STATE OWNED PROPERTY

EXCESSIVE ENERGY USE

ANNUAL REPORT

DECEMBER 23, 2011

HOUSE ENERGY AND UTILITIES

DATE: 1.26.2012

ATTACHMENT

Legislation

This report is being provided per K.S.A 75-37,128 which requires the Secretary of Administration to provide a written report on buildings that use and excessive amount of energy. Per this K.S.A this report is intended to for the following Legislative committees.

Joint committee on state building construction House committee on energy and utilities Senate committee on utilities

An electronic copy is to also be provided to the Legislature. The above referenced K.S.A is shown below.

75-37,128. Rules and regulations concerning energy audits for state-owned real property and leased real property. (a) The secretary of administration shall adopt rules and regulations, within 18 months of the effective date of this act, for state agencies for the conduct of an energy audit at least every five years on all state-owned real property. On or before the first day of the 2010 regular session of the legislature and on or before the first day of each ensuing regular session of the legislature, the secretary of administration shall submit a written report to the joint committee on state building construction, the house committee on energy and utilities and the senate committee on utilities, or their successors, and an electronic copy to the legislature, identifying state-owned real property locations in which an excessive amount of energy is being used in accordance with rules and regulations adopted, within 18 months after the effective date of this act, by the secretary of administration concerning energy efficiency performance standards for state-owned real property.

Rules & Regulations

The information provided in this report is based upon information submitted by State Agencies as required by the rules and regulation adopted by the Department of Administration and filed with the Secretary of State on January 7, 2011. The following is a summary of the rules and regulations that deal with building audits and agencies identifying buildings that use and excessive amount of energy.

ARTICLE 66.—ENERGY AUDITS FOR REAL PROPERTY

- 1-66-1. Definitions. For purposes of this article, each of the following terms shall have the meaning specified in the regulation:
- (a)"Agency Head" means an individual or body of individuals in which the ultimate legal authority of a state agency is vested by any provisions of law.

- (b) "Division" means the division of facilities management within the Kansas department of administration.
- (c) "Energy audit" means the utilization of a building energy-use benchmarking system, including the energy star portfolio manager, that generates a written report that details the conversion of a building's energy consumption data into energy-intensity metrics for the purpose of comparing the energy use of a building to the national average energy use of similar buildings.
- (d)"Energy consumption data" means the monthly amount of energy consumed in the preceding 12-month period as recorded by utility distributing and selling energy or water services for a particular building.
- (e) "Energy-intensity metrics" means the measurement of weather variations and changes in the physical and operating characteristics of each building.
- (f) "Energy star portfolio manager" means an online energy management tool created by the United States environmental protection agency that uses an algorithmic formula for tracking and assessing energy and water consumption across a portfolio of buildings. The energy star portfolio manager can be accessed through the division's web site.
- (g)(1) "Excessive amount of energy," when applied to a building subject to an energy audit, shall be determined by comparing the building's site and source energy-intensity metrics, annualized to a 12-month period, to the national average site and source energy-intensity metrics of similar buildings.
- (2) If the site and source energy-intensity metrics of the building subject to an energy audit are greater than the national average site and source energy-intensity metrics, then the building shall be deemed to use an excessive amount of energy.
 - (h) "Secretary" means the secretary of the Kansas department of administration.
- (i) "State agency" has the meaning specified in K.S.A. 75-3701, and amendments thereto. (Authorized by and implementing K.S.A. 2009 Supp. 75-37, 128; effective Feb. 4, 2011.)
- 1-66-2. Energy audit required for each state-owned building. (a) If a state agency owns real property, the agency head, or that person's designee, shall conduct and energy audit of each building on that real property and submit the written report to the division.
- (b) An energy audit shall be conducted every five years for each building specified in subsection (a).
- (c) If a state agency owns four buildings or less, the written reports for the first energy audits for all of the buildings shall be submitted no later than July 1, 2011.
- (d) If a state agency owns five or more buildings, an energy audit for at least one-fifth of all those buildings shall be conducted each year. The written reports for the first energy audits shall be submitted no later than July 1, 2011.
- (e) Each state agency conducting an energy audit shall indentify each state-owned building in which an excessive amount of energy is being used, pursuant to K.S.A. 75-37, 128 and amendments thereto. (Authorized by and implementing K.S.A. 2009 Supp. 75-37,128; effective Feb. 4, 2011.)

