rating on the building. It can make the information more widely available to the public and may further stigmatize inefficient buildings and enhance the motivation to implement energy upgrades.  

2. Energy Disclosure Legislation as a Market Force

One of the core goals of Assembly Bill 1103 and similar legislation is to create an informed marketplace in which energy-conscious tenants, prospective buyers, and financiers will demand more energy-efficient buildings. With such ratings readily available, energy cost savings would be factored into leasing and buying commercial property, creating market pressure for building owners to implement energy retrofits, and to make their buildings more energy efficient.  

As many of the policies in the United States are in their infancy or are not yet in effect, market data that would indicate that energy rating and disclosure legislation is effective is sparse. However, market data from voluntary programs such as the EPA’s Energy Star Program demonstrates that labeling can create a positive impact on the marketability of conforming products. Given this, it is conceivable that a similar effect could be seen in the commercial real estate market. Some studies have shown that Energy Star rated buildings boast higher occupancy rates, rental rates, and sale prices than comparable, non Energy Star-rated buildings. While this data is based on voluntary compliance, the fact that all current legislation within the United States uses the EPA’s Energy Star...
Program makes such data probative to the future effectiveness of such policies.

As Assembly Bill 1103 was largely modeled after the European Union’s EPBD, the success and effectiveness of this directive in Europe may shed light on the impact Assembly Bill 1103 will have in California. Article seven of EPBD requires member countries to establish policies to measure energy usage and establish energy certification schemes for buildings. The EPBD requires that at the time of construction, lease, or sale of the building, the owner must make an energy certification available. It further requires that a commercial building that is leased by a public entity that provides public services must publicly display its energy certification on the premises. These certificates are to have energy information on the building and energy efficiency improvement recommendations. Pending revisions to the EPBD would require disclosure of these certificates on advertising for sale or lease of the building, as well as lower the building size threshold for publicly displaying the certificate on the premises.

B. Blueprint for Effective Energy Disclosure Legislation

While there is no agreed-upon model or framework for energy rating disclosure legislation, there are a few elements that have been shown to make policies effective.

First, the rating system employed by the legislation must be a trusted rating system. The public must believe that the rating accurately reflects the actual efficiency of the building. While no system is perfect, public perception must not view the rating system as inaccurate or easily gamed or sidestepped. In addition, the burden of aggregating energy usage from individual meters on buildings and uploading it to the desired rating system should be allocated to utilities. This would be helpful to multi-tenant building owners, and may improve reporting accuracy, and encourage compliance. Furthermore, such a rating system needs to be trusted by owners and tenants alike. This entails assuring the confidentiality of those who provide energy-related information to the entity that implements the rating system. To best protect the privacy of the owners...
and tenants, Northeast Energy Efficiency Partnership (NEEP) suggests using a secure, web-based central registry administered by a state agency to compile the relevant information.\footnote{Id. at 10–11.} A web-based registry allows for easy uploading of such information, and access to this information can be restricted to only those who provide essential energy performance tasks such as auditors and local energy code enforcement officials.\footnote{Id. at 11.} This secure database may hold all of the information needed to compile and give a final rating to the building, while a publicly accessible database or website would be restricted to providing only the final rating of the building.\footnote{See id.}

Second, there must be a clear and accessible message sent to the consumer.\footnote{Empowering the Market, supra note 91, at 8-42.} Energy ratings and information disclosure should be easily accessible and understandable to the consumer.\footnote{Id. at 2–3.} Without such accessibility and transparency, the consumer no longer can play a role in the market forces that would drive compliance and voluntary energy upgrades.\footnote{See id. at 3.} One way to improve accessibility is to mandate posting of ratings to a publicly accessible website.\footnote{Id. at 10.}

Third, there must be strong enforcement of the legislation’s provisions.\footnote{Id. at 14.} Without strong incentives for compliance and penalties for noncompliance, a mandatory energy disclosure policy will prove ineffective.\footnote{Building Energy Efficiency Disclosure Act 2010 (Cth) s 23 (Austl.); see Empowering the Market, supra note 91, at 8-68.} The success of such policies depends on the ratings being ubiquitous, thus requiring a high level of participation from building owners.\footnote{See Empowering the Market, supra note 91, at 8-50.} Both the Australian and Danish disclosure laws illustrate the pitfalls of simply enacting educational campaigns and enforcing light penalties on those that do not comply.\footnote{Id.} Effective enforcement mechanisms may include random audits of both the accuracy and compliance with energy ratings, third party verification, and fines for violations.\footnote{Id.}

