The Commercial Integration Program accelerates the adoption of energy saving technologies and solutions in existing and new commercial buildings of all types by reducing specific technical and market barriers to spur investment in building energy performance.

External Influences: DOE budget, Construction industry, Energy prices, Real estate market, Market incentives, State/local policies, Regulation

Objectives

Activities / Partners

Outputs

Short Term Outcome



Mid-Term Outcome



Long Term Outcome

Demonstrate energy efficient technologies & solutions in representative buildings

Prove energy

solutions on a

national scale

with market

leaders

Accelerate

adoption of

by providing

information

energy efficiency

related to energy

saving solutions

saving

Demo, test, validate, & document tech. performance with market leader & federal lead by example partners

Facilitate & catalyze strategic channels for technology adoption based on market leader needs

Develop decision support resources for building design & construction professionals

Provide technical support to market leaders to integrate energy saving solutions in new & existing buildings; recognize success

Facilitate & increase the use of tools & access to standardized, transparent building performance data

Educational support to promote a quality workforce

Demo reports / case studies

Procurement specs to make equipment purchasing easier

Best practices HIT Installation/Operation Guides

HIT adoption campaigns

Design & Retrofit Guides & guides on cost control & energy targets in construction contracts

Better Buildings Challenge & Alliance forums for market leaders

**Building Energy Asset Score** 

OpenStudio & guides

Standardized building performance data tools (BEDES, SEED), data available in BPD

Workforce Guidelines & Building Retuning Training

Leading building owners equipped with solutions to guide equipment purchases & recognized for best practices

Leading building owners & managers commit to installing HIT tech., which increases awareness

Building designers & engineers equipped with knowledge to properly design & install building energy saving solutions

Market leaders commit to integrate energy saving solutions into building portfolios & assist with accelerating in the broader market

Building owners, operators, managers & investors equipped with tools & data to understand, manage & value building energy performance

Builder owners & energy efficiency programs invest in HIT tech. in the market

HIT solutions and outputs support integration of new tech. into energy efficiency program design & model energy codes

Building designers & engineers build above energy codes using highly efficient tech & systems

Market leaders widely integrate energy saving solutions into portfolio of buildings, reducing risk for middle & late adopters

Array of building stakeholders use building energy performance data & tools to incorporate energy efficiency into appraisal, underwriting, & other financial transactions Market leaders regularly adopt solutions that improve whole building energy performance & reduce the energy intensity of buildings, across all

climates &

building types.

Due to success of market leaders, the rest of the market recognizes the value of energy efficiency & are motivated to adopt energy saving solutions on a national scale.

\*HIT refers to high impact technologies & CBI's catalyst framework

Impact

Demo 15 HITs with at least 10% savings & drive adoption with market Prove with market leaders 25% savings in existing bldgs. & 50% savings in new bldgs.

Develop solutions to market barriers

Market leaders reduce EUI 30% in existing bldgs. & 50% in new bldgs. by 2025

Reduce avg. EUI in all bldgs. 30% by 2030

## Commercial Buildings Integration Program Logic Model

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OBJECTIVE	ACTIVITIES	KEY OUTPUT	SHORT-TERM OUTCOME	MID-TERM OUTCOME	LONG-TERM OUTCOME
Demo tech & solutions	Demo, test, & validate tech  Catalyze deployment channels	Demo reports  Performance specs & operation guidance  Tech adoption campaigns	Industry- validated solutions Leaders install tech	Solutions & new tech in programs, codes	The market values
Prove savings at scale	Support market leaders  Share best practices	Market leader teams & forums  Design & retrofit guides	Leaders implement new solutions & guidance	Solutions widely adopted	energy efficiency fully and commercial energy intensity
Accelerate market adoption	Increase access to building data  Increase usage of modeling tools  Improve building workforce	Open source building analysis tools and guides  Workforce curricula & guidelines	Market has tools & workforce that value efficiency  EXTER • DOE Budget • Construction India		ENCES

• Market Incentives

• Real Estate Market