<u>Information Provided by State Agencies</u>

To date the Department of Administration has received 506 audits from agencies that own buildings in the state. To tmake sure we had good participation, the Department of

Administration sent written notifications to agency contacts first on February 16, 2011 and again on August 12th, 2011. This notification detailed the requirement of the new regulations noted above. The second notification also set a new deadline of October 1st for submission. The second notification helped get to get agency attention and increased the number of submission we received. Finally on December 7th, agencies that had not sent any information were called and asked when they would get the submissions to us. Most of these agencies were still working on the submissions and indicated that they would be getting something that could be included next year. The following are agencies that have not submitted any or incomplete information at this time.

Adjutant General
Insurance Department
Social Rehabilitation Services
University of Kansas
Kansas School for the Blind
Kansas School for the Deaf
Department of Wildlife and Parks

Many of the state agencies have indicated that they have had problems with the data entry and report retrieval from Energy Star program. The following are some of the most common issues we have heard reported back to us.

- 1. The natural gas data entry in Energy Star gives an option to pick the units on how the agency is being billed. Most natural gas bills are billed in Mcf which 1 Mcf is equal to 1,000 cubic feet of natural gas (the M is a roman numeral meaning 1,000). In Energy Star you are given the option to pick an Mcf, however it looks at an Mcf as being 1,000,000 cubic feet (the M is a metric system acronym that stand for 1,000,000). The agencies need to be picking a Kcf which stands for 1,000 cubic feet. We believe that this error has caused a number of the audits to come back showing buildings are extremely high energy users.
- 2. Many of the campuses have either central power, central steam or both that distributes energy to a number of buildings but comes back as one bill. We have told agencies that the best way to handle this if they do not have individual building metering is to ratio the bills out based upon the square footage of the buildings. Some of the agencies have done this while others have just accounted for all the energy going to the building that the utility bill is associated with. Again this ends up skewing data by making one building look extremely inefficient while others look efficient since they are shown not using any of the energy.
- 3. The Universities have noted that as they enter information on many of their buildings there is not a good category for Energy Star to compare them to. When they choose "Other College/University (Campus-Level)" Energy Star gives and (NA) under the rating. However, while Energy Star does not give a rating it does do a comparison against a national average which will indicate if the building uses more or less energy than the average building of that type.

During this next year we hope to set up a meeting to try and point people in the right direction for avoiding the above mentioned problems.

Buildings that Use & Excessive Amount of Energy

Of the 506 building audits that were submitted, 153 of these audits indicated that the building used an excessive amount of energy. On the following pages is a list of these buildings. In support of this list is a copy of the audit that was submitted for each building.

