



Some Energy-Related Mandates Effecting Texas Public Entities

Senate Bill 12 80th (R)

House Bill 3693 80th (R) – amended by SB300 81st (R)

House Bill 1831 81st (R) / House Bill 4409 81st (R)



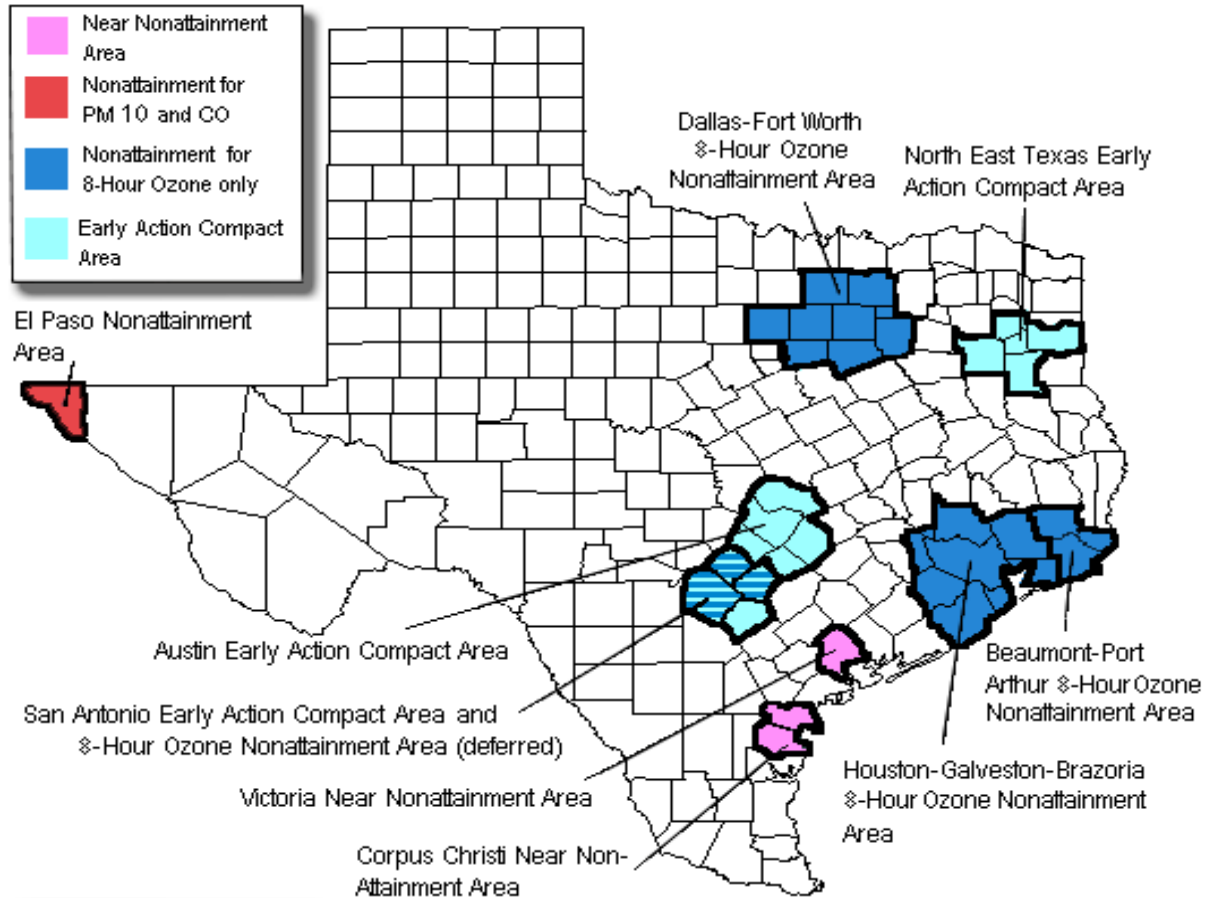
State Energy Conservation Office

**What are the mandates of Senate Bill 12 80th (R)
for Political Jurisdictions (enacted 9/1/07)?
*(previously SB5)***



State Energy Conservation Office

Texas SB12 Non attainment and Affected Counties – 41 Counties



Texas SB12 Non attainment and Affected Counties – 41 Counties

- Bastrop
- Bexar
- Brazoria
- Caldwell
- Chambers
- Collin
- Comal
- Dallas
- Denton
- El Paso
- Ellis
- Fort Bend
- Galveston
- Gregg
- Guadalupe
- Hardin
- Harris
- Harrison
- Hays
- Henderson
- Hood
- Hunt
- Jefferson
- Johnson
- Kaufman
- Liberty
- Montgomery
- Nueces
- Orange
- Parker
- Rockwall
- Rusk
- San Patricio
- Smith
- Tarrant
- Travis
- Upshur
- Victoria
- Waller
- Williamson
- Wilson

Senate Bill 12 Mandates (as of 9/1/07)

Health & Safety Code Section 388.005

Political Subdivisions (cities and counties) in the 41 Non-attainment and "affected" Counties shall:

- 1) Adopt a goal to reduce electrical consumption by facilities by 5% each year for 6 years, beginning September 1, 2007.
- 2) Implement all energy efficiency measures for existing facilities that meet the standards established for a contract for energy conservation measures under Local Government Code Section 302.004(b). (20 – year payback)
- 3) Submit SB12 *annual report* to SECO regarding the entity's energy efficiency progress, efforts and facility characteristics and consumption data.

Senate Bill 5 (2001 – 2005) Reporting results

- 280 political subdivisions established goals
- Many have requested preliminary energy assessments
- All large cities reported
- Increased County participation
- Each non-attainment region represented
- For jurisdictions reporting their baselines...

447.10 tons/year NO_x reductions in 2005 (ESL, TX A&M)

(based on data provided by the jurisdictions)

Reported Energy Reductions (SB5) (2001-2005)

- Longview (47%)
- Nederland (36%)
- Bellaire (25%)
- Ft. Worth (22%)
- Allen (20%)
- Galveston (19%)
- Conroe (15%)
- Dallas (9%)
- VIA Metro (6%)



