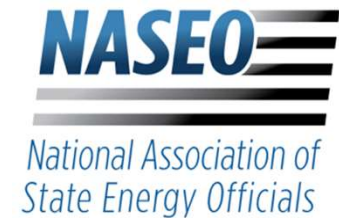


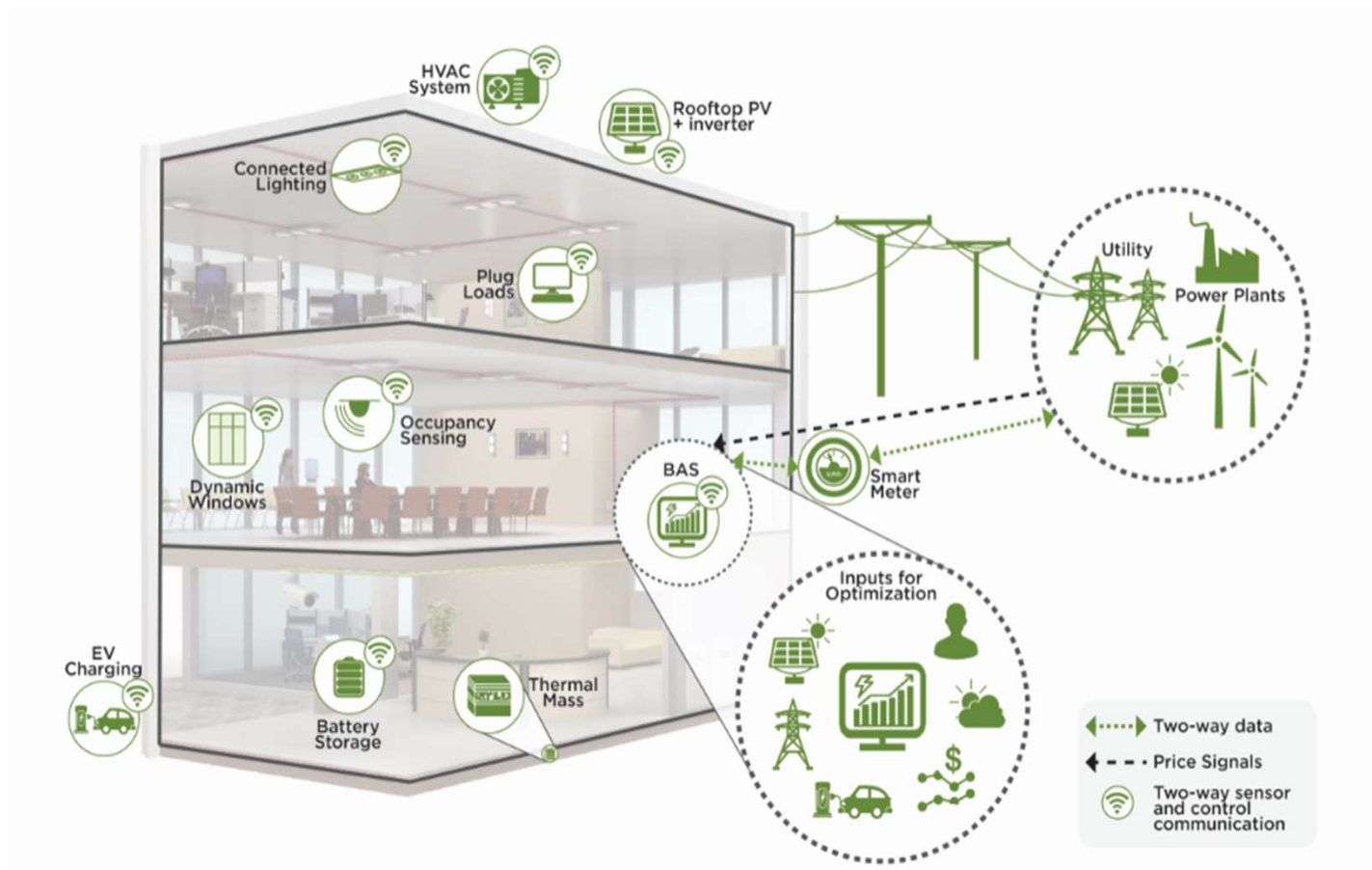
Grid-Interactive Efficient Buildings

NASEO-NARUC Grid-Interactive Efficient Buildings Working Group

David Terry, NASEO
*NAESCO Technology and Financing
Conference
Providence, RI
June 14, 2019*