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Commission Com	34 Yes	89	87	1,849,892		21,155	Fort Dodge	Grant Hall	694 Commision on Veteran's Affairs
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Kansas State University Haymaker Hall Bullding/Name City Area(f(2)) Reiformatice Kansas State University Haymaker Hall Manhattan 125,132 41 Kansas State University Hoeflin Stone House Manhattan 16,273 41 Kansas State University Indoor Practice Facility Manhattan 97,248 41 Kansas State University International Grains Program Manhattan 19,732 41 Kansas State University International Student Center Manhattan 6,439 43 Kansas State University Intramural Fields Bidg Manhattan 576 43 Kansas State University Justin Hall Manhattan 148,768 41,516 Kansas State University Kedzie Hall Manhattan 41,516 44,559 Kansas State University Kedzie Hall Manhattan 44,559 45 Kansas State University Kedzie Hall Manhattan 44,559 45 Kansas State University Kog Garden Maintenance Manhattan 2,250	90 Yes	120	262	71,563,633		272,640	Manhattan	Mosier Hall	367 Kansas State University
Kansas State University Kansas State University Kansas State University Kansas State University Kansas State University Kansas State University Haymaker Hall Hoeflin Stone House Holtz Hall Indoor Practice Facility Kansas State University Kansas State University Kansas State University Kansas State University International Grains Program Kansas State University Kansas State Univ	43 Yes	120	242	6,880,374		28,475	Manhattan	Leadership Studies	367 Kansas State University
Ageingy Name Building Name City Area ((f2)) Refrommance City Area ((f2)) Refrommance City Area ((f2)) Refrommance City Area ((f2)) Refrommance City Area ((f2)) Refrommance City Area ((f2)) Refrommance City Area ((f2)) Refrommance City Area ((f2)) Refrommance City Refrommance Ci	22 Yes	120	185	415,775		2,250	Manhattan	KSU Garden Maintenance	
Agengy Name Building Name City Area ((f2)) Kansas State University Haymaker Hall Conservations State University Hoeflin Stone House Manhattan 15,732 41. Kansas State University Hoeflin Stone House Manhattan 6,950 Holtz Hall Holtz Hall Manhattan 97,248 Kansas State University Indoor Practice Facility Manhattan 97,248 Kansas State University International Grains Program Manhattan 19,732 Manhattan 19,732 Manhast State University International Student Center Manhattan 6,439 Manhattan 6,439 Manhattan 19,768 Mansas State University International Student Center Manhattan 576 Manhattan 148,768 Mansas State University International Student Center Manhattan 148,768 Manhattan 148,768 Manhattan 148,768 Manhattan 41,616	21 Yes	120	184	8,216,189		44,559	Manhattan	King Hall	367 Kansas State University
Agengy Name Building Name City Area ((f2)) Renformative City Area ((f2)) Renformative City Area ((f2)) Renformative City Area ((f2)) Renformative City Area ((f2)) Renformative City Area ((f2)) Renformative City Area ((f2)) Renformative City Area ((f2)) Renformative City Area ((f2)) Renformative City Area ((f2)) Renformative City Area ((f2)) Renformative City Area ((f2)) Renformative City Area ((f2)) Renformative City Area ((f2)) Renformative City Area ((f2)) Renformative City Area ((f2)) Renformative City Area ((f2)) Renformative Manhattan (f2,73) Renformative City Area ((f2)) Renformative Manhattan (f2,73) Ren	22 Yes	120	185	7,684,972		41,616	Manhattan	Kedzie Hall	367 Kansas State University
