



**U.S. Department of
Energy Voluntary
Partnerships:
*Better Buildings***

**美国能源部
自愿项目：
美国好建筑**

Holly Jamesen Carr
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DOE's Building Technologies Office

能源部建筑技术办公室



Market Partnerships 市场的作用

STEP UP TO THE BETTER BUILDINGS CHALLENGE

- ▶ Earn national recognition for energy efficiency leadership
- ▶ Join DOE in media events spotlighting your energy efficiency achievements
- ▶ Access technical assistance to analyze your portfolio energy use

好建筑挑战
赢得国家表彰
参与DOE媒体活动
获得技术支持

Leadership Circle
领导层

PARTICIPATE IN THE BETTER BUILDINGS ALLIANCE

- ▶ Participate in peer-to-peer networking opportunities addressing sector specific energy topics
- ▶ Tap into expert-led technology and market solutions teams
- ▶ Access technology demonstration opportunities
- ▶ Develop public resources such as technical performance specifications and sample lease clauses

Energy Efficiency
Support Group
能效支持团队

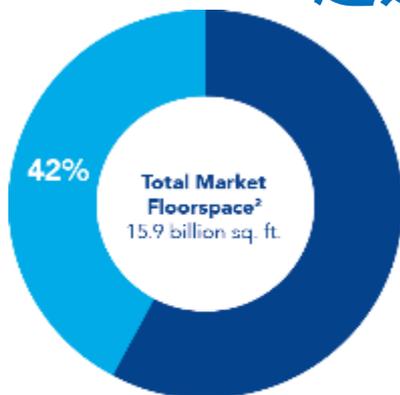
好建筑联盟
参与同僚联络网活动
获得技术和市场解决方案团队支持
获得技术示范机会
编制公共资料

Better Buildings Alliance: Who is Involved?

好建筑联盟：参与方

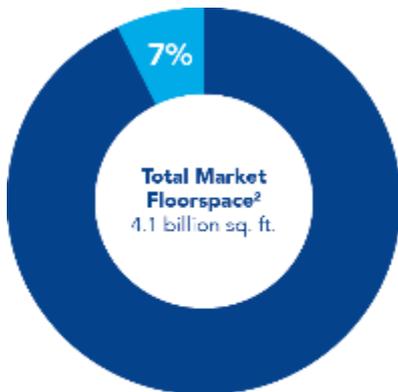
>200 partner organizations >11 billion sq. ft.

超过200的合作伙伴，超过110亿平方英尺



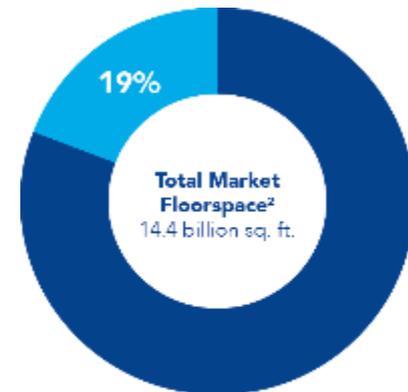
Commercial Real Estate
Partner Floorspace
6.6 billion sq. ft.

商业地产占
地面积



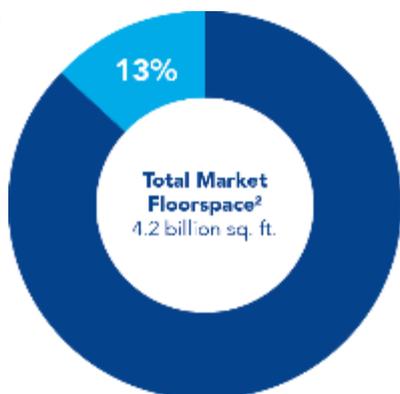
Higher Education
Partner Floorspace
.30 billion sq. ft.

高等教育合
作伙伴占地
面积



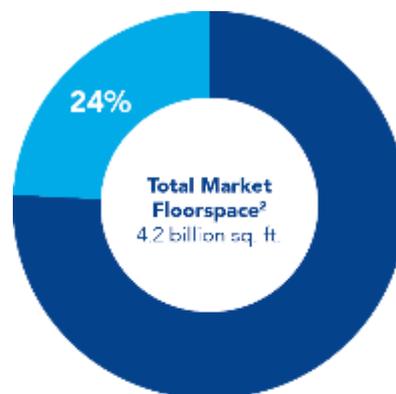
Retail, Food Service & Grocery
Partner Floorspace
2.7 billion sq. ft.

