



U.S. DEPARTMENT OF
ENERGY

Energy Efficiency &
Renewable Energy



Commercial Buildings Integration (CBI)

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Commercial Buildings Integration (CBI)



Commercial Buildings Integration (CBI) Mission/Vision

CBI Mission

Accelerate voluntary uptake of significant energy performance improvements in existing and new commercial buildings.

CBI Vision:

A commercial buildings market where energy performance is a key consideration during construction, operation, renovation, and transactions, and net zero energy ready commercial buildings are common and cost-effective.

CBI Mid-term and Long-term Goals

Existing Buildings	Mid-term (2020)	Demonstrate that it is cost-effective to reduce energy use of typical commercial buildings by 20%.
	Long-term (2030)	Demonstrate that it is cost-effective to reduce energy use of typical commercial buildings by 50%.
New Buildings	Mid-Term (2020)	Demonstrate that it is cost effective to construct commercial buildings that use 50% less primary energy than ASHRAE 90.1, 2004.
	Long-Term (2030)	Demonstrate that it is cost effective to construct commercial buildings that are net zero energy ready.

- Demonstrate is applicable to new and existing building types that account for 80% of commercial energy consumption in all climate zones.
- Cost-effective is based on a life cycle assessment and/or relevant market-driven economic criteria.
- Unless otherwise stated, percentages are averages over a suite of solutions that when fully deployed, would reduce energy use of typical U.S .commercial buildings from a 2010 baseline as defined by AEO.

Key Barriers

Lack of reliable information on costs and likely impacts of efficiency measures.

Efficiency investments perceived as too expensive or complicated / risky to access internal or external capital.

Current real estate, design, construction and building services markets do not appropriately value energy efficiency.

Inadequate training or experience of building services workforce

Strategies

Provide reliable information about high impact technologies (HITs) and systems through real world demonstrations and deployment activities.

Develop & deploy low cost, standardized, interoperable tools that help stakeholders understand the value of energy efficiency.

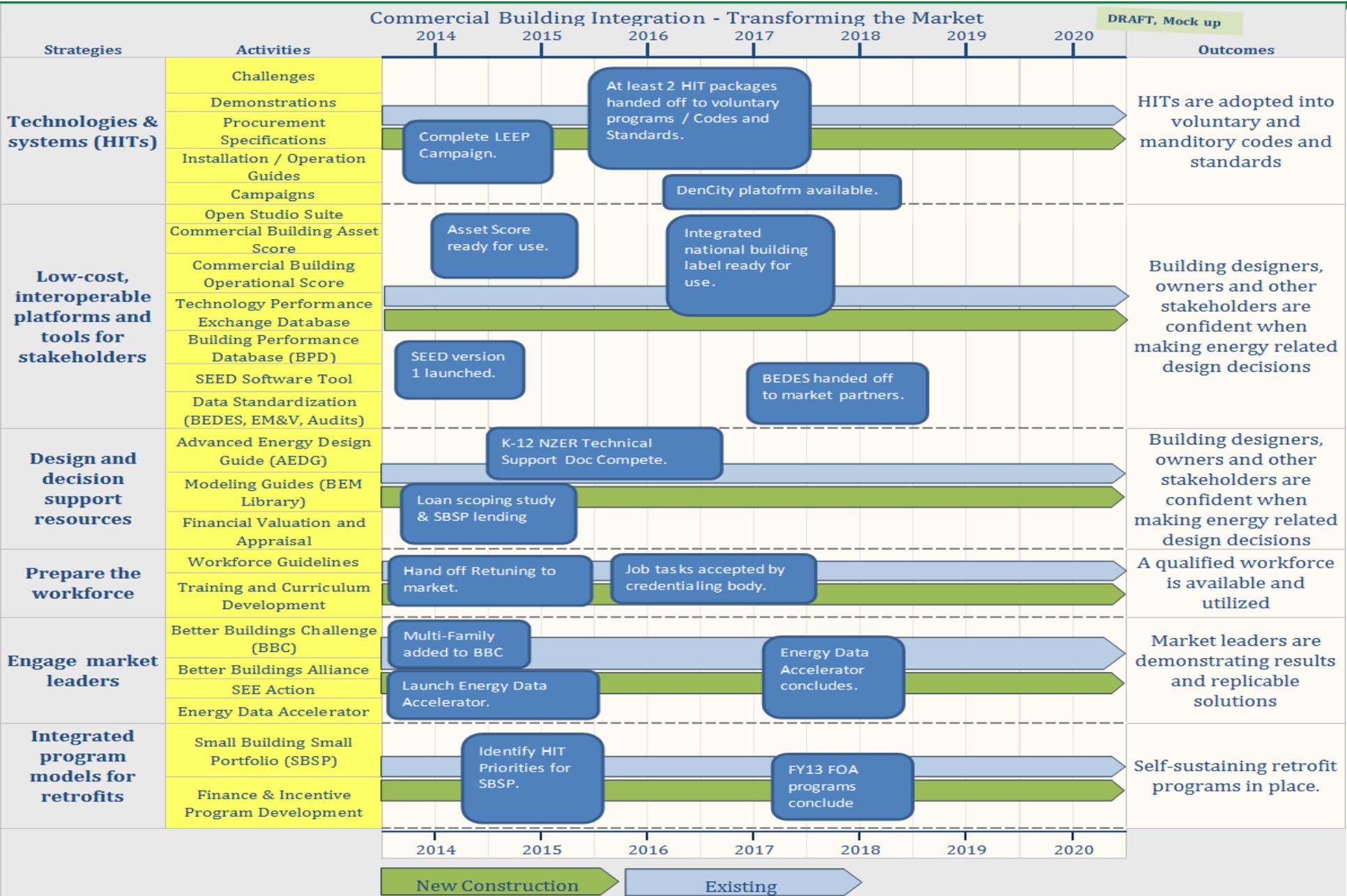
Provide design and decision support resources for new and existing commercial buildings.

