Title 24 2013 Compliance Software: CBECC-Com

"California Building Energy Code Compliance for Commercial Buildings"

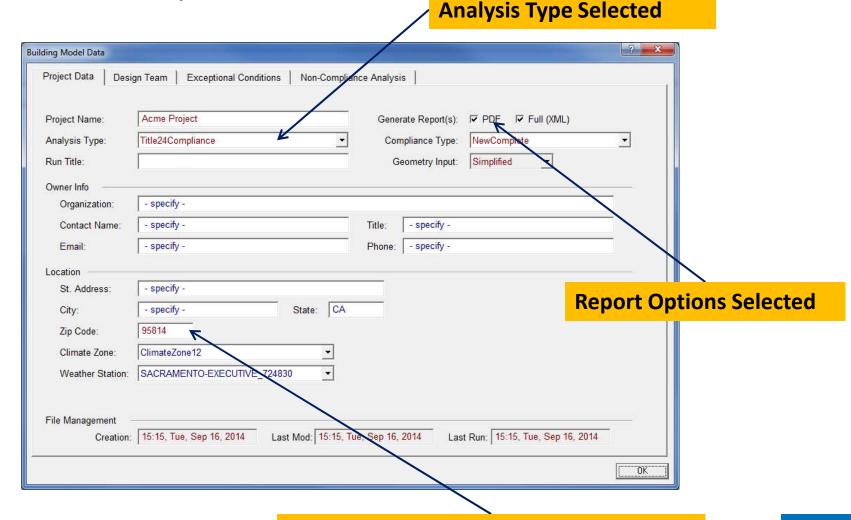
Perform Analysis – Review Results

Training Module 11

Objective: Set Analysis & Reporting Options

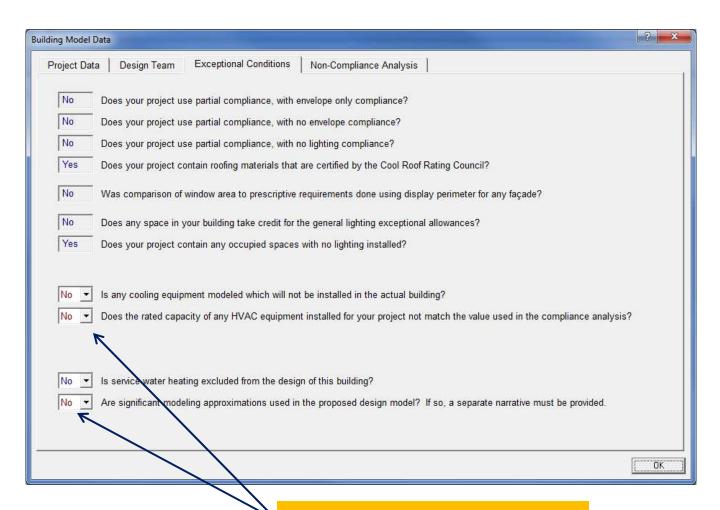
- 1. Review Analysis & Reporting Options
- 2. Perform Analysis
- 3. Results Screen / Compliance Report

Before Performing Analysis make sure the Project Data Screen has all the relevant options selected for the analysis as shown below.

