



The Advanced Lighting Package



Learn more at energystar.gov

ENERGY STAR Advanced Lighting Package (ALP)



- Lighting packages that consist of a **minimum of 60% ENERGY STAR qualified hard-wired fixtures**
 - In addition to the light fixture requirements, all installed ceiling fans (*with or without lighting kits*) must be ENERGY STAR qualified
 - ENERGY STAR qualified ceiling fan light kits (not just the fan) can be counted toward the ALP 60% requirement

Advanced Lighting Package Home-Buyer Benefits



- Selection
- Improved quality
- Reduced maintenance
- Enhanced comfort
- Energy cost savings
- Environmental protection

“What really convinced me, and what means the most to my clients is that the ENERGY STAR qualified fixtures are beautiful – I am ‘wowed’ by the design of the fixtures.”

*–Gary Brooks, Brooks Design Construction,
Gainesville, FL*



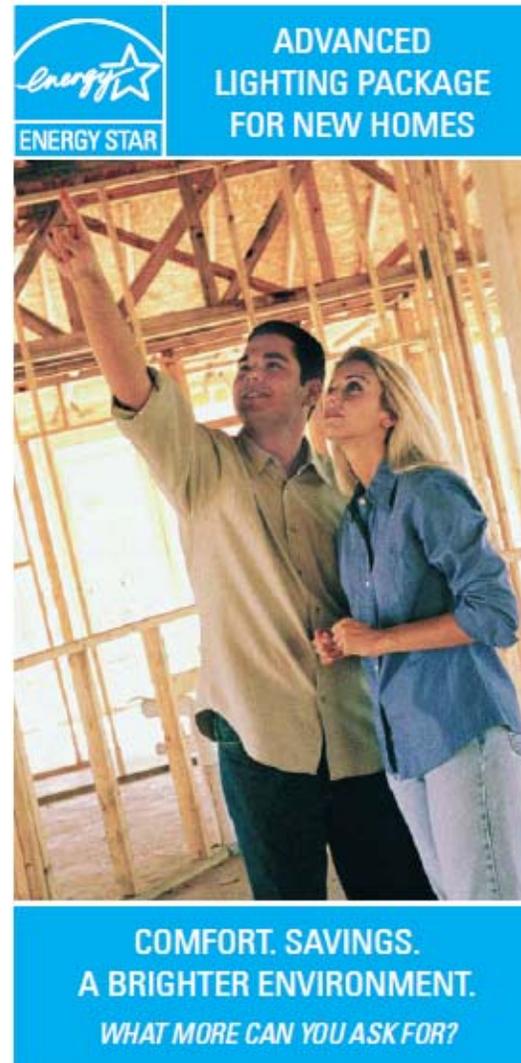
Consumer Marketing Materials



Advanced Lighting Package Consumer Brochure

Educates customers on the key benefits

- Quality
- Performance (lower maintenance)
- Environmental protection



BEAUTIFY THE ENVIRONMENT
INSIDE AND OUTSIDE YOUR
HOME WITH ENERGY STAR
QUALIFIED LIGHTING.

Supply-Side Marketing Tools



Advanced Lighting Package Savings Look-up Tool

Demonstrates to customers the potential energy bill savings that could be realized if a standard lighting housepack is replaced with varying numbers of fixtures (between 6 and 22) that have earned the ENERGY STAR

 ENERGY STAR® a U.S. Environmental Protection Agency program, helps us all save money and protect our environment through energy efficient products and practices. For more information, visit www.energystar.gov						
ENERGY STAR® Advanced Lighting Package (ALP) Energy Bill Savings Chart						
<small>This table illustrates the potential annual energy bill and bulb replacement savings that could be realized by using fixtures that earned the ENERGY STAR in your home. ENERGY STAR qualified lighting provides bright, warm light similar to incandescent while requiring less energy, generating less heat, and use bulbs lasting up to 10 times longer.</small>						
Electricity price per kilowatt-hour	Fixture quantity	Total annual electricity and bulb replacement savings	Increase to home sales price	Total annual mortgage increase	Net annual electricity and bulb replacement savings	Net savings over bulb life (approximately 9 years)
\$0.12	40	\$787	\$500	\$37	\$730	\$5,888
	36	\$690	\$450	\$33	\$657	\$5,299
	32	\$614	\$400	\$30	\$584	\$4,710
	28	\$537	\$350	\$26	\$511	\$4,121
	24	\$480	\$300	\$22	\$438	\$3,533
	20	\$384	\$250	\$18	\$365	\$2,944
	16	\$307	\$200	\$15	\$292	\$2,355
	12	\$230	\$150	\$11	\$219	\$1,766
	8	\$153	\$100	\$7	\$146	\$1,178

The Advanced Lighting Package Defined:
 + A comprehensive set of ENERGY STAR qualified light fixtures and ceiling fans.
 + Must consist of a minimum of 60% ENERGY STAR qualified hard-wired fixtures—indoor and/or outdoor.
 + All ceiling fans must be ENERGY STAR qualified.

