

MODELING FOR SAVINGS

Commercial New Construction Energy Efficiency Program For projects less than 50,000 square feet

PROGRAM HANDBOOK
FISCAL YEAR 2019 - 2020





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1. Program Overview

1.1. Introduction

The Modeling for Savings program is a San Francisco Public Utilities Commission (SFPUC) energy efficiency program for nonresidential New Construction Projects which are less than 50,000 square feet. Modeling for Savings helps Hetch Hetchy Power electric customers design and construct highly energy efficient buildings, and rewards them for exceeding performance standards. The program offers cash payments to electric customers who use the Performance Approach for Title 24 compliance in their building permitting process, and who then take advantage of the building energy model and the whole building design approach to strive for deeper-than-code energy savings.

Financial incentives include:

- \$4,500 Modeling Incentive to reduce the cost of computerized building energy modeling and the cost of the design effort needed to exceed code
- \$0.10 to \$0.30 per kWh Energy Savings Incentive for all Title 24 electric energy savings which exceed the minimum Title 24 code requirements

Modeling for Savings incentives are available to Hetch Hetchy Power electric service customers for New Construction Projects that meet the following criteria:

- Projects on qualifying Commercial, Industrial, and Municipal Enterprise Department electric rates (Residential, Municipal Schedule–M2, and CleanPowerSF rates are not eligible. See definition of Qualifying Electric Rates)
- Projects less than 50,000 square feet
- Projects with building permits issued that have used the Performance Approach to Title 24 compliance rather than the Prescriptive Method
- Projects that exceed the Title 24 minimum compliance standard by at least 10%
- Projects applying to the program no later than 120 days from receipt of the building permit
- See additional eligibility details and rules in Section 2

Program forms & instructions are available through your Hetch Hetchy electric service representative, or Modeling for Savings program staff at 415-551-4623 and SaveEnergy@sfwater.org, or on-line at sfwater.org, or on-line at sfwater.org.

1.2. Benefits of Participation

The Modeling for Savings program and its financial Incentives are offered to support beyond-code energy efficiency efforts, by promoting the Performance Approach to Title 24 compliance, and by helping to reduce the increased costs of energy modeling, design, coordination, and construction. The Performance Approach to compliance supports a "whole building" design approach that facilitates the evaluation of the "interactive effects" of the building's energy systems, and provides design flexibility not achievable with Title 24's Prescriptive Approach.

Participation in the program may benefit customers through added design flexibility, reduced construction and long-term operating costs, and greater comfort, health and productivity for occupants. The program also helps customers advance the conservation of natural resources, including SFPUC's clean Hetch Hetchy hydroelectric and renewable resources.

1.3. Definitions

Alternative	Official method for demonstrating performance compliance with
Calculation	California's Title 24 Energy Efficiency Standards. The 2016 (or
Method (ACM)	current) Nonresidential ACM Reference Manual is available from the
	California Energy Commission (CEC-400-2015-025-CMF-REV)