Fourth, such legislation should require timely and early disclosure.\footnote{Id. at 10.} The consumer must have the energy ratings early in the transaction to influence his or her decision making.\footnote{Id.} For buying or leasing a property, this means disclosure of the building’s rating during stages that precede the final decision of the consumer,
for example during marketing and advertising of the property.\textsuperscript{185} This allows for an informed consumer base that may compare shop buildings based on such ratings, thus rewarding those with higher ratings and creating a price premium for such buildings.\textsuperscript{186} In addition, early disclosure of ratings may create a performance feedback loop between engineers, designers, architects, builders, and operators.\textsuperscript{187}

Fifth, such legislation should link ratings with active ways to improve energy efficiency.\textsuperscript{188} While ratings and disclosure of an energy score is important, linking this information to specific ways owners may improve the efficiency of the building is essential.\textsuperscript{189} Without specific recommendations tailored to the ratings of their building, owners may be hesitant to embark on what may be perceived as costly and dubiously-effective energy upgrades.\textsuperscript{190} In addition, the government should only lease buildings that meet certain minimum efficiency requirements.\textsuperscript{191} In this way, the government may use its purchasing power as leverage to further incentivize owners to improve their energy rating via efficiency upgrades and retrofits.\textsuperscript{192} In addition, the government may impose further requirements on buildings it leases, such as conducting an energy audit and mandatory upgrades, if the efficiency of the building falls below a certain level.\textsuperscript{193} This influence of the government may also spur private companies to follow suit, greatly increasing the pressure on private owners to improve their energy ratings.\textsuperscript{194} Furthermore, any policy should be phased in over a period of years, based on building size.\textsuperscript{195} This allows the market to adjust to the ratings, allows owners to make improvements to their buildings before being rated, and may reduce noncompliance issues.\textsuperscript{196}

Finally, energy ratings should be reported to local governments, so they may use efficiency ratings to craft future policy.\textsuperscript{197} Reported ratings would create baseline data that would allow for future improvements via regulation.\textsuperscript{198} In addition, reporting to local government may result in increased building code compliance and lower overhead for government enforcement of such codes.\textsuperscript{199} Energy-related building codes could be enforced by simply looking at a building’s energy rating, and only investigating those with ratings lower than what would be

\textsuperscript{185} Id.  “Disclosure in advertising material is critical for any transaction-based disclosures. Ratings will be more influential to the potential buyers, lessees and financiers of buildings if disclosed early in the process.” Id.
\textsuperscript{186} Id. at 2.
\textsuperscript{187} See id. at 2, 4.
\textsuperscript{188} Id. at 2, 5.
\textsuperscript{189} Id.
\textsuperscript{190} Id.
\textsuperscript{191} Id. at 11.
\textsuperscript{192} Id.
\textsuperscript{193} Id.
\textsuperscript{194} Id.
\textsuperscript{195} Id.
\textsuperscript{196} Id.
\textsuperscript{197} Id.
\textsuperscript{198} Id. at 2.
\textsuperscript{199} See id. at 2.
expected if the owner was in compliance.200

C. Comparison of AB 1103 to the Blueprint

In accordance to the blueprint outlined above, any mandatory energy rating legislation such as AB 1103 should incorporate a few basic elements to insure its effectiveness.

First, the energy rating system employed by AB 1103 needs to be a trusted rating system.201 AB 1103 utilizes the EPA’s Energy Star and Portfolio Manager systems.202 These systems are prevalent, recognizable, and administered by a federal agency.203 The Energy Star and Portfolio Manager systems are web-based, easily accessible, and the Energy Star logo is recognized by seventy-five percent of Americans.204 With over 140,000 buildings rated and over 10,000 marked with an Energy Star label, this rating system is prevalent and well established.205 In addition, using and reporting energy-related information to Portfolio Manager by owners is relatively simple.206

In addition, the burden for aggregating energy information from individual meters should be placed upon the utilities in order to reduce the burden on owners and to increase compliance.207 AB 1103 mandates that the energy utilities compile energy usage information of the building and upload it to Portfolio Manager upon authorization from the owner.208 However, there is additional information that is required under AB 1103 that cannot be automatically uploaded.209 For example, an office building owner would be required to disclose 1) gross square footage of floor area; 2) weekly operating hours; 3) number of workers during main shift; 4) number of computers; 5) percentage of the floor area that is air conditioned; and 6) percentage of floor area that is heated.210 For the last two criteria, an owner may choose between above fifty percent of the floor space, below fifty percent of the floor space, or no floor space that is heated or air conditioned.211 However, reporting of these statistics for an owner of a large building may potentially be very onerous. Therefore, while AB 1103 may seem to correctly put the burden of disclosure on utility companies, commercial building owners may still be left expending a great deal of time and energy to comply with the law.