Ransas State University Haymaker Hall Haymaker Hall Haymaker Hall Kansas State University Hoeflin Stone House Kansas State University Hoeflin Stone House Kansas State University Holtz Hall Kansas State University Holtz Hall Kansas State University Holtz Hall Kansas State University Holtz Hall Kansas State University Holtz Hall Kansas State University Holtz Hall Kansas State University Kansas State University Holtz Hall Indoor Practice Facility Kansas State University Manhattan Holtz Hall Manhattan Holtz Hall Kansas State University Manhattan Holtz Hall Manhattan Holtz Hall Manhattan Manhattan Holtz Hall Manhattan M		120	184	27,432,373		148,768	Manhattan	Justin Hall	367 Kansas State University
Ransas State University Haymaker Hall Haymaker Hall Hoeflin Stone House Kansas State University Hoeflin Stone House Holtz Hall Kansas State University Holtz Hall Kansas State University Holtz Hall Kansas State University Holtz Hall Kansas State University Holtz Hall Kansas State University Holtz Hall Kansas State University Holtz Hall Kansas State University Holtz Hall Manhattan	23 Yes	120	187	107,892		576	Manhattan	Intramural Fleids Bldg	367 Kansas State University
Ransas State University Haymaker Hall Haymaker Hall Hoeflin Stone House Kansas State University Hoeflin Stone House Holtz Hall Holtz Hall Kansas State University Holtz Hall Kansas State University Hoeflin Stone House Manhattan 16,273 Manhattan 6,950 Manhattan 7,248 Mansas State University Manhattan Manhattan 19,732 Manhattan Manhattan Manhattan Manhattan Manhattan Manhattan Manhattan Manhattan Manhattan Manhattan Manhattan Manhattan Manhattan Manhattan Manhattan Manhattan	21 Yes	120	184	1,187,269		6,439	Manhattan	International Student Center	367 Kansas State University
Rainsas State University Reiform House Reiform House Reiform House Reiform House Reiform House Reiform House Reiform House Rainsas State University	21 Yes	120	184	3,636,733		19,732	Manhattan	International Grains Program	
Agency/Name Building/Name City Axea((ft.2)) Raings State University Haymaker Hall Kansas State University Hoeflin Stone House Kansas State University Hoeflin Stone House Manhattan 16,273 Raings State University Hoeflin Stone House Manhattan 6,950 Manhattan 6,950 Manhattan 6,950	21 Yes	120	184	17,929,631		97,248	Manhattan	Indoor Practice Facility	
Agency:Name Bujlding/Name C(Hy Area;(ft2) Rating State University Haymaker Hall Haymaker Hoeflin Stone House Manhattan 16,273	21 Yes	120	184	1,281,734		6,950	Manhattan	Holtz Hall	
Agency Name Building Name City Area (ft2): Rating 41 Kansas State University Haymaker Hall Manhattan 125,132	60 Yes	120	217	3,531,810		16,273	Manhattan	Hoeflin Stone House	
e Bujjdingiyang Cty Area(f2) Bating	11 Yes	112	124	15,461,468	41	125,132	Manhattan	Haymaker Hall	
	urce EUIUse	eui 🚅 📑 so	KBtu/ft2/yr):	Energy (kBtu)	Rating	Area (ft2)	City	BijidingiName	Agency/H
	mAverage Energy	erage Site Natio	El-Site Ave	SEULTotal	e Performance	Gross Floors			