Application Documents	The Application and Notice of Project Completion submitted by the Customer to the Modeling for Savings program, including all submittals, exhibits, schedules, appendices and attachments thereto.		
Building Department	The local regulatory building safety agency responsible for overseeing the enforcement of building compliance including plan review, permit issuance, and inspection to ensure construction is code compliant (i.e., within the City and County of San Francisco, this is the City's Department of Building Inspection).		
Compliance Margin	Compliance Margin, as used in the Modeling for Savings program is identical to "Percent Better than Standard Design" from the project's Title 24 compliance form NRCC-PRF-01-E, Table B. (Using Title 24's Alternative Calculation Method, Compliance Margin is the percent difference between the Proposed Design's energy use, and the Title 24 Standard Design's energy use, both measured in time dependent valuation (TDV) units of energy. The Modeling for Savings program requires a Title 24 Compliance Margin to be at least 10%. The Compliance Margin also establishes the program's Energy Saving Incentive rate.)		
CBECCS-Com	California Building Energy Code Compliance for Commercial Buildings (CEBECCS-Com) is a public domain computer program that allows architects, engineers, and energy consultants to demonstrate compliance with Title 24.		
Customer	The Customer is the developer of a New Construction Project participating in the Modeling for Savings program. The Customer must: (1) have the legal right to develop and implement the project, and (2) be the electricity customer of record for the New Construction Project. A tenant may be considered the Customer for the purposes of the Modeling for Savings program, if the tenant: (1) has a lease or rental agreement, (2) has all necessary rights to construct the project, and (3) is the electricity customer of record for the New Construction Project. For a municipal New Construction Project, the Customer shall be the municipal department head or their designee.		
Customer Account	A Hetch Hetchy Power customer of record at a single service site address. A Customer Account service site may be served by more than one electric meter. More than one Customer Account may exist at a site address if there are multiple customers of record at the site.		
Electric Service Agreement	For the Purposes of this Modeling for Savings program "Electric Service Agreement" shall mean the agreement establishing the enrolled New Construction Project as a permanent electric customer of the SFPUC.		
Energy Efficiency Measure or EEM	Any type of project conducted, or technology implemented, to reduce the consumption of energy in a building		
Estimated Incentive Amount	The estimated Incentive payment amount, based on program rules and on the project's building permit and Title 24 compliance documents, as is listed in the Reservation Notice sent to the Customer.		
Incentive	Financial Incentives available to the Customer for project implementation under the Modeling for Savings program, including both the Modeling Incentive and the Energy Savings Incentive.		
Mixed Use	New Construction Projects which include more than one occupancy type (e.g., commercial and residential). To be eligible, the portion of the New Construction Project applying for the Modeling for Savings program must on its own meet all of the program requirements. The residential portions of a Mixed Use project are not eligible for the Modeling for Savings program.		

New Construction	(Eligible) New Construction Projects, are located at a single Customer Account service site address, and are any one of the following:			
Project	New building projects less than 50,000 square feet where no structure or site footprint presently exists.			
	 Additions or expansions adding less than 50,000 sq. ft. to an existing building or site footprint. 			
	 Construction that involves complete removal, redesign, and replacement of the major energy consuming systems serving a space less than 50,000 sq. ft. 			
	 Projects, including tenant improvements, which require design and selection of new systems based upon the needs of new or modified space function(s) serving a space less than 50,000 sq. ft. 			
Non-Title 24 Measure / Exceptional Measure	Non-Title 24 Measures are Energy Efficiency Measures or systems that are not included in Title 24 and which are not captured by a Title 24 compliance model (e.g., certain plug and process loads reductions). Exceptional Measures are measures covered under Title 24 but which cannot be accurately modeled in Title 24 compliance software (e.g. natural ventilation).			
Performance Approach	As defined under Title 24, Part 6, buildings comply with Title 24 under the Performance Approach if the energy budget calculated for the Proposed Design is no greater than the energy budget calculated for the Standard Design. The program considers a New Construction Project to be using the Performance Approach even if some building energy systems comply using the Prescriptive Approach.			
Prescriptive Approach	As defined under Title 24, Part 6, a building complies with Title 24 under the Prescriptive Approach by meeting specific requirements for each major building system, including envelope, space-conditioning, indoor lighting, mechanical ventilation and service water heating and covered process loads.			
Program Year	The Program Year for annual funding begins July 1 and ends June 30 the following calendar year, consistent with SFPUC's fiscal year.			
Project Completion Date	The date when the local Building Department signs off the Building Permit Job Card indicating all work is completed, and all project measures are operational.			
Proposed Design (ref. Title 24)	The Proposed Design is the building project as documented in a building's plans and building permit documents. Under Title 24's Performance Approach, the energy budget for a Proposed Design building is compared to that of a Standard Design building.			
Qualifying Electric Rate	Qualifying Electric Rates are those that apply to SFPUC electric customers on Commercial, Industrial, and Municipal Enterprise Department rate schedules only. Schedule M2 - Municipal Electric Service "GUSE", Residential, SS - Shoreside Power, and CleanPowerSF rates are not Qualifying Electric Rates for this program.			
Reservation Date	The date specified in the Reservation Notice.			
Reservation Notice	A notice provided to the Customer indicating that Modeling for Savings incentive funds have been reserved. Separate reservation amounts will be provided for the Modeling Incentive and the Energy Savings Incentive.			
SFPUC	The San Francisco Public Utilities Commission, owner and operator of the Hetch Hetchy Power System.			