零售、食品
和杂货合作
伙伴占地面
积



Healthcare
Partner Floorspace
.52 billion sq. ft.

医疗合作伙
伴占地面积



Hospitality
Partner Floorspace
1.0 billion sq. ft.

娱乐业合作伙
伴占地面积

Better Buildings Alliance: How is it organized?

更好建筑联盟：组织方法

-  **Commercial Real Estate**
商业房产
-  **Food Service, Retail, and Grocery**
食品服务、零售和杂货
-  **Healthcare**
医疗
-  **Hospitality**
娱乐
-  **Higher Education**
高等教育

MARKET SOLUTIONS TEAMS

市场解决方案团队



Energy Efficiency Project Financing
能效项目融资



Leasing and Tenant Build-Out
租赁和租户建设



Energy Data Access
能源数据



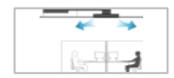
High Performance Property Valuation and Mortgages
高性能房产估值和抵押

TECHNOLOGY SOLUTIONS TEAMS

技术解决方案团队



Lighting & Electrical
照明、电力



Space Conditioning
空间调节



Plug & Process Loads
插头和过程负荷



Refrigeration
冰箱



Energy Management Information Systems
能源管理信息系统



Renewables Integration
可再生能源接入



NEW! Building Envelope
新! 建筑外围

Better Buildings Alliance 更好建筑联盟 (BBA) : What do members commit to? 成员承诺做什么?

COMMIT 承诺

- Set an organization-wide energy reduction goal – 2% per year or greater encouraged 设置全公司节能目标-每年2%或更多
- Assign a representative to the BBA relationship 安排代表和BBA联系

ACT 行动

- Participate in at least one team or activity each year 每年至少参与一次团队或活动
- Monitor progress toward your goals 监督目标实现进展

SHARE 分享

- Share your success via peer networking, case studies, presentations, data sharing, etc. 通过同僚联络网、案例、演示和数据分享分享成功经验

Better Buildings Alliance: 更好建筑联盟 Technology Campaigns 技术倡议宣传

- Provide **recognition** and **resources** to encourage voluntary technology adoption 提供表彰和资源来鼓励自愿应用相关技术
- Builds the case for strengthening codes and standards 建立案例，促进标准和条例的加强
- Current campaigns include: 目前的技术倡议宣传活动包括
 - Smart Energy Analytics Campaign (SEA) 智慧能源分析
 - Promotes: Energy Management Systems 宣传能源管理体系
 - Advanced Roof-top Unit Campaign (ARC)
 - Promotes: Planned replacement, controls, RTU maintenance 先进屋顶风机
 - 推广有计划地更换、控制，RTU维护



Better Buildings Challenge

好建筑挑战

Better Buildings Challenge

好建筑挑战



- Commit to 20% or greater energy savings across building portfolio 承诺建筑部门实现20%以上的节能量
- Develop case studies 案例
- Report annually on progress 每年汇报进展

Launched 2011, Now 400+ Partners 于2011年启动，现有400多参与者

Commercial, Industrial, Public, Private 商业、工业、公共和私有建筑

Represent: 代表

4+ Billion Square Feet 超多40亿平方英尺

\$2 Billion Private Financing 2亿私有融资

600+ Manufacturing plants 600多制造厂

\$2 B Federal Commitment 20亿联邦投入

Better Buildings Challenge

好建筑挑战



Better Buildings Partners in China 在中国的建筑合作伙伴



that was easy.®



Partner Highlight: Staples

杰出合作伙伴：斯台普斯



目标

GOALS

25%

Reduction in Energy Intensity ⓘ

降低能源强度 25%

20%

Reduction in Water Intensity ⓘ

降低水资源强度 20%

承诺

CHALLENGE COMMITMENT

45

Million Square Feet

PROGRESS

进展

13%

Cumulative (vs.