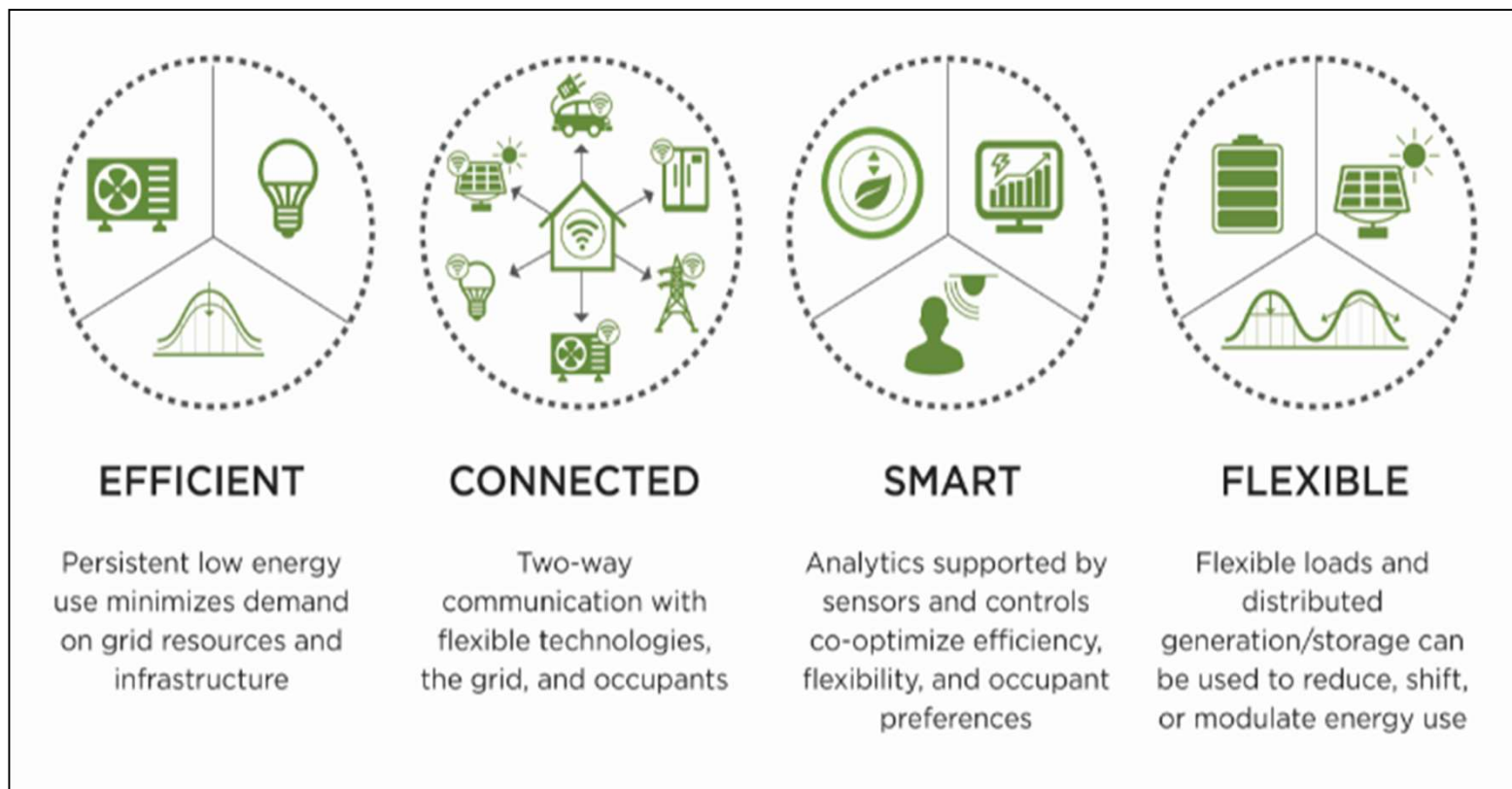


Grid-Interactive Efficient Buildings – GEB



GEB

Characteristics



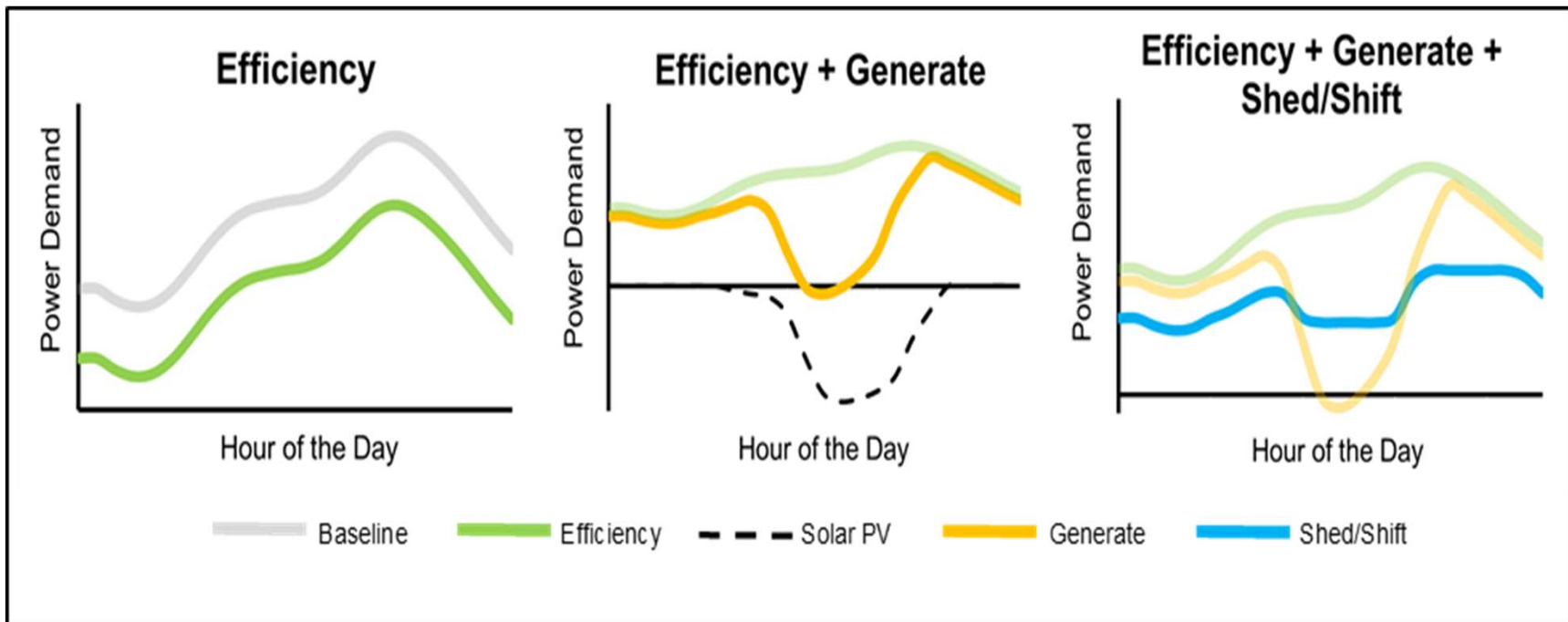
GEB

Drivers and Issues

- **Drivers:** State energy and climate policies; grid reliability and affordability concerns; grid integration, storage, and efficiency options create optimization opportunities (e.g., reduced costs and emissions, moderate peaks and ramp rates, enhance resilience, facilitate distributed resource integration)
- How can we optimize facility interactions with the grid?
- How can state policies, programs, and regulations advance grid and facility optimization through Grid-Interactive Efficient Building (GEB)?
- What are the roles for States, public facilities operators, energy services companies, and public-private partnerships?

GEB

Provides Demand Flexibility



NASEO-NARUC GEB Working Group

State Working Group Co-Chairs:

- Kaci Radcliffe, Oregon Department of Energy
- Hanna Terwilliger, Minnesota Public Utility Commission staff
- NASEO-NARUC GEB Working Group States:

Colorado

Michigan

South Carolina

Connecticut

Minnesota

Tennessee

Florida

New Jersey

Virginia

Hawaii

New York

Wisconsin

Massachusetts

Oregon

- Working Group includes federal and private sector engagement

NASEO-NARUC GEB Working Group Purpose

- Recognize temporal and locational value of energy efficiency and other distributed energy resources
- Inform states about GEB technologies and applications
- Identify opportunities and impediments – non-technical (e.g., market, policy) and technical