Standard Design (ref. Title 24)	Under Title 24's Performance Approach, a design that meets only the minimum Title 24 requirements. The energy budget for a Proposed Design building compared to a Standard Design building is the basis for the Compliance Margin used by the Program.
Time Dependent Valuation (TDV)	TDV is the unit of annual energy use that Title 24 compliance software uses. As the name implies, TDV values energy differently depending on the time it is used. TDV energy use includes a weighting factor that makes peak-period electricity use (and savings) more important than off-peak in the Title 24 compliance process. The value assigned to energy savings through TDV more closely reflects the market for electricity, gas, propane, and other energy sources. TDV helps to better address measures, such as thermal storage or daylighting that are more effective during peak periods.
Title 24	California Code of Regulations relating to building design and construction. Part 6 of Title 24 is the Energy Efficiency Standards for Buildings. Title 24 sets minimum efficiency requirements for building construction materials and energy-consuming equipment in the State of California.

2. **General Requirements and Eligibility**

New Construction Projects that meet the following criteria are eligible to receive Financial Incentives from the Modeling for Savings program:

- The New Construction Project is non-residential and eligible for a Qualifying Electric Rate. Residential construction is not eligible. For Mixed Use New Construction Projects, only the non-residential portion may participate in the Modeling for Savings program. The non-residential portion of the New Construction Project must meet all eligibility requirements.
- The New Construction Project building size is less than 50,000 square feet, and is located at a single Customer Account service site address.
- The New Construction Project has obtained a building permit while demonstrating compliance with Title 24 requirements through the Performance Approach (using the Alternative Calculation Method) rather than through the Prescriptive Approach. I.e., Title 24 compliance is based upon a CEC approved building energy model.
- The New Construction Project must have Title 24 TDV energy use Compliance Margin that is at least 10% better than the Title 24 Standard Design allowance.
- The Customer shall have in place a fully executed Electric Service Agreement with the SFPUC for the New Construction Project. Note: Projects may enroll in the Modeling for Savings program and receive a Reservation Notice for estimated incentive funds upon applying for the project's permanent electric service. However no financial Incentives will be paid unless the electric service agreement is fully executed.
- The New Construction Project must apply to the Modeling for Savings program within 120 days of receiving its building permit. (Projects are ineligible if they have completed construction with a final signed-off building permit job card at the time of applying to the program.)
- The New Construction Project must be scheduled for completion within 48 months from the Reservation Date to receive a Modeling Incentive, and completed within 48 months from the Reservation Date to receive Energy Savings Incentives.
- The project will not receive any other incentives offered by local or state entities or
 utilities for the electric energy savings covered by the Modeling for Savings program.
 Notwithstanding the foregoing, New Construction Projects that previously enrolled in
 the statewide Savings-By-Design program for non-residential new construction may be
 eligible to participate in the Modeling for Savings program on a limited basis. See
 Special Conditions section below.

3. Program Process

Step 1: Contact the Modeling for Savings Program

- 1. If you have any questions please contact the Modeling for Savings Program staff at 415-551-4623 or email SaveEnergy@sfwater.org. The SFPUC welcomes all potential participants to consult with their Modeling for Savings representative about program rules, and to help ensure submissions are complete and acceptable.
- 2. Prior to the submission of your Application, contact Modeling for Savings to receive instructions for uploading your Application and program documentation to a secure file transfer website.

Step 2: Submit the Application

- 1. Upon obtaining your building permit, upload your Application and supporting documentation as listed in Section 7 of this Handbook to the secure file transfer website. Modeling for Savings will contact you to confirm receipt. Note: Applications must be submitted no later than 120 days after the permit date. Applicants may request assistance from the Blueprint for Savings Staff when completing the application package.
- 2. The SFPUC reviews the Application for completeness, eligibility, and conformance to program rules, and reviews the Building Permit and other required documentation. Upon the SFPUC finding that the Application is complete and acceptable, SFPUC enrolls the project in the Modeling for Savings program by issuing an Incentive Reservation Notice. The Reservation Notice indicates the Estimated Incentive Amount, comprised of both the Modeling Incentive and the estimated Energy Savings Incentive amount.
 - Note: Program enrollment is limited based on availability of funds. See Section 6.1 to learn more about funding availability.
- 3. If the SFPUC rejects the Application, it will be returned with an explanation of the cause for its rejection. The Customer may choose to correct the deficiency and resubmit the Agreement.
- 4. The Estimated Incentive Amount indicated in the Reservation Notice is reserved until paid, but no longer than 48 months from date of the Reservation Notice.
- 5. The SFPUC will pay the Modeling Incentive within 60 days either from the Reservation Date, or from the date of full execution of the Electric Service Agreement if later than the Reservation date. Payments are by check mailed to the address indicated on submitted IRS W-9 forms. Municipal department payments will be by arrangement with the SFPUC.