200 Id.
201 Id. at 28.
202 CAL. PUB. RES. CODE § 25402.10(d)(1) (West 2011).
203 See Jewell, supra note 24, at 6.
204 Id.
205 Id.
206 Id. Steps for owners include: (1) create a Portfolio Manager account; (2) create a facility, building spaces, and meters; (3) select Automated Benchmarking Services link and pick your utility from the drop down list; (4) fill out authorization process for utility meters and input utility-specific required data; and (5) log back into account to see meter data and benchmarking results. Id.
207 See Empowering the Market, supra note 91, at 8-51.
208 CAL. PUB. RES. CODE § 25402.10(d)(1) (West 2011).
209 Jewell, supra note 24, at 12.
210 Id.
211 Id.
Additionally, to establish a trustworthy system, customer and owner information must remain confidential.\(^{212}\) NEEP suggests a secure, web-based central registry administered by a state agency to tackle this problem.\(^{213}\) AB 1103 uses Portfolio Manager to compile such relevant information.\(^{214}\) This is a secure, password-protected, and web-based database that is administered by the EPA.\(^{215}\) AB 1103 does not mandate publishing the energy rating of commercial buildings on a public website; therefore, there is little danger of sensitive or private information being disclosed to the public.\(^{216}\)

However, tenant privacy rights may still exist that could affect a building owner’s liability. While the energy utility compiles a tenant’s energy usage, it is the building owner’s written authorization that allows for this information to be uploaded to the EPA’s Portfolio Manager.\(^{217}\) In a triple-net lease, wherein a tenant contracts directly with a utility for energy services, this authorization to disclose a tenant’s energy usage may be a future legal pitfall for owners.\(^{218}\) In addition, it requires gathering of certain data from the tenant, such as the number of employees on the main shift and the number of computers.\(^{219}\) AB 1103 does not address this issue, thus owners should determine alternative methods to minimize future liability, such as tailoring leases to allow for this statutory disclosure and by seeking the cooperation of tenants.\(^{220}\)

A mandatory energy rating disclosure law should provide for a clear and accessible message to the consumer, and ideally would post the ratings on a public website.\(^{221}\) AB 1103 does not provide for publishing of energy ratings to a public website, as legislation from New York City and Washington, D.C. require.\(^{222}\) Incorporating this requirement into future legislation would promote transparency, better inform the consumer, and heighten the market pressure for compliance and higher ratings for buildings.

Next, there must be strong enforcement of the legislation’s provisions.\(^{223}\) However, this may be one of the largest pitfalls of AB 1103. Nowhere in the legislation does it provide for penalties, fees, or any other method of

\(^{212}\) Stern, supra note 170, at 2.  
\(^{213}\) Id. at 10.  
\(^{220}\) See Derhake, supra note 218.  
\(^{221}\) Dunsky, supra note 46, at 28.  
\(^{223}\) Burr, supra note 1.
Without proper enforcement, AB 1103 relies solely on market forces and the good will of owners to comply with its requirements. In the absence of enforcement measures, compliance among commercial property owners may drop, and the rating systems may become unfamiliar to consumers and soften its potential impact on the market.

Moreover, such legislation should require timely and early disclosure. Disclosure must occur before or during the early stages of a transaction in order for the consumer to be properly informed of the building’s energy performance and allow comparison shopping based on this factor. While AB 1103 mandates disclosure of the energy rating of a building when the whole building is sold, financed, or leased, it is silent on the timing of such disclosure. Early disclosure in the transactional process would allow for a well-informed consumer that could easily demand higher efficiency buildings. A consumer may also opt to learn of the energy efficiency of a building early in the transaction, as the availability of “green” financing becomes increasingly common. On the other hand, early disclosure may impede commitment to the transaction and may negatively impact the marketability of the building.