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House Bill 3693 *(as of 9/1/07)*

80th Regular Session

...Modified by **SB300** *(as of 9/1/09)*

81st Regular Session

HB3693 Mandates (for School Districts) 80th Session (as of 9/1/07)

1. Board of Trustees to Adopt a goal to reduce electrical consumption by facilities by 5% each year for 6 years, beginning September 1, 2007. *(Amended by SB300)*
2. Record and report the entity's metered resource consumption usage data for electricity, natural gas and water on a publically accessible internet page (includes political jurisdictions)
3. Purchase and use energy-efficient light bulbs for instructional facilities.

SB300 Amends HB3693

81st Session (as of 9/1/09)

Relating to eliminating or modifying certain mandates on school districts

- Modifies the energy efficiency goals mandated in HB3693.
 - 5% per year “Goal-setting” repealed and replaced with a requirement that school districts establish a long-range energy plan to reduce energy consumption by 5%, starting FY2008 and to follow that plan for subsequent years.
 - The plan must include strategies for achieving energy efficiency that results in net savings or can be achieved without any cost, and requires that each strategy consider an analysis of short-term capital costs as well as lifetime costs/savings that may result from the strategy. The analysis shall consider a 7-year term.
 - The plan may be submitted to SECO to determine loan program eligibility.

House Bill 1831 and 4409 81st (R)

(enacted 9/1/09)

Energy Security for Critical Buildings

Energy Security for Critical Buildings House Bills 1831 and 4409 81st (R) Session (enacted 9/1/09)

All government entities must:

- Identify government-owned buildings and facilities that are critical in emergency situations.
- Prior to constructing or making extensive renovations to a critical governmental facility, the entity in control of the facility must obtain a feasibility study to consider the technical opportunities and economic value of implementing CHP.
- When the expected energy savings of the CHP system exceed the expected costs of purchasing, operating, and maintaining the system over a 20-year period, equipping the facility with a combined heating and power system is preferred to promote energy security.