Step 3: Submit Notice of Project Completion

- Within 90 days from the completion of the project, and no later than 48 months from the initial Reservation Date, the Customer submits the Notice of Project Completion and the required project completion documentation as listed in Section 7 of this Handbook. The Customer submits these documents by uploading them to the secure file transfer website.
 - a. When completing the Notice of Project Completion form, the Customer may request assistance from the Modeling for Savings program staff.
 - b. Customer may request one extension of up to 90 days for the filing of the Notice of Project Completion, whereby an extension may be granted or denied by the SFPUC at its sole discretion. Failure to comply with the deadline for submitting the Notice of Project Completion may result in the cancellation of enrollment in Modeling for Savings and loss of eligibility for the Incentive payment.
 - c. The project is considered complete when the Building Permit Job Card is signed off indicating all work is completed, and all project measures are operational.
 - d. A measure is considered operational when all hardware and software has been installed and the measure's controls are functioning as specified in the Building Permit and Building Plans.

- e. The Notice of Project Completion submittal shall include all supporting documentation as listed in Section 7.2 of this Handbook.
- The SFPUC reviews the Notice of Project Completion for completeness, eligibility, and conformance to program rules, and conducts a technical review of the supporting documentation.
- 3. Modeling for Savings program staff verifies the installation of the project by review of the supporting documentation, and reserves the right to conduct on-site verification.
- 4. If the SFPUC rejects the Notice of Completion, it will be returned with a summary of the technical review findings, including an explanation of the cause for its rejection. The Customer may choose to correct the deficiency and re-submit.
- 5. If, in its review, the SFPUC finds the completed project differs in a material way with respect to the energy savings indicated in the project's Notice of Project Completion, the SFPUC will notify the Customer. SFPUC may in its sole discretion and judgment, adjust the amount of the Incentive payment to reflect revised estimated building performance. In no circumstances shall the Incentive payment exceed the maximum Estimated Incentive Amount specified in the Reservation Notice. If the project no longer meets the Program's minimum Compliance Margin, the project will not be eligible to receive the Energy Savings Incentive payment. Customer agrees to accept the SFPUC's decision as to the final amount on the Modeling for Savings Incentive.
- 6. The Energy Savings Incentive Payment will be issued within 60 days upon the SFPUC approval of the Notice of Completion.

4. Modeling and the Performance Approach

- The Modeling for Savings program requires the use of a comprehensive energy simulation tool (model) capable of hourly calculations of multiple thermal zones. The tool must be capable of modeling Title 24 compliance while satisfying ACM requirements; that is, it must be a CEC approved tool. The building energy simulation results must be used by the project and documented in its Performance Approach for Title 24 compliance, as approved and incorporated into the project's Building Permit by the local Building Department.
- For the purpose of establishing the Compliance Margin and Incentive rate, only Title 24 Measures will be considered. Non-Title 24 Measures / Exceptional Measures which are not included in approved compliance modeling cannot be used for this purpose.

5. Financial Incentives

The Modeling for Savings program offers to the Customer (1) Modeling and (2) Energy Savings incentive components. All incentive payments are subject to the availability of funds, incentive limits, and other conditions as noted in the Modeling for Savings Application terms and conditions. See Section 6.1 to learn more about funding availability and Incentive limits.

5.1. Modeling Incentive

The Modeling Incentive helps compensate the Customer for the increased costs associated with energy modeling and design. The Modeling Incentive is a fixed per project Incentive of \$4,500.

The Modeling Incentive reservation is issued to the Customer by the SFPUC upon approval of the Application Documents. The Modeling Incentive is to be paid following issuance of the Reservation Notice, or upon full execution of the Electric Service Agreement if not in place at the time of Enrollment.

5.2. Energy Savings Incentive

The Energy Savings Incentive helps compensate and reward the Customer for energy efficient building design and construction practices that promote the efficient use of energy. Energy Savings Incentives are available when the building achieves a Title 24 whole building (TDV) compliance margin equal to 10% or greater than the Title 24 standard design.