The market impact of these energy ratings is uncertain at this time. Additionally, it remains unclear if there is any liability on the owner’s part if such disclosures are not made. While AB 1103 sets out disclosure as an affirmative obligation of the owner and/or his agent, it also states that it does not otherwise increase or decrease the legal responsibilities of the owner.

Additionally, energy rating disclosure legislation should link ratings with active ways to improve energy efficiency. However, the Energy Star rating system does not itself produce suggested energy upgrades or retrofits to commercial property owners based on their rating. Despite these issues, owners have some alternatives. Moreover, they may hire an energy engineer to do an energy audit of their property to identify possible areas of improvement; however, this would come at the owner’s expense and initiative. Alternatively, an owner may implement the existing LEED rating system in tandem with the Energy Star system.

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224 CAL. PUB. RES. CODE § 25402.10 (West 2011).
225 See 2007 Cal. Legis. Serv. 533 § 1(b) (West).
226 Burr, supra note 1.
227 Id.
228 See Hoch, supra note 31, at 1.
229 Id.
230 Id.
231 Id.
232 Id.
233 Id.
234 Id.
235 CAL. PUB. RES. CODE § 25402.10(e) (West 2011).
236 Burr, supra note 1.
238 See Kroeker, supra note 36.
Star rating.239 The new EBOM rating system for LEED incorporates Energy Star data, and also produces a list of suggested and cost-effective energy upgrades.240 However, this ability to suggest methods of energy efficiency improvement should be incorporated into the Energy Star system to allow for owners complying with AB 1103 to easily identify ways to improve their score. Furthermore, AB 1103 makes no provision for the government to only lease buildings with a minimum energy rating, nor does it mandate audits or upgrades for government leased buildings, so it will not leverage government power to realize its objectives.241 In this sense, the California legislature may have missed an opportunity to create a greater demand for more efficient buildings, thereby accelerating market pressure on owners to increase their building’s efficiency.

Furthermore, mandated energy rating disclosure should be phased in over a number of years to allow the market to adjust to ratings, to allow owners to make improvements to their buildings, and to reduce compliance issues.242 AB 531 did just that, allowing the California Energy Commission to set a timetable for implementation of AB 1103.243 Starting July 1, 2012, and ending July 1, 2013, buildings will be required to disclose energy ratings, starting with the largest buildings first.244 As of July 1, 2012,245 commercial buildings greater than 50,000 square feet are required to comply with AB 1103’s disclosure mandates.246 Starting January 1, 2013, commercial buildings between 5,000 and 10,000 square feet are required to comply.247 As of July 1, 2013, all commercial buildings between 5,000 and 10,000 square feet are required to comply with the disclosure requirements.248

Finally, an effective energy rating program should report the results to local government.249 This allows governments to tailor future energy policies in reaction to emerging trends in reported energy ratings.250 It would also allow for easy enforcement of energy related building codes.251 However, AB 1103 makes no express provision for the reporting of the energy ratings of commercial buildings to local or state governments.252 Future legislation could simply make the ratings data from Portfolio Manager accessible to the government, allowing them to quickly access the information and spot energy usage trends. In addition,

239 Id.
240 Id.
241 CAL. PUB. RES. CODE § 25402.10 (West 2011).
242 See Empowering the Market, supra note 91, at 8-50.
243 See 2009 Cal. Legis. Serv. 323 § 1 (West).
244 Id.
245 THE CAL. ENERGY COMM’N, http://www.energy.ca.gov/ab1103/ (last visited Apr. 6, 2012). “The revised draft regulations required the initial compliance to begin on July 1, 2012. However, new proposed regulations will postpone the initial compliance date until January 1, 2013.” Id.
246 See id at 3.
247 See id.
248 See id.
249 See id, supra note 1, at 5.
250 See id.
251 See id.
252 CAL. PUB. RES. CODE § 25402.10 (West 2011).
should reporting of ratings to a publicly accessible website be mandated in the future, the government would not need any express authorization to access this public information in order to inform its policy making decisions.

AB 1103 addresses many of the hallmark elements that an effective mandatory energy rating bill should encompass. This legislation employs a proven, recognizable, and trustworthy rating system. Issues of privacy are minimized, yet not eliminated, by the use of a secure, online database administered by the EPA. However, many issues remain unaddressed. The lack of disclosure to the public, as well as government agencies, may diminish the transparency of the program and hamper the crafting of future legislation. Moreover, the fact that owners are required to manually gather some information, and that they are not compelled to action by stringent enforcement mechanisms, may hinder compliance with the legislation.