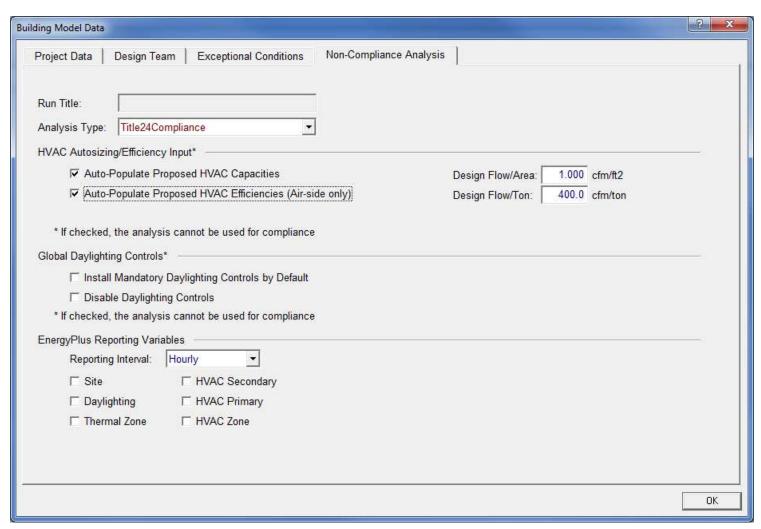


Zip Code and/or Climate Zone & Weather File Specified

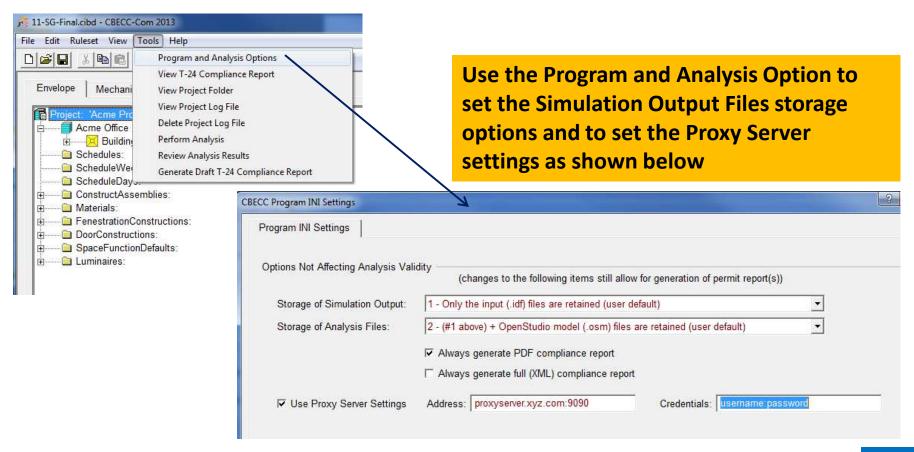
Before Performing Analysis make sure the Exception Conditions Screen has all the relevant options selected as shown below.



If user has any options selected on the Non-Compliance Analysis Screen then the Compliance Report generated after a successful analysis run will contain a watermark indicating that the report is not valid for compliance/permitting.

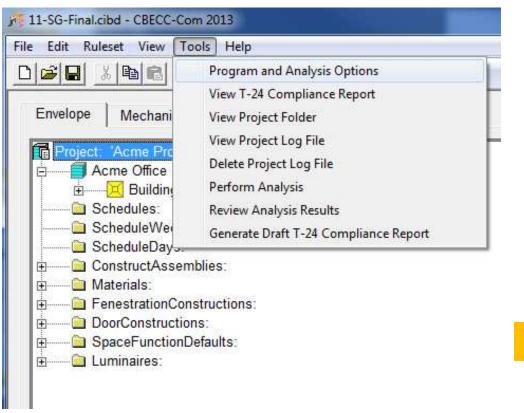


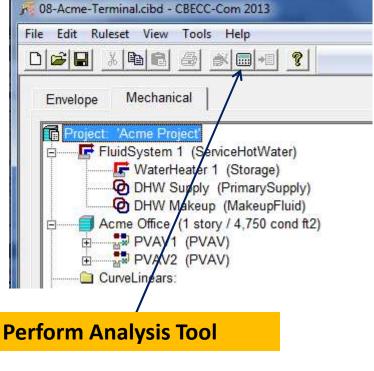
- The Tools menu contains various options relating to Analysis and Reporting as shown below
- The Compliance Report is generated only if the computer is connected to the Internet. If you are behind a firewall you would need to specify the proxy settings in the Program and Analysis Options.



Training Module 11: Perform Analysis

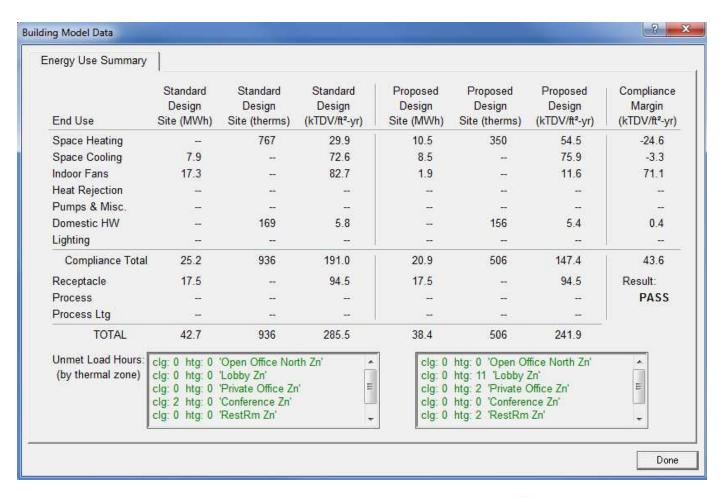
❖ To perform the compliance analysis select Tools > Perform Analysis from the menu bar or alternatively clicking on the "Perform Analysis" tool button.





