

# Design & Build for Energy Efficiency: Multifamily New Construction Best Practices Guide

Request Form for Wisconsin Firms\*: To receive a copy of the guide, please complete the following.

Name: \_\_\_\_\_ Company: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

Email: \_\_\_\_\_ Phone: \_\_\_\_\_

- Which of the following best describes your role in multifamily projects:**  
 Architect     Developer     General Contractor     Building owner     Engineer     Other: \_\_\_\_\_
- About how many multifamily projects (buildings with 4 or more units) are you involved in each year?**  
 0-2     3-6     7-10     More than 10
- In the last 5 years, what percentage of your projects have had central HVAC systems rather than individual systems?**  
 0-25%     26-50%     51-75%     76-100%     Don't know
- In the last 5 years, how often did you install each of the following features in your multifamily projects?**

Building system type	Technology	Rarely (Less than 25% of projects)	Occasionally (About 25% to 50% of projects)	Frequently (About 50% to 75% of projects)	Always (More than 75% of projects)
<b>All Buildings</b>	In-unit fluorescent lighting (50% or more of the fixtures)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Common area fluorescent lighting (50% or more of the fixtures)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Occupancy controls in garage, stairwell, or other common areas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	ENERGY STAR® appliances	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Central System Buildings</b>	Sealed combustion condensing and modulating boiler system (AFUE 92%+)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	High efficiency central hot water system (AFUE 90%+)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Solar domestic hot water system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	High efficiency water source heat pumps with a SEER of 14.1/COP of 4.6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	High efficiency chiller with a sealed combustion condensing modulating boiler	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Ground source heat pump system with high efficiency heat pumps with an EER of 14.1/COP of 4.6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Hire a third party commissioning agent (not a member of the project team)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Individual Systems</b>	High efficiency hot water heaters (AFUE 90%+) in each unit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	ENERGY STAR air conditioning (14 SEER, 11.5 EER or better) for each unit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	High efficiency furnaces (AFUE 90%+) for each unit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

\* Out of state firms need to complete the Publication Request Form.

**Send to:**

Focus on Energy  
 Apartment & Condo Efficiency Services  
 431 Charmany Drive, Madison, WI 53719  
 Fax: 608.249.0339



**5. Thinking about your most recently completed multifamily project, did you recommend and/or install any of the following features? Please check the features you recommended and/or were installed.**

Building system type	Technology	Did you recommend feature?	Was feature installed?
<b>All Buildings</b>	In-unit fluorescent lighting (50% or more of the fixtures)	<input type="checkbox"/>	<input type="checkbox"/>
	Common area fluorescent lighting (50% or more of the fixtures)	<input type="checkbox"/>	<input type="checkbox"/>
	Occupancy controls in garage, stairwell, or other common areas	<input type="checkbox"/>	<input type="checkbox"/>
	ENERGY STAR® appliances	<input type="checkbox"/>	<input type="checkbox"/>
<b>Central System Buildings</b>	Sealed combustion condensing and modulating boiler system (AFUE 92%+)	<input type="checkbox"/>	<input type="checkbox"/>
	High efficiency central hot water system (AFUE 90%+)	<input type="checkbox"/>	<input type="checkbox"/>
	Solar domestic hot water system	<input type="checkbox"/>	<input type="checkbox"/>
	High efficiency water source heat pumps with a SEER of 14.1/COP of 4.6	<input type="checkbox"/>	<input type="checkbox"/>
	High efficiency chiller with a sealed combustion condensing modulating boiler	<input type="checkbox"/>	<input type="checkbox"/>
	Ground source heat pump system with high efficiency heat pumps with an EER of 14.1/COP of 4.6	<input type="checkbox"/>	<input type="checkbox"/>
	Hire a third party commissioning agent (not a member of the project team)	<input type="checkbox"/>	<input type="checkbox"/>
<b>Individual Systems</b>	High efficiency hot water heaters (AFUE 90%+) in each unit	<input type="checkbox"/>	<input type="checkbox"/>
	ENERGY STAR air conditioning (14 SEER, 11.5 EER or better) for each unit	<input type="checkbox"/>	<input type="checkbox"/>
	High efficiency furnaces (AFUE 90%+) for each unit	<input type="checkbox"/>	<input type="checkbox"/>

**6. If there are features that you recommended, but were not installed, how important were each of the following reasons in those decisions to not install the feature?**

	Not important	A little bit important	Very important
Feature too expensive	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Technology unreliable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Could not find qualified installers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Decision makers not familiar with technology	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**7. Has your firm ever received project-specific recommendations for a new construction project from the Focus on Energy Apartment & Condo Efficiency Services team?**

Yes, for the first time within the last year     Yes, more than a year ago     No     Not sure