Baseline) 相对基准情景
共降低13%



Goal Achieved

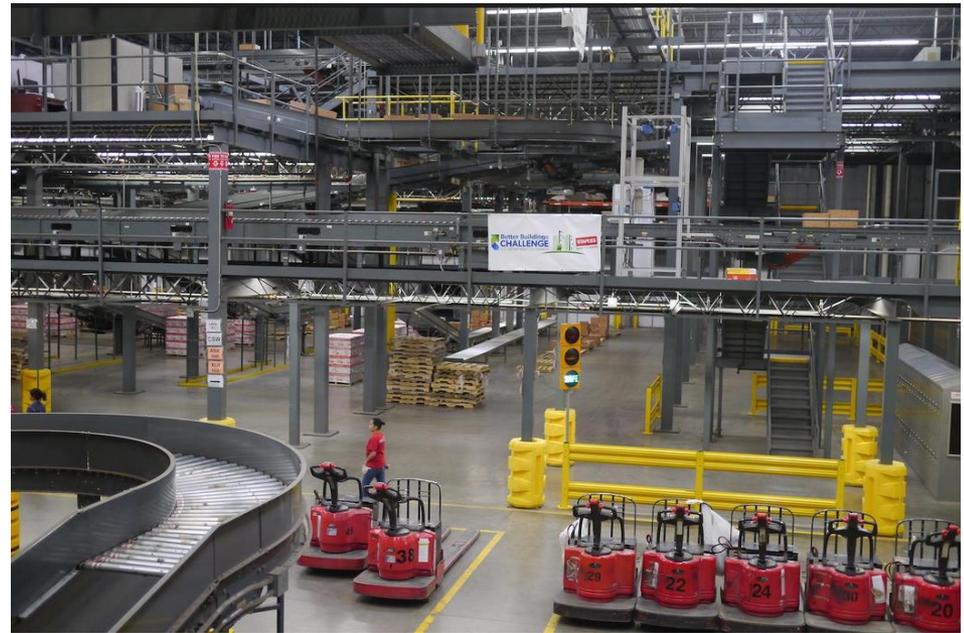


that was easy.®

Staples' Energy Efficiency Solutions 斯台普斯的能效解决方案

Eco-Audits 生态审计

- Energy efficiency “SWAT Team”能效“SWAT团队”
- 2-day event 两天的活动
- Employee participation 雇员参与
- \$\$ upfront 初始投资
- 10% immediate savings 直接节省达10%



Walmart's Energy Efficiency Solutions 沃尔玛的能效解决方案

Showcase Project: South Euclid, OH

- **Size:** 185,000 Sq. Ft.
- **Energy Savings:** 37%
- **Cost Savings:** \$164,000
- **Measures:** Lighting and space conditioning