ENERGY STAR QUALIFIED LIGHTING USES 75% LESS ENERGY THAN STANDARD LIGHTING AND LASTS UP TO 10 TIMES LONGER



Advanced Lighting Package Builder Benefits



- Increased revenue
- Market differentiation
- Design flexibility and fixture aesthetics
- Enhanced customer satisfaction



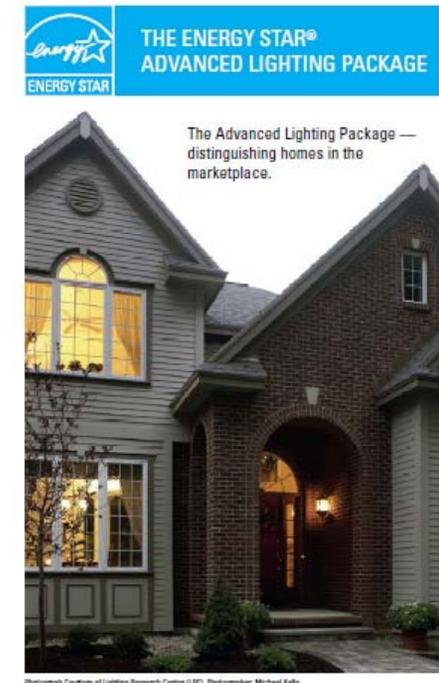
“Using the Advanced Lighting Package is the right thing to do for our customers, the environment, and our business.”

–Rich Coyle, D.R. Horton, Sacramento Division

Supply-Side Marketing Materials



Advanced Lighting Package Builder Brochure
Describes the ENERGY STAR Advanced Lighting Package, the benefits to the builder for participating in the program, and the added value the builder can provide their customers



Advanced Lighting Package Builder Case Studies

Feature success stories of builders who have used the Advanced Lighting Package to better their business



Advanced Lighting Package Declaration for Builders



This Bennett Homes House features the ENERGY STAR® Advanced Lighting Package



This Bennett Homes house features the ENERGY STAR Advanced Lighting Package, which means that more than 60% of the light fixtures and all of the ceiling fans are ENERGY STAR qualified.

The benefits of the ENERGY STAR Advanced Lighting Package at 21 Green St., Efficiency, WA 00000, include:

- Savings of more than \$131 per year in energy costs compared to an equivalent all-incandescent lighting package.*
- ENERGY STAR qualified fixtures use approximately 75% less energy than standard incandescent fixtures.
- ENERGY STAR qualified light fixtures generate about 75% less heat, reducing expensive home cooling needs and keeping you more comfortable.
- Light bulbs in ENERGY STAR qualified light fixtures last about ten times longer than standard incandescent bulbs. This means fewer bulb changes in hard to reach places.
- ENERGY STAR qualified light fixtures carry two-year warranties—twice the industry average.



With an ENERGY STAR Advanced Lighting Package, 6 out of 10 light fixtures and all ceiling fans are ENERGY STAR qualified, using less energy, saving you money and keeping your family more comfortable.

By including the ENERGY STAR Advanced Lighting Package, Bennett Homes helps reduce greenhouse gas emissions and saves customers money on their utility bills.

*The Advanced Lighting Package consists of 18 ENERGY STAR qualified fixtures. Savings estimates assume fixtures operating for 3 hours per day, at the local rate of \$0.08 per kilowatt-hour. All savings assumptions are available upon request. Packages declared by third parties, but not verified by US EPA.

Products that earn the ENERGY STAR® prevent greenhouse gas emissions by meeting strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and the U.S. Department of Energy. www.energystar.gov



- Designed to be provided to every homeowner to show the savings they are achieving by having the Advanced Lighting Package installed
- Provides a tangible record of the home's energy savings due to the Advanced Lighting Package
- Can be included in the welcome packet of documentation at each home's closing
- Also can be posted as information in each model home

Customized per home address

This Bennett Homes House features the ENERGY STAR® Advanced Lighting Package



Customized for each builder

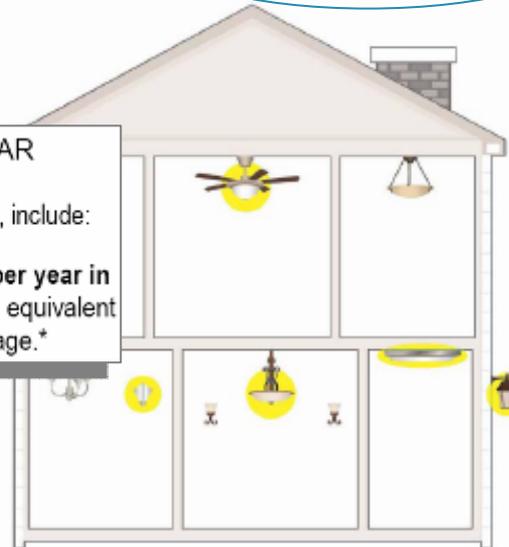
Includes local utility logo (if desired)

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Savings Customized per the utility rate and fixtures installed at the home address

*This Advanced Lighting Package consists of 18 ENERGY STAR qualified fixtures. Savings estimate assumes fixtures operating for 3 hours per day, at the local rate of \$0.08 per kilowatt-hour. All savings assumptions are available upon request. Packages declared by third parties, but not verified by US EPA.