Energy Security for Critical Buildings

House Bills 1831 and 4409

A critical building is:

- Owned by the state or a political subdivision of the state; has a peak electricity demand exceeding 500 kilowatts; is continuously occupied and maintains operations for at least 6,000 hours each year, and;
- Expected to continue serving a critical public health or safety function throughout a natural disaster or other emergency situation, even when a widespread power outage may exist for days or weeks

Critical Facility examples can include hospitals, nursing homes, command and control centers, shelters, prisons and jails, police and fire stations, communications and data centers, water or wastewater facilities, research facilities, food preparation or food storage facilities, hazardous waste storage facilities, and similar operations.

Energy Security for Critical Buildings House Bills 1831 and 4409

Resources are available to assist with HB1831/HB4409:

- Free or low cost CHP feasibility studies
- Project support services
- Possible LoanSTAR project identification
- Free Webinars, Workshops and Training
- Other services are available for private industry

For more information please contact:

Gulf Coast Clean Energy Application Center
Daniel Bullock; 281-364-6087; dbullock@harc.edu
<http://www.gulfcoastcleanenergy.org/>

**How can SECO help to meet
some of these mandates?**

About SECO

SECO's Mission:

To Maximize Energy Efficiency while Protecting the Environment

DOE/EERE state level program conduit (State Energy Program)

Public sector energy/water efficiency

Provides assistance to state agencies, political subdivisions, schools and institutions of higher education

Implementation of Legislative policies and directives
(State Energy Code; SB12; HB3693 amended by SB300)



State Energy Conservation Office Program Areas

Alternative Fuels
Building Codes and Standards
Building Efficient Technologies
Clean Cities
Colonias Initiatives
Energy Education Curriculum
Energy Education Outreach
Energy Management Training
Energy Management Services
Housing Partnership Program
Innovative Energy Program
LoanSTAR Program
Marine Fuel Efficiency
Energy Saving Performance Contracting
Renewable Energy Education

Residential Energy Code Training
Schools/Local Government Energy Efficiency
Pantex - Amarillo
State Agency Energy Advisory Group
Solar for Schools
State Facilities Utility Management
Sustainable School Design
Texas Energy Design Standard
Texas Energy Partnership
Texas Industrial Energy Efficiency
Water Conservation Guidelines
WATT Watchers
Waste Isolation Pilot Plant (WIPP)



SECO Program Resources and Updates

Schools / Local Government Energy Efficiency

LoanSTAR

SECO Stimulus Programs

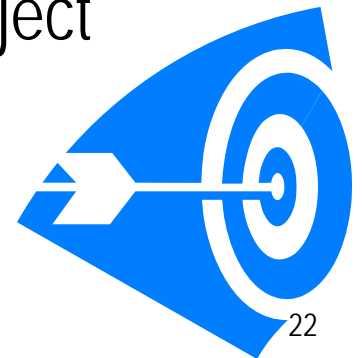
SECO Schools / Local Government Energy Efficiency

Resources for Schools / Local Governments:

- Preliminary Energy Assessments (PEA's)
- Technical Assistance
- Energy Efficiency Codes, Standards, Purchasing, Maintenance
- Regional energy management workshops
- Facilitates SB12 compliance (Local Govts only)

Preliminary Energy Assessments

- Baseline energy analysis / Phase 1 Audits
- Identify system optimization and equipment replacement projects options
- Provide project cost estimates (equipment and installation)
- Provide estimated energy and cost savings
- Payback analyses for each recommended project



Schools / Local Government Energy Efficiency

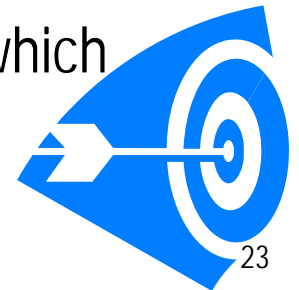
Preparing for a Preliminary Energy Assessment

