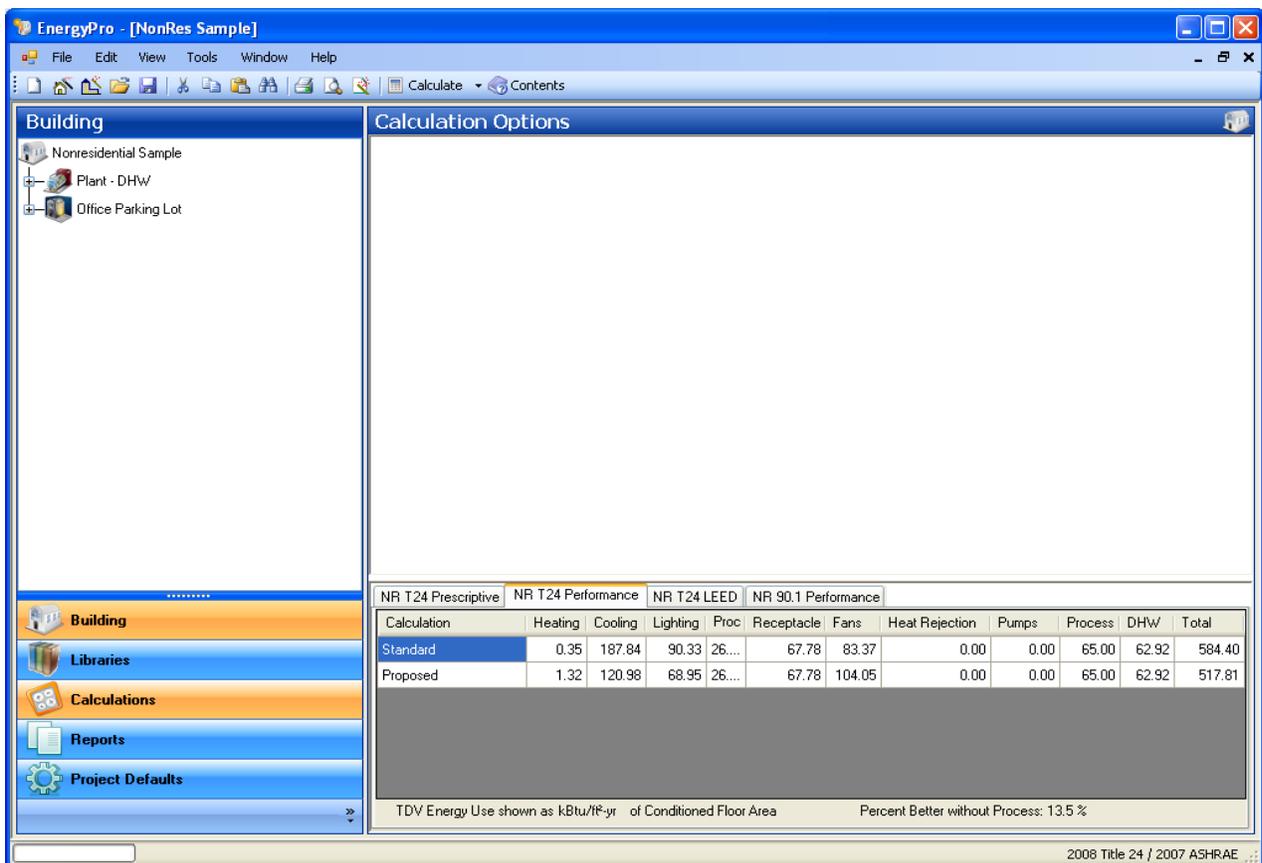


Conversion of 2008 EnergyPro to 2005 Title 24 – Performance Method

If you choose to convert from 2008 Energy Performance to the 2005 Energy Performance Method, these step-by-step instructions will explain the process.

This conversion is easy to achieve using EnergyPro 5.0 or later. The conversion takes less than a minute and requires only a couple of actions. Here are the steps for conversion.

1. Open the file under 2008 EnergyPro (Version 5):
 - a. Select the Calculations Program Component in the lower left section.



2. Check box "NR T24 Performance" ONLY

The screenshot shows the EnergyPro software interface. On the left, the 'Calculations' list includes 'NR T24 Performance' which is checked. The main window is titled 'NR T24 Performance' and has a 'Calibration' tab selected. Under 'Calculations', 'Run Standard' and 'Run Proposed' are checked. Under 'Scope', 'Envelope', 'Indoor Lighting', 'Mechanical', and 'Domestic Hot Water' are checked. Below the configuration options is a table comparing 'Standard' and 'Proposed' performance metrics.

Calculation	Heating	Cooling	Lighting	Proc	Receptacle	Fans	Heat Rejection	Pumps	Process	DHW	Total
Standard	0.35	187.84	90.33	26...	67.78	83.37	0.00	0.00	65.00	62.92	584.40
Proposed	1.32	120.98	68.95	26...	67.78	104.05	0.00	0.00	65.00	62.92	517.81

TDV Energy Use shown as kBtu/ft²-yr of Conditioned Floor Area Percent Better without Process: 13.5 %

2008 Title 24 / 2007 ASHRAE

3. From Menu Bar, Select Tools, then Options

The screenshot shows the EnergyPro software interface. The 'Tools' menu is open, and 'Options...' is selected. The 'Options' dialog is open, showing the 'Calculations' and 'Scope' sections. The 'Calculations' section has 'Run Standard' and 'Run Proposed' checked. The 'Scope' section has 'Envelope', 'Indoor Lighting', 'Mechanical', and 'Domestic Hot Water' checked. Below the dialog is a table showing energy use data for 'Standard' and 'Proposed' scenarios.