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ENERGY STAR Advanced Lighting Package Tools



*** Savings Calculator**
Customizable by
Floor plan



Successful Utility Program Strategies



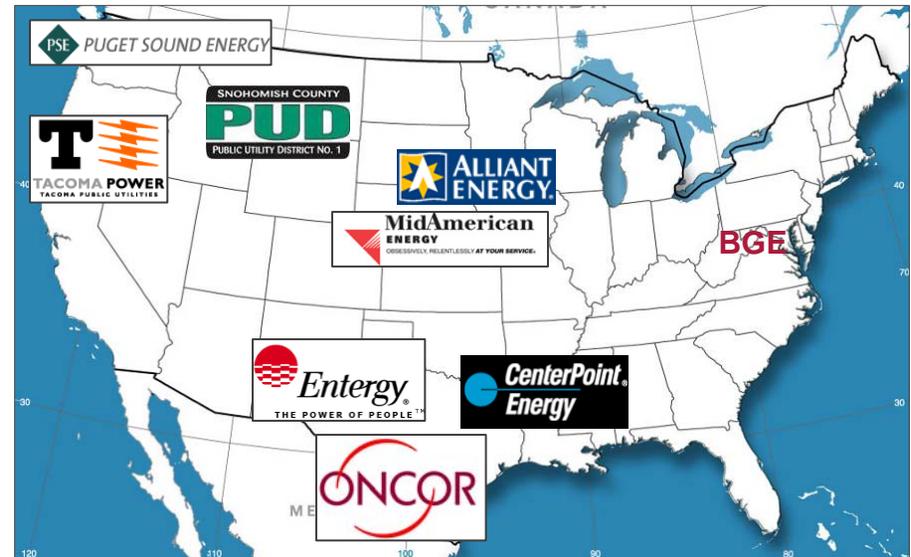
- Supply-side education
 - For lighting suppliers
 - For builders
- Incentives
 - Supplier incentives
 - Builder incentives
 - Consumer incentives
- Homebuyer education/marketing
 - Marketing
 - Showroom/retail/model home displays
 - Media events



Utilities Offering Advanced Lighting Package Incentives



- CenterPoint: \$200/home
- Entergy: \$100/home
- Oncor: \$50/home
- Tacoma Power: \$150/home
- Puget Sound Energy: \$100/home
- MidAmerican: up to \$200/home
- Alliant: \$250/home
- BGE: \$325 - \$525/home



Program Results: Tacoma Power



- 90-home pilot with Tacoma Housing Authority
- 100% of fixtures are ENERGY STAR qualified
- 899 ENERGY STAR fixtures installed
- ~2 sockets/fixture
- Annual savings of 90,000 kWh
- Pilot began Jan 2008

Example: D.R. Horton and Advanced Lighting Package



“We haven’t had to ‘sell’ the ENERGY STAR qualified light fixtures to customers, the lights sell themselves! The fixtures are very attractive and the lighting quality is very good.”

— *Rich Coyle, D.R. Horton (parent company of Cambridge Homes)*

 CHANGE FOR THE BETTER WITH ENERGY STAR

Products that earn the ENERGY STAR® prevent greenhouse emissions by meeting strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and the U.S. Department of Energy.
www.energystar.gov

CASE STUDY: D.R. Horton Stays Ahead of the Competition with ENERGY STAR®

For D.R. Horton, entering the extremely competitive Sacramento, California market was challenging at first. But the national builder found quick success through a simple strategy: build the most energy efficient homes in the area to differentiate from the competition. Rich Coyle, the division purchasing director, accomplished this by partnering with ENERGY STAR to include value added features like the ENERGY STAR Advanced Lighting Package (ALP).

D.R. Horton was able to quickly attract interested home buyers to its newest development, Sierra Valley Oaks, by offering new home buyers an “environmentally friendly” package including the ENERGY STAR ALP as a standard feature in all homes. Coyle comments that buyers “immediately recognize ENERGY STAR,” and choose D.R. Horton homes for their ENERGY STAR features that lead to both energy savings and environmental protection.

“Using the Advanced Lighting Package is the right thing to do for our customers, the environment, and our business.”
—Rich Coyle, D.R. Horton Sacramento, CA Division

D.R. Horton promotes the ENERGY STAR Advanced Lighting Package because of increased profitability, quick home sales, environmental protection, staying ahead of the competition, and their commitment to high quality products.

The Bottom Line Advantage

According to Coyle, the ENERGY STAR Advanced Lighting Package has had a positive effect on the sales of the Sierra Valley Oaks community. “We haven’t had to ‘sell’



Sierra Valley Oaks at a Glance

Price Range: \$480,000 to \$580,000

Description: 71 homes, 2,190 to 3,300 square feet

Lighting: 100% ENERGY STAR qualified fixtures standard in every home. Three ENERGY STAR qualified “Luxury” lighting upgrade packages.

the ENERGY STAR lighting to customers, the lights sell themselves!” remarks Coyle. “The fixtures are very attractive and the lighting quality is very good. Using the Advanced Lighting Package is the right thing to do for our customers, the environment, and our business. You can do the right thing and make a profit.” Within three weeks of opening the model homes, 100 percent of the phase-one houses were sold. In the second month, all phase two homes also sold pre-construction.