		111	3.034.613		0 770	Kanna 0:4:	Hoglind Brain Imaging Catar	obstrutyledical center
Yes		154	9,080,955	17	59,010	Kansas City	Landon Center on Aging (CHIA)	683 KU Medical Center
Yes		207	21,679,022	20	104,971	Kansas City	School of Nursing	000 NO Medical Center
Yes		316	66,750,157	4-4	211,457	Kansas City	HUSIC	683 VI Madical Center
Yes		311	24,969,206	μλ	80,250	Kansas City	Lied Biomedical	683 KU Wedical Center
Yes		237	27,959,832	4	118,157	Kansas City	Orr Major	
Yes		171	6,956,581	16	40,620	Kansas City	Briendenthal	
Yes		131	5,148,493	48	39,363	Kansas City	4125 Rainbow - Design & Constr.	683 KU Medical Center
Yes		203	11,125,658	19	54,684	Kansas City	Miller	683 KU Medical Center
Yes		641	5,079,469	1	7,920	Kansas City	Breidenthal Annex	
Vac		221	10,032,441	11	45,406	Kansas City	Smith East	683 KU Medical Center
Yes		221	2,791,558	д	12,635	Kansas City	Smith West	683 KU Medical Center
Yes		275	21,279,312	1	77,810	Kansas City	Research Support	683 KU Medical Center
Vec		212	12,519,499	26	59,064	Kansas City	Dykes Library	683 KU Medical Center
Yes		207	26,180,464	19	126,751	Kansas City	Wahl East (WHE)	
Vac		213	5,878,654	6	27,552	Kansas City	Children's Development Unit (CDU)	683 KU Medical Center
Yes		199	12,378,388	24	62,100	Kansas City	Robinson (L)	683 KU Medical Center
Yes		198	11,526,955	17	58,148	Kansas City	Student Center	683 KU Medical Center
Yes		216	7,212,389	38	33,357	Kansas City	Taylor (ET)	
Yes		240	16,545,978	4	69,014	Kansas City	Wahl West (WHW)	683 KU Medical Center
Yes		279	9,614,751	23	34,408	Kansas City	Eaton (E)	683 KU Medical Center
Yes		232	27,460,394	7.	118,117	Kansas City	Delp Pavillion (D)	683 KU Medical Center
Yes		248	23,760,368	ω	95,754	Kansas City	Sudler	
Vac		217	5,481,188	∞.	25,244	Kansas City	Wesco Pavillion (C)	683 KU Medical Center
Vac		222	4.801.657	2	21,585	Kansas City	Hixon	683 KU Medical Center
Vac		186	14.535.088	37	78,050	Kansas City	Wescoe Pavillion (B)	683 KU Medical Center
Ver		371	6.635.089	<u>1</u>	17,877	Kansas City	Wahl Annex	683 KU Medical Center
Var		203	10.391.618	13	51,256	Kansas City	Murphy Administration	683 KU Medical Center
100 Var	60	201	2.134.710		10,624	Great Bend	KBI - Great Bend	83 Kansas Bureau of Investigation
		3	328.780		288	Topeka	Greenhouse #2	352 Kansas Juvenile Correctional Complex - West
Sal CC	777	28	1.633.416		19,108	Kansas City	Kansas City Workforce Center	300 Department of Commerce
Vas Yes			521,482		4,568	Topeka	Power Plant	352 Kansas Juvenile Correctional Complex - West
Yes			2,604,899		22.818	Topeka	Vocational/Maintenance	352 Kansas Juvenile Correctional Complex - West
res			572 169		5.012	Topeka	Horticulture/Landscape	352 Kansas Juvenile Correctional Complex - West
res			125.576		1,100	Topeka	Greenhouse #1	352 Kansas Juvenile Correctional Complex - West
	Į,		872.752		7,645	Topeka	Pool Building	352 Kansas Juvenile Correctional Complex - West
16 Vac	20	25	278.173		8,004	Salina	Power Plant	280 Kansas Highway Patrol
V 165			835,093		12,317	Topeka	Central Unit - Gym	660 Topeka Correctional Facility
Vas			375.273		5,535	Topeka	Central Unit - Central Storage	660 Topeka Correctional Facility
Voc C			66,433		2,001	El Dorado	Heartbeat Detector Building	195 El Dorado Correctional Facility
Yes			9,960		300	El Dorado	Hazaedous Caustic/Toxic Stor	195 El Dorado Correctional Facility
Vac			38,710		340	El Dorado	Compound Shakedown - East	
Yes			49,770		450	El Dorado	Compound Shakedown - West	
Yes			132,800		4,000	El Dorado	Quonset Building	
Vec			44,240		400	El Dorado	South Sally Port - Shakedown	195 El Dorado Correctional Facility
Vac			3,984	•	120	El Dorado	Weapos Storage - Sally Port	195 El Dorado Correctional Facility
Vec			2,068,220		18,700	El Dorado	Warehouse	195 El Dorado Correctional Facility
Ves		,	1,047,382		9,470	El Dorado	Auto Manintenance	195 El Dorado Correctional Facility
Var			1,424,085		12,876	El Dorado	Maintenance	195 El Dorado Correctional Facility
		**************************************	1,548,400		14,000	El Dorado	Energy Center	195 El Dorado Correctional Facility
SOIICA E III		(kBtu/ft2/wr)	Energy (kBtu)	Rating	Area (ft2)	CIN	S Building Name	# Agency Name 1990
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