Prepare the workforce to design, build and operate buildings more efficiently.

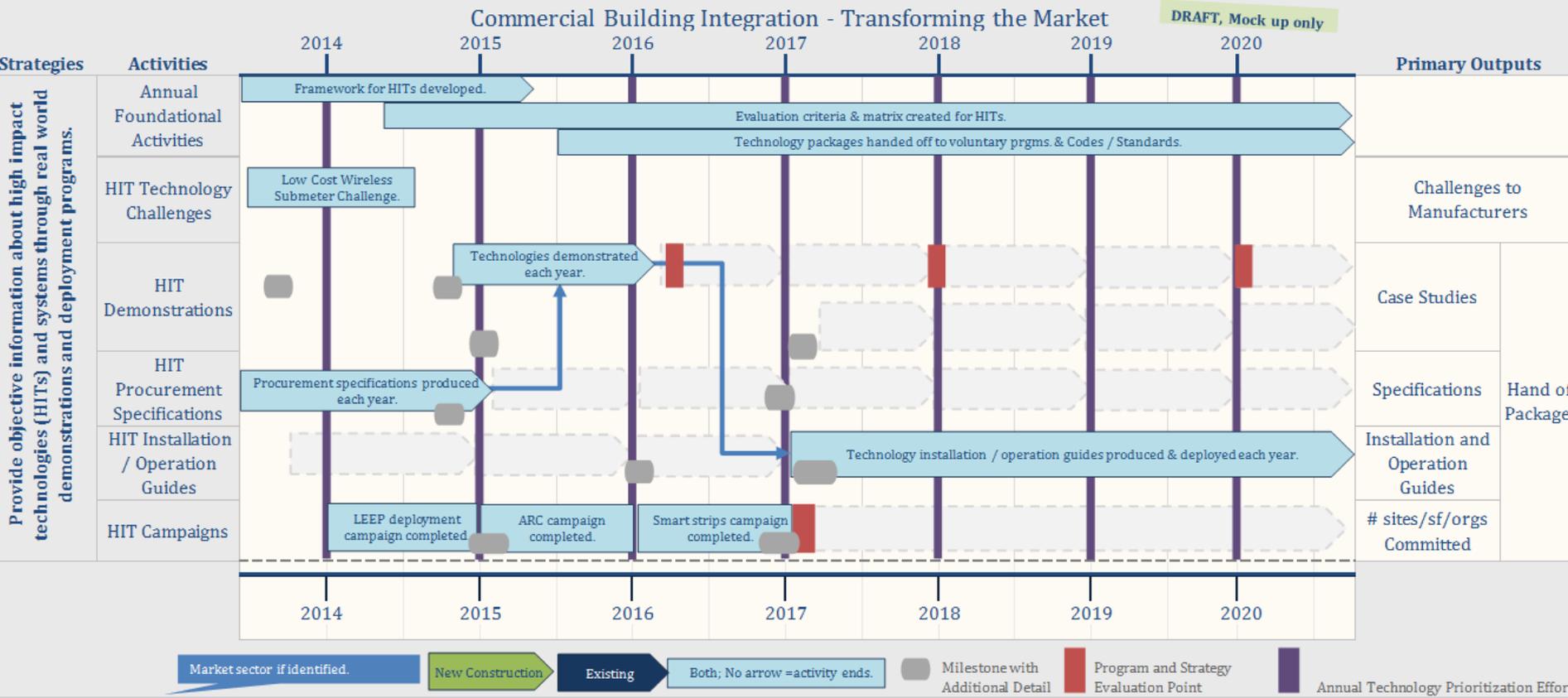
Engage market leaders through partnership programs.

Support development of new, integrated program models for building retrofit.