Not only does D.R. Horton offer a 100 percent ENERGY STAR qualified fixtures as standard in every home, Coyle is happy to report that they also offer three “luxury” ENERGY STAR qualified upgrade options. The standard package features polished brass fixtures, while the “luxury” upgrades offer fixture packages from the Serenity or Brandywine families, all manufactured by Sea Gull Lighting. All Sierra Valley Oaks homebuyers visit D.R. Horton’s design center to select their lighting fixtures. The new homeowners are so pleased with the ENERGY

 EPA
United States Environmental Protection Agency

Example: Lennar Homes and Advanced Lighting Package



- Advanced Lighting Package-equipped homes closed:
 - 821 in 2006
 - 757 in 2007
- ~ 63,000 qualified fixtures
- ~ 3,600 kWh and \$600+ saved annually/home
- 5.6M kWh load permanently avoided

For more information:



- www.energystar.gov/alp
- Gwen Dobbs
 - gdobbs@icfi.com



Indoor airPLUS



METHOD TO INDOOR AIR PLUS MADNESS

Why:

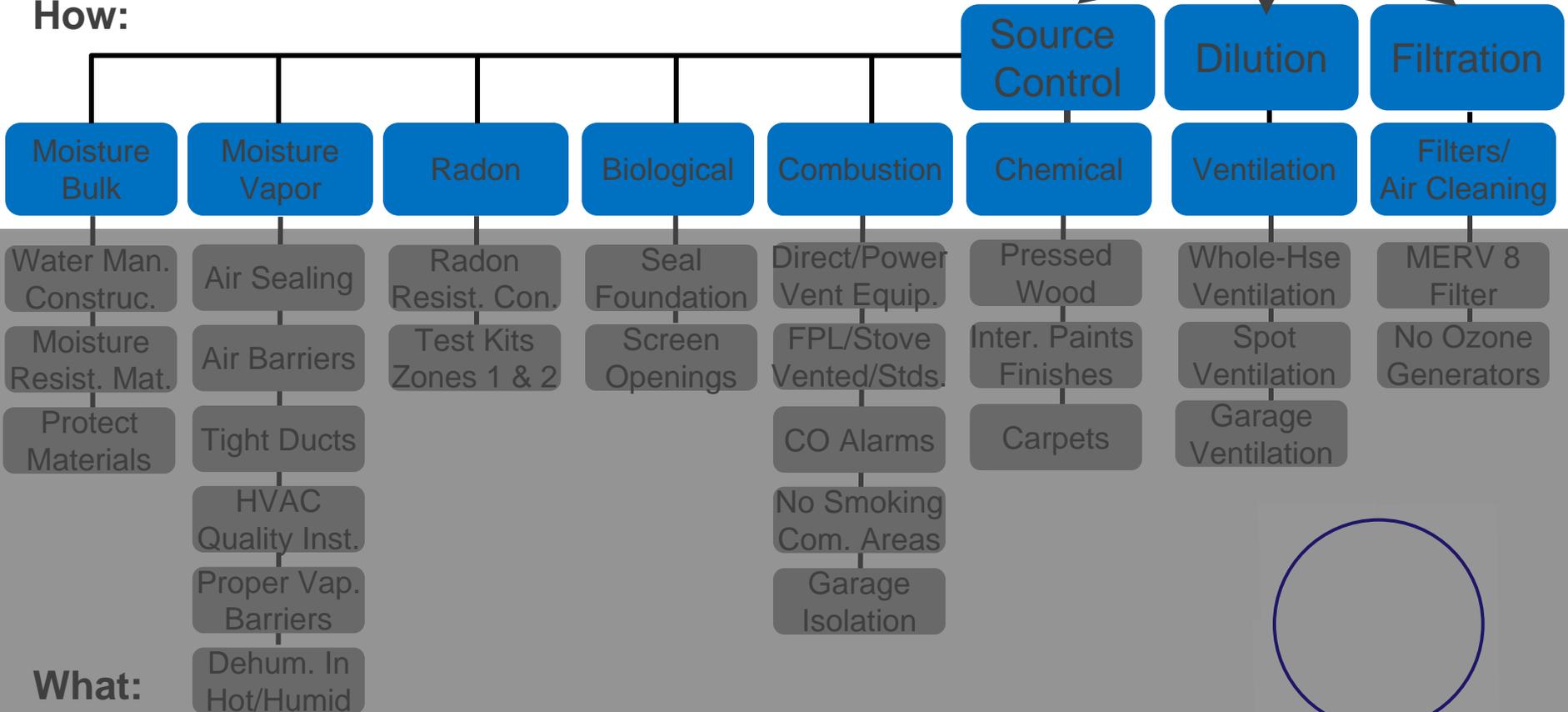
< Risk of IAQ Problems
Trivial Extra Cost



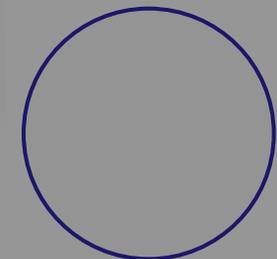
< Risk
> Customer Satisfaction
> Differentiation



How:



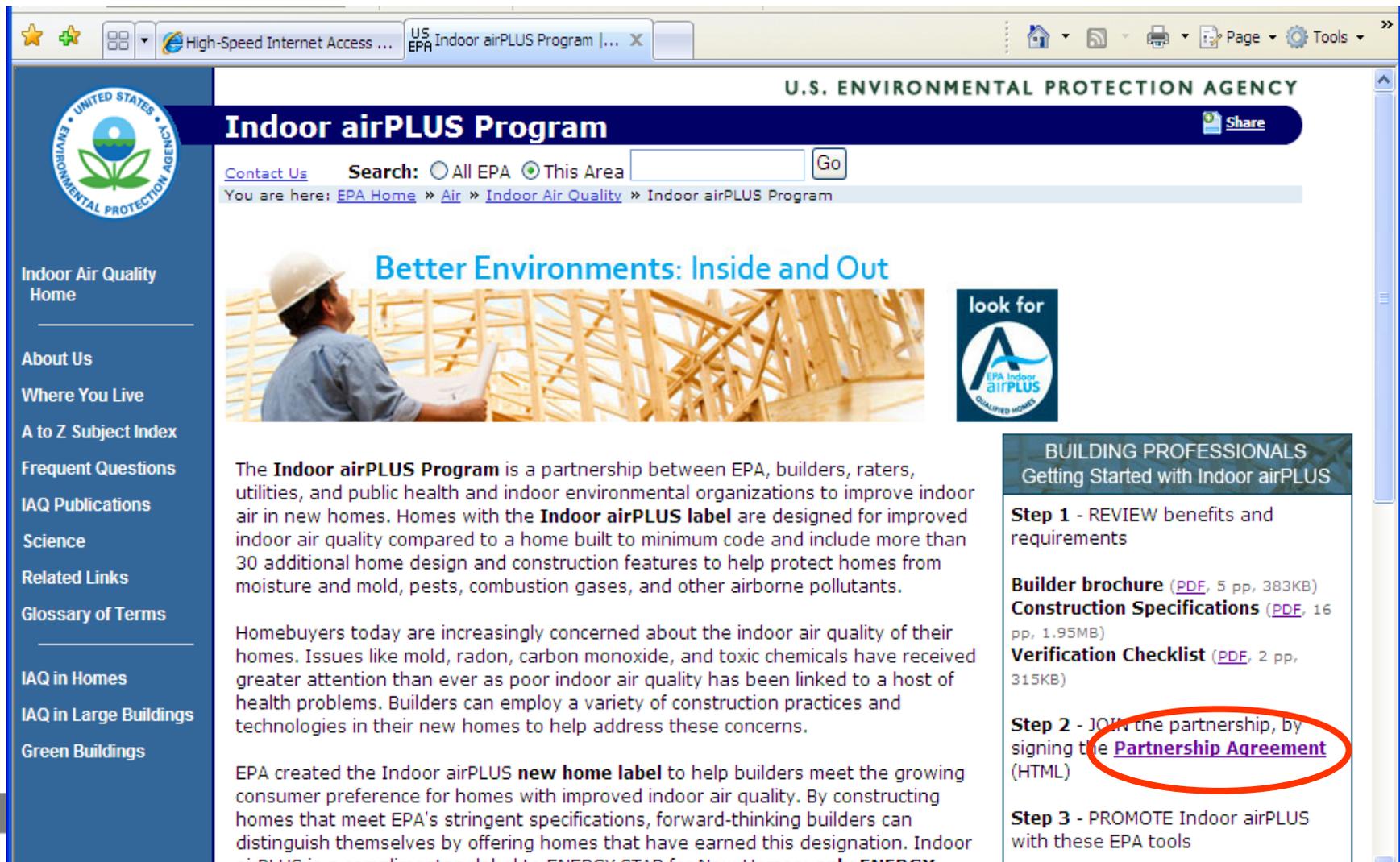
What:



How to Partner with IAP



1. Program Education



The screenshot shows the EPA Indoor airPLUS Program website. The browser address bar indicates the URL is "US EPA Indoor airPLUS Program |...". The page header includes the EPA logo and the text "U.S. ENVIRONMENTAL PROTECTION AGENCY". The main heading is "Indoor airPLUS Program". Below this, there is a search bar and a navigation breadcrumb: "You are here: EPA Home » Air » Indoor Air Quality » Indoor airPLUS Program". The main content area features a large image of a construction worker in a hard hat looking at blueprints, with the text "Better Environments: Inside and Out" overlaid. To the right of the image is a "look for" button with the EPA Indoor airPLUS logo. Below the image, the text reads: "The **Indoor airPLUS Program** is a partnership between EPA, builders, raters, utilities, and public health and indoor environmental organizations to improve indoor air in new homes. Homes with the **Indoor airPLUS label** are designed for improved indoor air quality compared to a home built to minimum code and include more than 30 additional home design and construction features to help protect homes from moisture and mold, pests, combustion gases, and other airborne pollutants. Homebuyers today are increasingly concerned about the indoor air quality of their homes. Issues like mold, radon, carbon monoxide, and toxic chemicals have received greater attention than ever as poor indoor air quality has been linked to a host of health problems. Builders can employ a variety of construction practices and technologies in their new homes to help address these concerns. EPA created the Indoor airPLUS **new home label** to help builders meet the growing consumer preference for homes with improved indoor air quality. By constructing homes that meet EPA's stringent specifications, forward-thinking builders can distinguish themselves by offering homes that have earned this designation. Indoor airPLUS is a complimentary label to ENERGY STAR for New Homes; only ENERGY STAR qualified homes can also be Indoor airPLUS qualified homes."