Calculation	Heating	Cooling	Lighting	Proc	Receptacle	Fans	Heat Rejection	Pumps	Process	DHW	Total
Standard	0.35	187.84	90.33	26...	67.78	83.37	0.00	0.00	65.00	62.92	584.40
Proposed	1.32	120.98	68.95	26...	67.78	104.05	0.00	0.00	65.00	62.92	517.81

TDV Energy Use shown as kBtu/ft²-yr of Conditioned Floor Area Percent Better without Process: 13.5 %

2008 Title 24 / 2007 ASHRAE

4. From Options, Select Misc. Tab, then:
 - a. Select "2005 Title 24/2004 ASHRAE"
 - b. Press the OK button

The screenshot shows the EnergyPro software interface. An 'Options' dialog box is open, with the 'Misc.' tab selected. The 'Save auto recover info every' checkbox is checked, and the interval is set to 1 minute. The 'Standards' dropdown menu is open, showing the following options: 2008 Title 24 / 2007 ASHRAE, 2001 Title 24 / 2004 ASHRAE, 2005 Title 24 / 2004 ASHRAE (selected), and 2008 Title 24 / 2007 ASHRAE. The background shows the 'NR T24 Performance' window with a table of energy use data.

Calculation	Heating	Cooling	Lighting	Proc	Receptacle	Fans	Heat Rejection	Pumps	Process	DHW	Total
Standard	0.35	187.84	90.33	26...	67.78	83.37	0.00	0.00	65.00	62.92	584.40
Proposed	1.32	120.98	68.95	26...	67.78	104.05	0.00	0.00	65.00	62.92	517.81

TDV Energy Use shown as kBtu/ft²-yr of Conditioned Floor Area Percent Better without Process: 13.5 %

2008 Title 24 / 2007 ASHRAE

4. Press the Calculator Icon to calculate 2005 NR T24 Performance

The screenshot shows the EnergyPro software interface. The 'Calculations' panel on the left has 'NR T24 Performance' selected. The main window displays 'NR T24 Performance' with 'Options' and 'Calibration' tabs. Under 'Calculations', 'Run Standard' and 'Run Proposed' are checked. Under 'Scope', 'Envelope', 'Indoor Lighting', 'Mechanical', and 'Domestic Hot Water' are checked. Below the options is a table for 'NR T24 Performance' comparing 'Standard' and 'Proposed' scenarios across various energy use categories. At the bottom right, a yellow circle highlights the text 'Percent Better without Loss: 18.4 %'.

Calculation	Heating	Cooling	Lighting	Procr	Receptacle	Fans	Heat Rejection	Pumps	Process	DHW	Total
Standard	0.52	167.55	95.51	24....	64.25	82.57	0.00	0.00	61.40	41.62	538.42
Proposed	0.86	99.57	64.91	24....	64.25	97.85	0.00	0.00	61.40	41.62	455.44

- 5. Confirmation of conversion is shown in the bottom left corner.
- 6. New energy savings will most likely will be greater than under the 2008 Energy Code. In this example, the 2008 savings were 13.5% and 2005 savings are 18.4%.

7. PDF Report will confirm savings – same as on EnergyPro calculator for 2005 Performance.

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PERFORMANCE CERTIFICATE OF COMPLIANCE (Part 2 of 3)			PERF-1C
Project Name <i>Building Official Version for Plan Checking Use Only.</i>			Date 2/10/2010
ANNUAL TDV ENERGY USE SUMMARY (kBtu/sqft-yr)			
Energy Component	Standard Design	Proposed Design	Compliance Margin
Space Heating	0.52	0.86	-0.34
Space Cooling	167.55	99.57	67.98
Indoor Fans	82.57	97.85	-15.27
Heat Rejection	0.00	0.00	0.00
Pumps & Misc.	0.00	0.00	0.00
Domestic Hot Water	41.62	41.62	0.00
Lighting	95.51	64.91	30.61
Receptacle	64.25	64.25	0.00
Process	61.40	61.40	0.00
Process Lighting	24.99	24.99	82.98
TOTALS	538.42	455.44	
Percent better than Standard		15.4 %	(18.4 % excluding process)
BUILDING COMPLIES			
GENERAL INFORMATION			
Building Orientation	(N) 0 deg	Conditioned Floor Area	4,480 sqft.
Number of Stories	2	Unconditioned Floor Area	800 sqft.
Number of Systems	3	Conditioned Footprint Area	2,880 sqft.
Number of Zones	4	Natural Gas Available On Site	Natural Gas

8. Please note that the EnergyPro report shows EnergyPro 5.0 or later, but DSA will confirm the results with the EnergyPro input file, *.bld.

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Number of Stories	2	Unconditioned Floor Area	900	sqft.
Number of Systems	3	Conditioned Footprint Area	2,880	sqft.
Number of Zones	4	Natural Gas Available On Site	Natural Gas	

	Orientation	Gross Area		Glazing Area		Glazing Ratio
Front Elevation	(N)	800	sqft.	320	sqft.	40.0 %
Left Elevation	(E)	1,040	sqft.	320	sqft.	30.8 %
Rear Elevation	(S)	1,900	sqft.	260	sqft.	13.7 %
Right Elevation	(W)	720	sqft.	0	sqft.	0.0 %
Total		4,460	sqft.	900	sqft.	20.2 %
Roof		2,880	sqft.	0	sqft.	0.0 %

	Standard		Proposed	
Lighting Power Density	1.314	W/sqft.	0.928	W/sqft.
Prescriptive Envelope TDV Energy	170,135		167,237	

Remarks:
Standard Building (Compliance)

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