Organize and assemble facility consumption data

- By meter or facility
- One year of utility data provides for a baseline analysis to compare future consumption

Meet with Engineering Contractor to Determine Timeline and which four facilities to assess

Contractor will conduct assessment and provide a report which summarizes the data

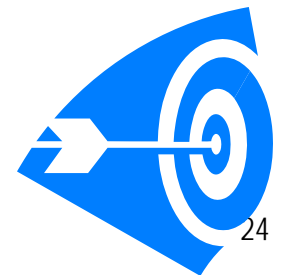


Schools / Local Government Energy Efficiency

Utilize the PEA as a tool and a resource

- Maintenance and Operations Recommendations
- General scope of future projects
- Identify projects with higher ROI's
- SB12 Compliance
- Provides ability to identify long and short term needs, resource efficiency potential

*Note that it is preliminary, but that it provides a good facility 'big picture'

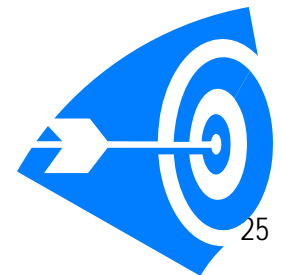


SECO Local Government Program

Current Status

Local Governments PEA Update

- High Demand for assessment services by Public Sector
- Seventy (70) PEA's In queue
 - Cities, Counties, Special Districts
 - Over 1 million population represented by entities on waiting list
 - Entities will need to compile utility consumption data
- Three SECO Engineering Services Contractors
- Workshops to be determined at later date
- Not a substitute for investment-grade energy audit



SECO LoanSTAR Program

Current Status

LoanSTAR Low Interest Loans (competitive; NOLFA)

New Competitive Process for Traditional and Stimulus LoanSTAR programs

- Notice of Loan Funding Availability
- Basic LoanSTAR
 - 10 year ROI
 - Biannual NOLFA
 - Variable Interest and Maximum Loan Amounts for each NOLFA
- Stimulus LoanSTAR
 - 2% interest
 - 10 year ROI; 15 year ROI with Renewable element
 - Projects in payback by 2012



State Energy Conservation Office

SECO STIMULUS / ARRA Resources

www.secostimulus.org

State Agency/Appropriation Item	Amount
State Energy Program (SEP) <ul style="list-style-type: none">• Building Efficiency and Retrofit• Transportation Efficiency• Distributed Renewable Energy Technology• Energy Sector Training Centers• Public Education and Outreach	\$218,782,000
Energy Efficiency and Conservation Block Grant (EECBG) Program	\$45,638,100
Energy Efficient Appliance Rebate Program	\$23,341,000
Energy Assurance (EA) Program	\$2,432,068
Total estimated amount of ARRA funding to SECO	\$290,193,168



State Energy Conservation Office

SECO STIMULUS / ARRA Updates

www.secostimulus.org

\$23.3
Million

Appliance	Rebate	With \$75 Recycling Rebate
Refrigerator	\$240	\$315
Freezer	\$180	\$255
Room Air Conditioner	\$45	\$120
Clothes Washer	\$150 or \$180*	\$225 or \$255
Dishwasher	\$110 or \$140*	\$185 or \$215
Central Air Conditioner	\$600 , \$800 or \$1,000*	\$675, \$875 or \$1,075
Heat Pump	\$1,200 - \$1,600*	\$1,275 - \$1,675
Water Heater	\$190 - \$640*	\$265 - \$715