On the right side of the page, there is a section titled "BUILDING PROFESSIONALS Getting Started with Indoor airPLUS". It lists three steps:

- Step 1 - REVIEW** benefits and requirements
 - Builder brochure** ([PDF](#), 5 pp, 383KB)
 - Construction Specifications** ([PDF](#), 16 pp, 1.95MB)
 - Verification Checklist** ([PDF](#), 2 pp, 315KB)
- Step 2 - JOIN** the partnership, by signing the **Partnership Agreement** (HTML)
- Step 3 - PROMOTE** Indoor airPLUS with these EPA tools

The "Partnership Agreement" link in Step 2 is circled in red in the original image.

On the left side of the page, there is a navigation menu with the following items:

- Indoor Air Quality Home
- About Us
- Where You Live
- A to Z Subject Index
- Frequent Questions
- IAQ Publications
- Science
- Related Links
- Glossary of Terms
- IAQ in Homes
- IAQ in Large Buildings
- Green Buildings

How to Partner with IAP



2. Partner with EPA

Sign the Partnership Agreement at: epa.gov/indoorairplus

A screenshot of the EPA Indoor airPLUS Partnership Agreement form, displayed in a Microsoft Internet Explorer browser window. The browser's address bar shows the URL "http://www.epa.gov/indoorairplus/test/form.html". The page title is "Partnership Agreement Form | Indoor airPLUS Program | US EPA". The form is divided into several sections. On the left, there is a navigation menu with links such as "Indoor airPLUS Program Home", "About Us", "Where You Live", "A to Z Subject Index", "Frequent Questions", "IAQ Publications", "Science", "Related Links", "Glossary of Terms", "IAQ in Homes", "IAQ in Large Buildings", and "Green Buildings". The main content area features the EPA logo, the "Indoor airPLUS Program" heading, and a search bar. Below this, there is a section titled "Better Environments: In" with a photo of a construction worker. The text explains that becoming an Indoor airPLUS partner is easy and that there is no cost to partner with EPA. The "Indoor airPLUS Partnership Agreement" section includes a form for "Organization Name", "Organization Type (check one)" with radio buttons for "Home Builder" and "Home Verification Organization", and a "Contact Email and Phone" section with input fields for "Phone" and "Email". The "Street Address" section has input fields for "Address 1", "City", "State", and "Zip". There are two checkboxes under "Check those boxes that apply:" with associated text. The "Partnership Agreements & Terms for:" section lists three categories: "Home Builders", "Home Energy Raters/Providers", and "Other Program Allies", each with a "click to expand" link. At the bottom, there is a checkbox for "As an authorized representative of the partner organization..." and a "Sign Partnership Agreement" button, which is circled in red.

How to Partner with IAP



3. Promote the Program to Builders



Breathe Easier Inside and Out with a New Home from (BUILDER)

Look for EPA's Indoor airPLUS label next to the ENERGY STAR® on your new home. Special features reduce indoor air pollutants to protect your indoor environment. Energy-efficient features reduce global warming to protect the outdoor environment. For more information, visit www.builder.com.

BUILDER NAME
www.builder.com

ask about
EPA Indoor airPLUS

All EPA Indoor airPLUS qualified homes offer superior indoor air quality and meet strict energy efficiency guidelines set by EPA's ENERGY STAR program.

ask about
EPA Indoor airPLUS

DRAFT
A Indoor Air Plus
r New Homes



How to Partner with IAP

4. Build, Verify and Label Qualified Homes

1. Inspect



Guidance for Completing the EPA Indoor airPLUS Verification Checklist:

1. Only ENERGY STAR Qualified Homes verified to comply with these specifications can earn the "EPA Indoor airPLUS" label. See EPA Indoor airPLUS Construction Specifications for full description of requirements, terms, exceptions, abbreviations, references, and climate map used in this checklist. Verification is not complete until this checklist is completed in full and signed.
2. Check one box per line: "N/A", "Builder Verified", or "Rater Verified". "N/A" applies to specifications that do not apply for specific conditions (e.g., climate) according to Exceptions described in the EPA Indoor airPLUS Construction Specifications. Check either "Builder Verified" or "Rater Verified" for all other items. Builder must sign the verification checklist if any items are checked in the "Builder Verified" column, and by so doing accepts full responsibility for verifying that those items have met EPA Indoor airPLUS requirements.
3. When using Performance Alternatives (see 4.2 & 4.4), check tested box and include testing documentation in HERS/BOP file.
4. Builder provides one copy of the completed/signer checklist to homeowners. Provider or Rater files a copy with HERS/BOP and ENERGY STAR documentation (i.e., Thermal Bypass Checklist) for the home.
5. The Checklist may be completed for a batch of homes using a RESNET-approved sampling protocol when qualifying homes as ENERGY STAR. For example, if the approved sampling protocol requires rating one in seven homes, then the checklist will be completed for the one home that was rated.

Note: The EPA Indoor airPLUS Construction Specifications are designed to contribute to improved indoor air quality (IAQ) in new homes compared with code-built homes. However, these measures alone cannot prevent all IAQ problems. Rather, EPA Indoor airPLUS is a way to reduce the likelihood of experiencing IAQ problems. Occupant behavior is also important for IAQ. For example, products used in the home after occupancy and smoking inside may both negatively impact the home's IAQ and the performance of the specified EPA Indoor airPLUS measures.

Comments:

For more information, visit epa.gov/indoorairplus



Qualified homes earn the EPA Indoor airPLUS label. Place it next to the ENERGY STAR label.



An EPA Indoor airPLUS qualified home must still continue to meet ENERGY STAR's minimum energy efficiency and by ENERGY STAR, the nationally recognized symbol for energy efficiency.