- Identify and express state priorities, concerns, interests
- Enhance grid reliability, resilience, and affordability
- Inform state planning, policy, regulations, and programs
- Advance roadmaps and pilots
- Supported by DOE BTO and NASEO

NASEO-NARUC GEB Working Group Activities

Research and Information Gathering

- Conduct State interviews and data collection
- Develop and facilitate topical calls and exchanges
- Conduct workshop, webinar series, briefing papers
- Support state convenings, research, technical consultations
- Identify policy and regulatory options to facilitate GEB

Roadmaps, Assistance, and Pilots

- Help states to explore GEB in their state contexts
- Conduct scoping of and prepare model GEB road mapping kit
- Assist States in exploring GEB in their State's context
- Prepare GEB pilot scopes – Institutional, commercial, residential
- Inform development of pilots and issues (technology, policy, market)

GEB

Resources

- NASEO GEB Program Lead: Rodney Sobin rsobin@naseo.org
- NASEO-DOE Webinar: [GEB and Automated Demand Response](#) 2019
- NASEO [Energy Policy Outlook Conference](#)
 - [Grid-interactive Efficient Buildings](#) (DOE)
 - [Buildings-to-Grid: Critical Issues for Decision Makers](#)
- 2018 NASEO [Annual Meeting](#)
 - [GEB: Energy Efficiency and Grid Optimization](#) (DOE)
 - [What's Next for Energy Efficiency: Grid Interaction](#) (Weidt Group)
 - [Grid Interactive Efficient Buildings](#) (PG&E)
 - [Smart Neighborhood](#) (Southern Company)
- [DOE GEB](#) website
 - [Factsheet](#)
 - [Overview](#)