Training Module 11: Results Screen

After completion of a successful simulation run a PDF of the compliance report will be generated* and a results screen will be displayed showing the Energy Use Summary of the various energy end uses for the Proposed and Standard Design case. The results screen also displays the Compliance Margin and whether the project passes compliance or not.



^{*}Note: If the computer is not connected to the internet the compliance report (PDF) will not be generated.

Training Module 11: Sample Compliance Report Front Page

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

NRCC-PRF-01-E

Project Name: Acme Project Page 1 of 6

Compliance Scope: New Complete Building including Envelope, Lighting and HVAC Input File Name:

01	Project Address	- specify -	21	Compliance Software	CBECC-Com 2013-3 (653)	
02	City	- specify -	22	Compliance Manager Version	BEMCmpMgr 2013-3 (653)	
03	Zip code	95814	23	Rule Set Filename	CA 2013 Nonresidential, Vers. 2.0 (CEC 2013 NonRes.bin)	
04	Climate Zone	ClimateZone12	24	Building Type	Nonresidential	
05	Building Front Orientation	0	25	Construction Type		
06	Number of Above Grade Stories	1	26	North Wall Area (ft2)	840	
07	Number of Below Grade Stories	0	27	East Wall Area (FT2)	900	
08	Number of Dwelling Units	0	28	South Wall Area (ft2)	840	
09	Total Conditioned Floor Area (ft2)	4,750	29	West Wall Area (ft2)	900	
10	Total Unconditioned Floor Area (ft2)	-	30	Total Exterior Wall Area (ft2)	3,480	
11	Addition Conditioned Floor Area (ft2)		31	North Glazing Area (ft2) / Glazing Ratio	2441 2370	
12	Addition Unconditioned Floor Area(ft2)		32	East Glazing Area (ft2) / Glazing Ratio	292 / 32%	
13	Number of Thermal Zones		33	South Glazing Area (ft2) / Glazing Ratio	253 / 30%	
14	Number of Thermal Zones (conditioned)	6	34	West Glazing Area (ft2) / Glazing Ratio	407 370	
15	Number of Air Systems	2	35	Total Glazing Area (ft2) /Glazing Ratio	837 / 24%	
16	Number of Zonal Systems	0	36	Roof Area (ft2)	4,750	
17	Number of Terminal Units	7	37	Skylight Area (ft2) / Skylight-Roof-Ratio	0 / 0%	
18			38			
19			39			
20			40			

Training Module 11: Compliance Report Results Summary Page

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

NRCC-PRF-01-E

Project Name: Acme Project Calculation Date/Time: Page 2 of 6

Compliance Scope: New Complete Building including Envelope, Lighting and HVAC Input File Name:

01	BUILDING COMPLIES								
02	Special Features are Required -TBD HERS Verification is Required - TBD								
03									
•	ANNUAL TDV ENERGY USE SUMMARY (kBtu/ft2/yr)								
	04	05	06	07					
Energy Component	Standard Design	Proposed Design	Compliance Margin	Percent Better than Standard*					
Space Heating	29.9	54.5	-24.6	-82.3%					
Space Cooling	72.6	75.9	-3.3	-4.5%					
Indoor Fans	82.7	11.6	71.1	86.0%					
Heat Rejection	-	-	r=	i -					
Pumps & Misc.	250	(w)	3 2.0 0	-					
Domestic Hot Water	5.8	5.4	0.4	6.9%					
Lighting	877	1976	S50						
COMPLIANCE TOTAL	191.0	147.4	43.6	22.8%					
Receptacle	94.5	94.5	-	0.0%					
Process	: -	-		-					
Process Lighting	6=			; -					
TOTAL	285.5	241.9		15.3%					