*depending on appliance type and energy efficiency of model purchased



State Energy Conservation Office

SECO STIMULUS / ARRA Resources

www.secostimulus.org

*Alt.
Fuels
Projects
Awarded
12/18/10*

@ \$11 Million

Award Amount	Governmental Entities
\$3.1 million	Railroad Commission of Texas
\$2.5 million	North Central Texas Council of Governments
\$1.8 million	Mansfield Independent School District
\$924,000	City of Laredo
\$607,209	City of Austin
\$500,000	City of Houston
\$400,000	City of Corpus Christi Gas Department
\$396,180	City of El Paso/Sun Metro
\$256,000	City of El Paso
\$200,000	University of Texas at Austin
\$107,800	City of Dumas
\$90,000	City of San Antonio
\$56,000	Texas Parks and Wildlife Department
\$15,237	Port of Corpus Christi Authority



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SECO STIMULUS / ARRA Resources

www.secostimulus.org

Traffic Signal Project Awards 1/14/10

@ \$6 Million

Award Amount	City/County
\$1,856,000	City of Bedford
\$750,000	City of Fort Worth
\$419,900	City of Grand Prairie
\$392,500	City of Allen
\$373,866	City of Bryan
\$362,500	City of North Richland Hills
\$308,688	City of Cedar Hill
\$308,000	City of Grapevine
\$270,080	City of Killeen
\$251,590	City of Beaumont
\$191,195	Montgomery County
\$166,880	City of Missouri City
\$134,400	City of Frisco
\$100,000	City of Brownsville
\$86,400	City of Cedar Park
\$28,000	City of Waco



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SECO STIMULUS / ARRA Resources

www.secostimulus.org

More to Come from the Stimulus Program...

Building Efficiency and Retrofit NOLFA/RFA:

Applications due by 4/22/10

Distributed Renewable Energy Technology:

32 applications awarded; more to come

Energy Efficiency and Conservation Block Grants (EECBG):

There are currently over 1000 contracts being drafted for approved EECBG activities throughout the state

Energy Sector Training Center Grants

Applications for these funds are currently under review and winners will be announced soon.

SECO STIMULUS Team

Keep up with the Stimulus activities:

- Sign Up for Email Updates, Announcements, Solicitation Info:

SECO Stimulus – www.secostimulus.org

- Track Stimulus Funding and Spending:

Comptroller Recovery Web Page – www.window.state.tx.us/recovery

SECO Stimulus Team Inquiries: 512-463-7392

www.secostimulus.org

Other Opportunities

State Business Solicitations and Opportunities:

Electronic State Business Daily: www.esbd.state.tx.us

Daily list of bids and other solicitations seeking vendors to provide contracted products or services

Texas Register: Regular listing of state solicitations provided by the Secretary of State and located on the website; www.sos.state.tx.us

TPASS: Sign up to be a registered vendor for the state on the Comptroller website at www.window.state.tx.us

Other Opportunities

Energy Grants, Programs and Incentives:

Grants.gov – www.grants.gov

Comprehensive list of Federal Grants

DSIRE Website – www.dsireusa.org;

Database of Energy Efficiency programs and incentives provided by government (Fed, State, Local) including utility rebates, Federal Tax incentives, and others

SECO Stimulus – www.secostimulus.org;

Funds to allocate and distribute; Look for announcements for public sector opportunities; Lots of Tools for Resources and Links to updated information

Gulf Coast Clean Energy Applications Center – www.gulfcoastchp.org

Free CHP feasibility study for Industry (Fuel cells; CHP; Energy Efficiency)

What next?



State Energy Conservation Office

Do what has worked...

- A Local Decision Maker
- Partnerships (Utilities, Regional, Industry)
- Key Directives (legislative, policy, resolution, or ordinance stating specific actions)
- An Action Plan...a policy with a clear goal & objective
- Remain Flexible
- Take Action



State Energy Conservation Office

Taking Action...

- Energy manager positions created
- Energy Goals – Resolutions and Ordinances passed
- Workshops and Education – employees, constituents, customers
- Community-based initiatives established to save energy
- High performance / sustainable building codes and other resource efficiency (water and energy) standards established for public facilities and non-governmental buildings



Questions?

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State Energy Conservation Office

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LoanSTAR

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www.secostimulus.org

Thanks!