The Energy Savings reservation is issued to the Customer by the SFPUC upon approval of the Application Documents. The Energy Savings reservation amount is based upon the approved Building Permit's Title 24 Compliance Documentation's Compliance Margin, and Title 24 electric energy savings estimates. See Table 1.

The Energy Savings Incentive payment is based upon the as-constructed project, as documented in the Notice of Project Completion and related project documentation listed in Section 7. The final incentive payment is subject to verification by review of documentation, and/or on-site verification by a SFPUC representative.

The Incentive amount set forth in the Reservation Notice shall be the maximum amount of Incentives available to the project. The Customer agrees to accept the Modeling for Saving program's decision on the final amount of the Incentives.

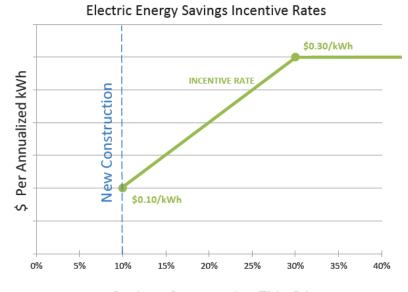
The Energy Savings Incentives to be reserved and paid are calculated according to the Title 24 Electric Energy Saving Incentive rates and Entry Levels shown in Table 1 and the noted methodologies:

Table 1: Incentive Rates, Entry Levels, and Incentive Limits

Incentive Type	Entry Levels (TDV % below Title 24, Part 6) ¹	Incentive ²	Maximum Incentive Per Project	Maximum Annual Incentive per Customer Account ³			
Incentives Paid to the Customer/Developer							
Modeling Incentive	10%	\$4,500	\$4,500	4400.000			
Energy Savings Incentive ²	10%	\$.10 - \$.30/kWh	\$35,500	\$100,000			

- 1. The Modeling for Savings program entry level minimum Compliance Margin of ten percent better than Title 24's Standard Design building is calculated using TDV for the whole building, including natural gas use.
- 2. For projects with a Compliance Margin between 10% and 30%, the kWh incentive rate varies from \$0.10 to \$0.30 in direct proportion to the Compliance Margin. For example, a project that is 20% better than Title 24, calculated using TDV energy units, would receive \$0.20 per annualized kWh of electricity savings; at 25% better than code the incentive rate would be \$0.25 per annualized kWh, etc. For Compliance Margins greater than 30% the incentive rate is capped at \$0.30 per annualized kWh of savings (See Figure 1).
 - Incentives under the Modeling for Savings program are available only for electricity savings. For natural gas incentives, contact your natural gas utility. Estimated electricity savings is the difference in annual electricity use for the Proposed Design compared to the Standard Design building, based on Table U of the CEBECCS-Com compliance report.
- 3. Subject to available Modeling for Savings program funding, the Customer Account's total of all incentive reservations in any Program Year from the Modeling for Savings Program is limited to \$100,000.

Figure 1: Electricity Savings Incentive Rates



Savings Compared to Title 24

6. Special Conditions

6.1. Funding Availability and Incentive Limits

Funding is limited and available on a first-come, first-served basis. Upon issuance of an Incentive Reservation, funding for a Customer's project will be reserved for up to four years. If Modeling for Savings Program funding is not available, no applications will be accepted.

Incentives are limited to a maximum of \$40,000, per individual project and building permit. Multiple incentive reservations on a fiscal year basis (July 1st through June 30th) for any single service site are further limited to a maximum total of \$100,000.

6.2. Savings by Design and Other Utility Energy Efficiency Programs

For projects that previously applied to participate in the statewide Savings by Design (SBD) program or other energy efficiency programs as offered by other California utilities, SFPUC, at its sole discretion, may choose to honor previously calculated electric savings incentive estimates through the Modeling for Savings program, provided:

- The Customer has submitted an Electric Service Agreement to the SFPUC.
- The Customer submits to the SFPUC for review a complete copy of the submissions, forms and agreements submitted to and received from the Savings By Design program or applicable program.
- The Customer and or Design Team have not received, or are no longer eligible to receive any Savings by Design or other program electric incentives as a result of choosing SFPUC as its electric service provider.
- The Customer agrees to those Modeling for Savings program processes, rules, and guidelines which the SFPUC finds necessary to apply to the project.

Modeling for Savings program will not unreasonably reject Savings by Design or other program findings.