2. Sign Here

3. Label Here





Marketing Resources

ENERGY STAR Partner Locator



Denotes home builders or developers also offering the EPA Indoor airPLUS.



IAP Logos



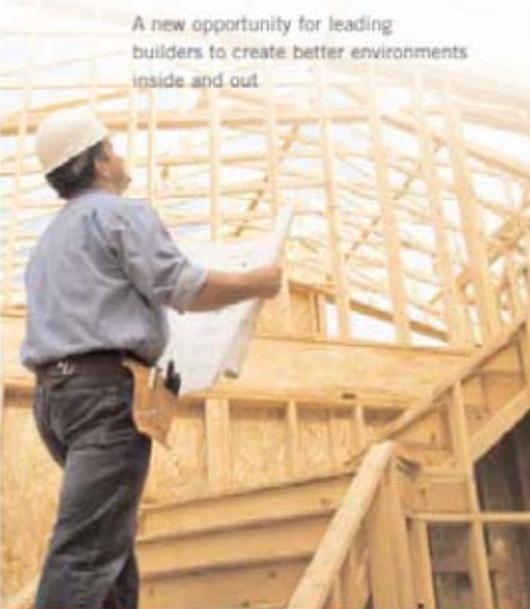
Builder & Consumer Brochures



EPA 402K-0900 | January 2009 | www.epa.gov/indoorairplus

ask about
 **Step up to Indoor airPLUS**

A new opportunity for leading builders to create better environments inside and out.



All Indoor airPLUS qualified homes also meet strict guidelines for energy efficiency set by ENERGY STAR, the nationally recognized symbol for energy efficiency.



EPA 402F090001 | January 2009

ask about
 **Indoor airPLUS Better Environments Inside and Out**



All Indoor airPLUS qualified homes meet strict guidelines for energy efficiency set by ENERGY STAR, the nationally recognized symbol for energy efficiency.



Customizable Builder Ads



BUILDER NAME
www.builder.com

Make sure that the air your family breathes is as safe and clean as the food you buy. Look for EPA's Indoor airPLUS on new homes from BUILDER. These homes come with special features to improve the air inside and reduce energy use to improve the air outside.

For more information, visit www.builder.com.



To Do:

- Go to farmer's market
- Change water filter
- Research bike helmets
- Breathe clean air???

we sell
All EPA Indoor airPLUS qualified homes are designed for superior indoor air quality and meet strict energy efficiency guidelines set by the U.S. Environmental Protection Agency. Learn more at epa.gov/iaq/indoorairplus.



BUILDER NAME
www.builder.com

Make sure that the air your family breathes is as safe and clean as the food you buy. Look for EPA's Indoor airPLUS on new homes from BUILDER. These homes come with special features to improve the air inside and energy-efficient features to reduce greenhouse gas emissions—and improve the air—outside.

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BUILDER NAME
www.builder.com

You do everything possible to protect your family. What about the air your family breathes? Help reduce exposure to pollutants such as mold, carbon monoxide, and radon gas by looking for the EPA Indoor airPLUS and ENERGY STAR® labels on new homes from (BUILDER).

For more information, visit www.builder.com.



To Do:

- Choose a car seat
- Install safety locks
- Research preschools
- Breathe clean air???

we sell
All EPA Indoor airPLUS qualified homes are designed for superior indoor air quality and meet strict energy efficiency guidelines set by the U.S. Environmental Protection Agency. Learn more at epa.gov/iaq/indoorairplus.





Incorporation into Advertising



Plus!