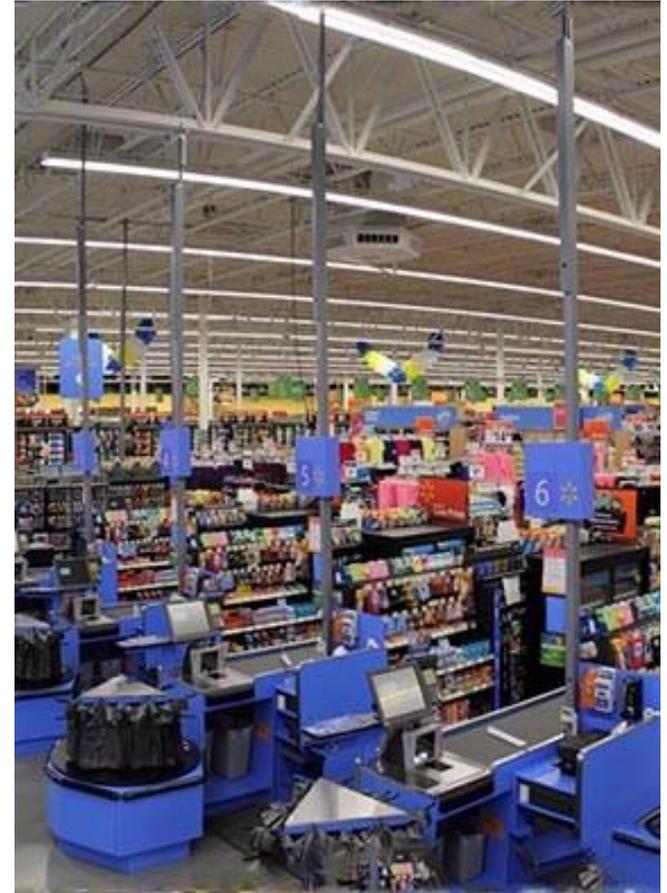
展示项目：俄亥俄州南欧几里得

占地185000平方英尺

节能37%

节省成本\$164,000

手段：照明和空间调节



Partner Highlight: The Wendy's Company

杰出合作伙伴：温迪公司



目标

GOALS

20%

Reduction in Energy Use per Transaction ⓘ

降低单位交易用能 20%

PROGRESS

进展

6%

Cumulative (vs. Baseline)

相对基准情景共降低6%

承诺

CHALLENGE COMMITMENT

1.5

Million Square Feet



Wendy's Energy Efficiency Solutions 温迪的能效解决方案

- Wendy's supports franchises to 温迪给特许经营商提供支持：
 - Collect, analyze, and benchmark energy data 收集, 分析和评价比对能源数据
 - Set energy goals 设定能源目标
 - Implement energy-saving technologies 实施节能技术
- 10 franchisees (545 restaurants) in BBC 更好建筑挑战中有10个（545间餐厅）



Partner Highlight: Nike

杰出合作伙伴：耐克



目标

GOALS

20%

Reduction in Energy Intensity 

降低能源强度 20%

CHALLENGE COMMITMENT

744

Million Square Feet

进展

PROGRESS

2%

Cumulative (vs. Baseline)

相对基准情景共降低2%
承诺



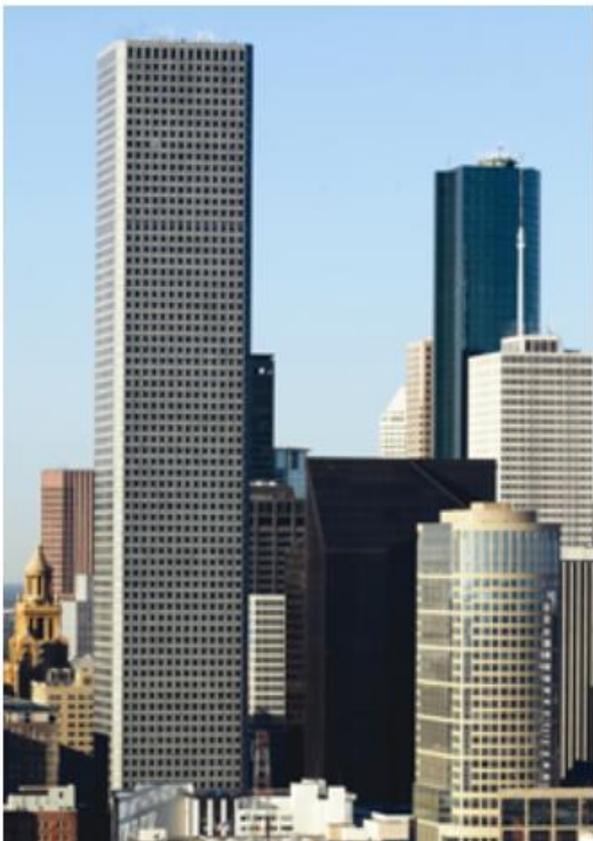
Better Buildings City Partners with Community Commitments 作出社区承诺的好建筑城市伙伴



- Atlanta, GA 佐治亚，亚特兰大
- Chattanooga, TN 田纳西，查塔努加
- Chicago, IL 伊利诺伊，芝加哥
- Fort Worth, TX 德克萨斯，沃斯堡
- Houston, TX 德克萨斯，休斯顿
- Los Angeles, CA 加利福尼亚，洛杉矶
- Milwaukee, WI 威斯康星，密尔沃基
- Seattle, WA 华盛顿，西雅图
- Toledo, OH 俄亥俄，托莱多
- Washington D.C. 华盛顿特区

Partner Highlight: Houston, TX

杰出合作伙伴：德克萨斯，休斯顿



目标 GOALS

20%

Reduction in Energy
Intensity ⓘ

降低能源强度 20%

PROGRESS 进展

15%

Cumulative (vs.
Baseline)