CBI Multi-Year Program Plan: Selected Milestones

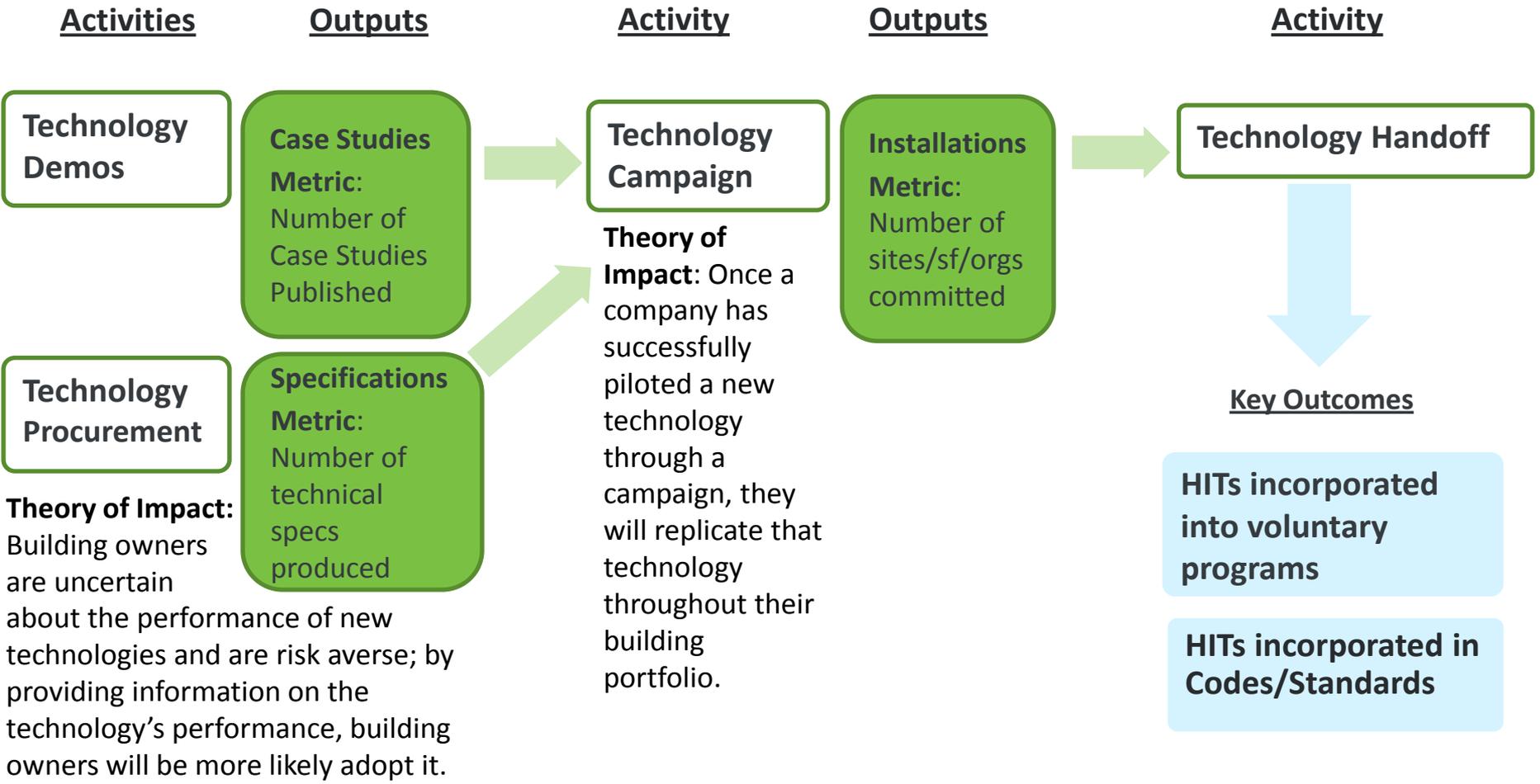


CBI: Demonstrate/Deploy Technologies and Systems



Logic Model Example: HIT Deployment Outputs, Outcomes, Impacts

GOAL: Provide reliable information about high impact technologies (HITs) and systems through real world demonstrations and deployment activities.



CBI MYPP / Funding Priorities

1. Deploying High Impact Technologies (HITs)

- Identification and prioritization of pipeline
- Bringing technologies to market: Challenges
- Building the case: technology demonstrations, specifications, other support materials
- Working with industry: Better Buildings Alliance, federal and other partners



2. Developing core tools, guides and products

- Energy data access and analysis: Commercial Building Asset Score, Building Performance Database, SEED platform
- Open Studio and energy modeling tools
- Workforce development and training
- New program models for technology and service delivery



3. Engaging industry stakeholders

- Better Buildings Challenge
- Better Buildings Alliance
- SEE Action
- Partnerships with federal, state and local government