V. IMPACT

A. The Real Estate Industry’s Response to Energy Disclosure Law

The emergence of energy disclosure throughout the nation has caused commercial property owners, and others involved in the industry, to take notice of issues involving energy usage.253 From a regulatory perspective, understanding these issues would allow owners to comply with the often complex regulations imposed upon them.254 From a business perspective, such mandated energy disclosures may have a profound impact on the commercial real estate market.255 These impacts include: 1) the possibility that buildings with lower energy ratings may decrease in value as an informed tenant pool and potential purchasers seek “greener” buildings; 2) buildings with lower ratings may see a diminished tenant pool and lower rents as tenants factor in energy costs in their triple-net leases; 3) with pro forma cash flow required for financing, less efficient buildings with potentially lower rents from tenants may have a more difficult time obtaining loans; and 4) new legislation may require capital improvements to the property such as energy retrofits.256

In response to such a trend in legislation, commercial purchasers have begun to demand a pre-purchase property condition assessment to assess the building’s energy efficiency.257 However, as the industry lacks a defined standard for such reporting, such diligence is still problematic.258 Partly in response to this concern, the industry has recently started to push for an industry standard for energy

254 See id. at 4.
255 See id.
256 See id.
257 See id.
258 See id.
ratings. The American Society for Testing and Materials International (ASTM) established a Building Energy Performance Assessment Task Group comprised of over 200 industry professionals. The result of this task group was the Building Energy Performance Assessment Standard (ASTM E2797-11). This has standardized such factors as the specific time frame over which usage is measured, how it is compiled, how the upper and lower ranges for a building should be defined, what energy metric should be employed, how normalization parameters are to be implemented, and how the most representative usage value for a building should be defined.

Due to the wide variety of “green” entities that exist throughout the United States that employ their own standards, such as the EPA, American Society of Heating, Refrigerating and Air-Conditioning Engineers, Capital Markets Partnership, and United States Green Building Council, it was decided that the task force would not create a standard rating solely aimed at benchmarking. However, the standard has been designed such that it can easily be integrated into benchmarking standards such as the EPA’s Energy Star Program. This standard is expected to become the preferred methodology for building owners to ensure compliance with energy disclosure legislation, as well as the preferred vehicle for due diligence of prospective purchasers seeking to establish the energy efficiency of a target building.

B. Economic Impact

Due to the fact that most mandatory energy rating disclosure policies are in their infancy, there exists little reliable statistical data that can attest to their market impact. However, the impact of the of the EPA’s Energy Star Program, the program implemented by AB 1103 as well as the vast majority of similar legislation, has been studied. While these studies have only been able to examine the voluntary implementation of this rating system, it is hoped that these results will hold true for mandatory programs.

259 See id.
260 See id.
261 See id. at 4. The stated objectives of ASTM E2797-11 are to:

1. Define a commercially useful practice for collecting, compiling, and analyzing building energy performance information associated with a building involved in commercial real estate transaction;
2. Facilitate consistency in the collection, compilation, analysis, and reporting of building energy performance information as may be required under building labeling, disclosure, or mandatory auditing regulations;
3. Supplement as needed a property condition assessment conducted in accordance with Guide E2018 or an environmental site assessment conducted in accordance with Practice E1527;
4. Provide that the process for building energy performance data collection, compilation, analysis, and reporting is consistent, transparent, practical, and reasonable; and
5. Provide an industry standard.

262 Buonicore, supra note 253, at 5.
263 Id.
264 Id.
265 Id.
While there have been a number of studies on the impact of the Energy Star Program, the most predominant of these is a study conducted by Fuerst and McAllister in 2009. It not only studied the economic impact of Energy Star rated buildings, but also compared the results to that of a highly regarded and implemented energy rating system—LEED. Using a sample of 834 Energy Star certified buildings, 197 LEED buildings, and nearly 15,000 buildings in the control group, Fuerst and McAllister identified a six percent rental premium for Energy Star and LEED certified buildings. Going further, it used a sample of 559 Energy Star and 127 LEED certified buildings to study trends in prices associated with certification. It found a seventeen percent price premium for Energy Star certified buildings, and no significant price premium for LEED certified buildings when compared to a control group with no certification. It also concluded that, for existing buildings, the Energy Star Program provides a more widespread scheme for eco-certification, because Energy Star certified buildings greatly outnumber those certified under the LEED program for existing buildings. However, the study also found that office properties tend to dominate both the LEED and Energy Star programs in terms of number of buildings and square footage. Because the study examined these programs while they were voluntary, this makeup of property types may change with mandatory reporting, which may, in turn, affect results.