相对基准情景共降低15%

承诺 CHALLENGE COMMITMENT

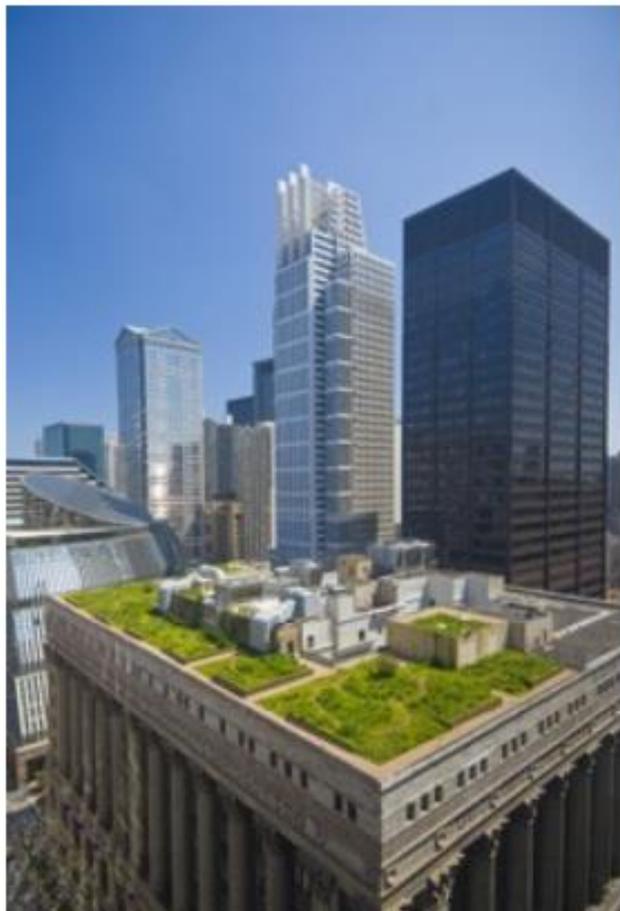
744

Million Square Feet

Community Commitment 社区承诺:
23 Million Square Feet
2300万平方英尺

Partner Highlight: Chicago, IL

杰出合作伙伴：芝加哥，伊利诺伊



目标

GOALS

20%

Reduction in Energy Intensity ⓘ

降低能源强度 20%

承诺

CHALLENGE COMMITMENT

744

Million Square Feet

Community Commitment 社区承诺:
21.5 Million Square Feet
2150万平方英尺

PROGRESS

进展

4.4%

Average Annual % Improvement

年均提升比例

Better Buildings Solution Center

好建筑解决方案中心



- Over 200 solutions tested and proven by Partners
超过200个解决方案通过合作伙伴测试和验证

- Find solutions by topic, building type, solution type, building size, sector, technology, location, and more.

通过主题、建筑类型、解决方案类型、建筑规模、行业、技术、位置及更多来查找解决方案

energy.gov/betterbuildings/solutioncenter

Getting Seriously Efficient (and fun)



What have we learned?: 我们学到了什么?

5 Habits of Energy Efficiency Leaders 能效领袖的5个习惯

1. Know the goal. 明确目标



2. Data matters. 数据重要



3. Look beyond technology. 超越技术



4. It takes an (energy) champion. 能源倡议

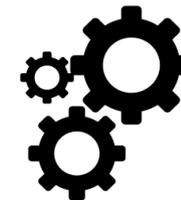
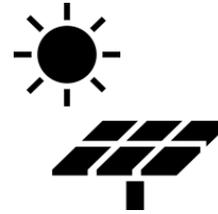


5. Learn, teach, evolve. 学习、指导、演变



What's Next?: 下一步: Better Communities Alliance 好社区联盟

- **One-stop shop** for local government access to DOE clean energy support
地方政府一站式获得美国能源部清洁能源的支持
- **Nexus** for resource sharing between 资源共享纽带
 - government 政府
 - non-profits 非盈利
 - philanthropies 慈善
 - private sector 私营部门
- **Recognition** for superior outcomes 卓越成果表彰



Thank you 谢谢大家

Holly Carr

Better Buildings Partnerships

U.S. Department of Energy

holly.carr@ee.doe.gov

美国能源部好建筑合作伙伴项目