6.3. Ineligible Energy Efficiency Measures:

- Renewable energy will not be considered or incorporated into the project analysis, and no renewable generation incentives are offered or provided by this program.
 Renewable generation will not be considered in the evaluation of kWh savings.
- No Energy Savings incentives are offered or provided for natural gas or other nonelectric energy source savings that might be identified through a whole building analysis. The Modeling for Savings program encourages participants to contact their natural gas provider for incentives and services at the earliest opportunity.
- No Energy Savings incentives are offered or provided for electric to gas fuel switching measures.
- Non-Title 24 Measures / Exceptional Measures, and measures that are behavioral, non-permanent, without fixed and verifiable controls, and those with unjustified baselines are ineligible.

6.4. Record-keeping and Audits:

The Customer shall establish and maintain accurate files and records of all aspects of the project and the matters funded in whole or in part with the Modeling for Savings Incentive, in a readily accessible location and condition for a period of not less than five (5) years after the final payment of the Modeling for Savings Incentive is issued.

Customer shall make available to City, its employees and authorized representatives, during regular business hours, or during such other times as the parties may mutually agree, all of the files, records, books, invoices, documents, and other data related to the project and participation in the Modeling for Savings program. The Customer shall permit City, its employees and authorized representatives to inspect, audit, examine and make excerpts and transcripts from any of the foregoing. The rights of City pursuant to this paragraph shall remain in effect for a period of not less than five (5) years after the final payment of the Modeling for Savings Incentives is issued, or as long as the Customer is required to maintain such files, records, books, invoices, documents, payrolls and other data under this Modeling for Savings program.

6.5. Electricity Service

Owner Incentives are subject to refund to the SFPUC, if through no fault of the SFPUC, the New Construction Project electric account switches to another electric provider within five years after Project completion.

6.6. Special Circumstances

Under special circumstances the SFPUC, at its sole discretion, may waive certain program rules or conditions, but any such waiver must be in writing.

7. Documentation Requirements

7.1. Format Requirements

- Documents shall follow applicable industry practice and standards.
- All Document submissions must be in electronic digital format, prepared and organized as follows:
 - First electronic file/document of each submission shall be a "Document Submission Log" with the date of submission noted. This log shall list all the documents being submitted so to record and organize all included files.
 - o All documents should be in PDF format, with the exception of necessary working files for models, and calculations.
 - o For each required submittal item listed below, submit a single individual PDF file. If necessary combine files and documents to create the single PDF file, one per each required submittal item noted below.
 - o All documents shall contain titles, versions control, and page numbers.

7.2. Submittal Requirements

When Submitting the Application

The Application is submitted following the issuance of the building permit and consists of the following submittal items:

- Document Submission Log
- Application form
- Customer's IRS W-9 form
- Building permit
- Partial set of building department approved construction documents/plans including sheets that depict the overall scope and arrangement, providing an overall description of the project, and the sheets containing NRCC forms (energy calculations) for Title 24, Part 6 energy code compliance (When legible, reduced size PDF files are preferred)

When Submitting the Notice of Project Completion

The Notice of Project Completion is submitted after the building is complete, and consists of the following submittal items:

- Document Submission Log
- Notice of Completion form
- Final signed off Building Permit Job Card indicating all work is completed
- Complete copies of the final Title 24 Compliance information package verified by the Building Department, to be provided by the builder to the Owner upon occupancy according to the Title 24 Nonresidential Compliance Manual (This package shall include all required and fully signed NRCC / NRCI / NRCA / NRCV forms).

If Requested

While the following documentation will generally not be required, the SFPUC reserves the right to request and receive the following additional submittal items:

- Complete copy of the as-constructed final and approved construction documents including incorporated NRCC forms (energy calculations) for Title 24, Part 6 energy code compliance (When legible, reduced size PDF files are preferred)
- All Title 24 forms and supportive documents required by the Building department for the project
- Complete copies of the final Title 24 Operating, and Maintenance, and Ventilation information packages to be provided by the builder to the Owner upon occupancy according to the Title 24 Nonresidential Compliance Manual
- Title 24 Compliance Energy Model. All model files should be from a program approved by the CEC. For more info, see http://www.energy.ca.gov/title24
- Title 24 Compliance Energy Model input and output files corresponding to the building systems in the approved building's construction documents.