The study concludes that, regardless of the energy rating program, there is a range of benefits for owners and occupiers of such certified buildings. There may be reduced costs of operating certified buildings such as energy and other utility savings, improved productivity, and other advantages linked to marketing and image benefits. Investors may also benefit from reduced holding costs due to lower vacancy rates and higher tenant retention, reduced operational costs because of utility savings, reduced depreciation due to capital improvements, and reduced regulatory risks. Furthermore, surveys of “willingness-to-pay” have found that tenants are prepared to compensate owners for the costs of certified buildings via higher rents.

266 See Franz Fuerst, Pat McAllister & Karen Smith, *Eco-Labeling, Rents, Sales Prices and Occupancy Rates: Do LEED and Energy Star Labeled Offices Obtain Multiple Premiums?* 3, 1 (Henley Bus. Sch., Reading Univ., Working Paper No. 2010-01, 2010). They employed a hedonic model that measured price differences between Energy Star certified buildings and randomly selected non-certified buildings in the same submarket areas. *Id.* at 1. They did this while controlling for differences in lease contract, age, height, quality, and sub-market. *Id.* at 8.

267 *Id.* at 3.

268 *Id.* at 3–4.

269 *Id.*

270 *Id.* at 3.

271 *Id.* at 6; see also *EICHHOLTZ, supra* note 158. Their study found a price and rental premium for Energy Star rated buildings, but no such premium for LEED rated buildings. *Id.* at 18.

272 *Id.* at 15.

273 *Id.* at 8–9.

274 *Id.* at 6–7. Increased productivity is hypothesized to be due to reduced staff turnover and absenteeism. *Id.*

275 *Id.* at 6–7.

276 See GVA GRIMLEY, *Research Sustainability Towards Sustainable Offices*, GVA GRIMLEY
While studies may show that there is both a rent and sales premium for buildings that comply with the Energy Star Program, the cost of compliance will be a concern of both building owners and developers. There have been a number of studies of the construction cost premium associated with achieving certification. These studies suggest small construction cost premiums of around two percent on average to comply with energy rating programs.

VI. CONCLUSION

While Europe and other foreign countries have pioneered the use of rating and disclosure laws to curb energy consumption, California has emerged as a leader in such policies in the United States. However, there are still many issues that California has yet to address. While the full impact of such laws in the United States is largely unknown, lessons learned from more mature policies should be adopted into future legislation. California’s implementation of the trusted and well-recognized Energy Star Program will allow consumers to easily compare the energy efficiency of similar buildings. However, the lack of disclosure of energy data to a public website may hamper widespread knowledge of such a program.

Many potential issues still remain in California’s AB 1103. First, there is a potential legal issue with owners collecting and authorizing the release of their tenants’ data. Second, the policy is silent on methods of enforcement, which has been shown to contribute to a lack of compliance. The policy is also silent on the timing of the disclosure of a building’s energy rating to a party to the transaction, and what kind of liability is incurred if the owner fails to disclose such information. Third, the policy does not require reporting of ratings to local government, which may make formulation of future energy efficiency policy less responsive to the realities of the commercial building market.

Despite these problems, the commercial building community appears to have embraced the need for an energy rating system. Going forward, the California legislature should integrate lessons learned from previous energy disclosure laws,

(Spring, 2007) http://www.gvagrimley.co.uk/PreBuilt/Research%20web/Occasional%20Bulletins/Towards_Sustainable_Offices_Apr07.pdf.


278 Id. Investigating the cost premium in more depth, Matthiesen and Morris studied 83 building projects with a primary goal of LEED certification and 138 similar building projects without such a goal. Id. Confirming the findings of earlier studies, they found no significant difference in average costs for building projects with a primary goal of LEED certification as compared to non-certified buildings. Id.

279 See, e.g., supra notes 12–21 and accompanying text.

280 See supra notes 217–20 and accompanying text.

281 See supra notes 223–25 and accompanying text.

282 See supra notes 226–31 and accompanying text.

283 See supra notes 249–52 and accompanying text.

284 See supra notes 253–65 and accompanying text.
as well as remain sensitive to feedback from owners as to liability pitfalls, vagueness in requirements, and difficulties in practical application.