Technical Resources

Checklist



EPA Indoor airPLUS Verification Checklist

Address or Div/Lot#: _____ Date: _____

City/State/Zip: _____ Verified by: _____

Section	Requirements (see Indoor airPLUS Construction Specifications for details)	N/A	Builder	Rater
Water-Managed Site and Foundation				
1.1	Site & foundation drainage: sloped grade, protected drain tile, & foundation floor drains		<input type="checkbox"/>	<input type="checkbox"/>
1.2	Capillary break below concrete slabs & in crawlspaces (Exception - see specification)		<input type="checkbox"/>	<input type="checkbox"/>
1.3	Foundation wall damp-proofed or water-proofed (Except for homes without below-grade walls)		<input type="checkbox"/>	<input type="checkbox"/>
1.4	Basements/crawlspaces insulated & conditioned (Exceptions - see specification)		<input type="checkbox"/>	<input type="checkbox"/>
Water-Managed Wall Assemblies				
1.5	Continuous drainage plane behind exterior cladding, properly fastened to foundation		<input type="checkbox"/>	<input type="checkbox"/>
1.6	Windows & door openings fully finished		<input type="checkbox"/>	<input type="checkbox"/>
Water-Managed Roof Assemblies				
1.7	Gutters/downspouts direct water a minimum of 5' from foundation (Except in dry climates)		<input type="checkbox"/>	<input type="checkbox"/>
1.8	Fully finished roof/ceiling intersections along & above roof decking & roof penetrations		<input type="checkbox"/>	<input type="checkbox"/>
1.9	Blowdown membrane installed at valleys & penetrations (Except in dry climates)		<input type="checkbox"/>	<input type="checkbox"/>
1.10	No kneeling installed at eaves (Except in Climate Zones 1 - 4)		<input type="checkbox"/>	<input type="checkbox"/>
Interior Water Management				
1.11	Minimum resistant moisture/pesticide systems installed (i.e., flooring, subfloor, backing, & piping)		<input type="checkbox"/>	<input type="checkbox"/>
1.12	No vapor barriers installed on interior side of exterior walls with high condensation potential		<input type="checkbox"/>	<input type="checkbox"/>
1.13	No wet or water-damaged materials enclosed in building assemblies		<input type="checkbox"/>	<input type="checkbox"/>
2.1	Approved radon-resistant features installed (Exception - see specification)		<input type="checkbox"/>	<input type="checkbox"/>
2.2	The radon test kit & instructions/assistance for follow-up action provided by buyer (Optional-see specification)		<input type="checkbox"/>	<input type="checkbox"/>
Exterior				
3.1	Foundations joints & penetrations sealed, including all tight seal covers		<input type="checkbox"/>	<input type="checkbox"/>
3.2	Corrosion proof rodent/bird screens installed at all openings that cannot be fully sealed (e.g., attic vents)		<input type="checkbox"/>	<input type="checkbox"/>
4.1	HRV/ERV units tested, documented, performance system design documented, CMV method		<input type="checkbox"/>	<input type="checkbox"/>
4.2	Duct system design documented & properly installed OR duct system tested (check box if tested) <input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
4.3	No air handling equipment or ductwork installed in garage, continuous-air barrier required in adjacent assemblies		<input type="checkbox"/>	<input type="checkbox"/>
4.4	Room pressure balanced using transfer grille or jump ducts as required OR tested (check box if tested) <input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
4.5	Whole house ventilation system installed to meet ASHRAE 62.2 requirements		<input type="checkbox"/>	<input type="checkbox"/>
4.6	Local exhaust ventilation in outdoor kitchen, bar, grill, clothes dryer, central vacuum system, etc.		<input type="checkbox"/>	<input type="checkbox"/>
4.7	Central forced-air HVAC systems) have minimum MERV 8 filter, no filter bypass, & no ozone generators		<input type="checkbox"/>	<input type="checkbox"/>
4.8	Affordable dehumidification systems) or central HVAC dehumidification controls installed (in warm-humid climate only)		<input type="checkbox"/>	<input type="checkbox"/>
Combustion Source Controls				
5.1	Gas fuel direct vented, off-burner water heaters power vented or direct vented (Exceptions - see specifications)		<input type="checkbox"/>	<input type="checkbox"/>
5.2	Flue/chimneying stones vented outdoors & meet emissions/efficiency standards/requirements		<input type="checkbox"/>	<input type="checkbox"/>
5.3	Certified CO alarms installed in each sleeping zone (e.g., common hallway) according to NFPA 720		<input type="checkbox"/>	<input type="checkbox"/>
5.4	Leakage protected in common areas, visible smoking at least 20' from building, opening, shuttles/elevators only		<input type="checkbox"/>	<input type="checkbox"/>
Attached Garage Isolation				
5.5	Common wall/drywall, doors & garage air sealed before installation, house doors graded & close installed		<input type="checkbox"/>	<input type="checkbox"/>
5.6	Exhaust fan outdoors 70 cfm, rated for continuous use installed in garage & vented to outdoors (optional)		<input type="checkbox"/>	<input type="checkbox"/>
6.1	Certified low-formaldehyde pressed wood materials used (i.e., plywood, OSB, MDF, cabinetry)		<input type="checkbox"/>	<input type="checkbox"/>
6.2	Certified low-VOC or no-VOC interior paints & finishes used		<input type="checkbox"/>	<input type="checkbox"/>
6.3	Carpet, upholstery, & cushion quality for CRV Green Label Plus or Green Label testing program		<input type="checkbox"/>	<input type="checkbox"/>
Final				
7.1	HVAC systems & ductwork method dry, clean, & properly installed		<input type="checkbox"/>	<input type="checkbox"/>
7.2	Homes ventilated before occupancy OR initial ventilation test reports provided for buyer		<input type="checkbox"/>	<input type="checkbox"/>
7.3	Completed checklist & other required documentation provided for buyer		<input type="checkbox"/>	<input type="checkbox"/>

Rater/Provider: _____ Builder: _____
 Company: _____ Company: _____
 Signature: _____ Signature: _____

EPA United States Environmental Protection Agency

Indoor airPLUS Verification Checklist

Address or Div/Lot#: _____

City/State/Zip: _____ Date: _____ Verified by: _____

Section	Requirements (see Indoor airPLUS Construction Specifications for details)	N/A	Builder	Rater
Water-Managed Site and Foundation				
1.1	Site & foundation drainage: sloped grade, protected drain tile, & foundation floor drains		<input type="checkbox"/>	<input type="checkbox"/>
1.2	Capillary break below concrete slabs & in crawlspaces (Exception - see specification)		<input type="checkbox"/>	<input type="checkbox"/>
1.3	Foundation wall damp-proofed or water-proofed (Except for homes without below-grade walls)		<input type="checkbox"/>	<input type="checkbox"/>
1.4	Basements/crawlspaces insulated & conditioned (Exceptions - see specification)		<input type="checkbox"/>	<input type="checkbox"/>



Technical Specification







Learn more:

www.epa.gov/indoorairplus

OR

email: iap@icfi.com