BASF Supports ARPA-E

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Who we are: BASF in North America

- Approximately 120 production and R&D sites
- 20,000+ employees
- Facilities in 32 states
- NA HQ in Florham Park, NJ
- Verbund sites in Freeport & Geismar
- ≈ 2,000 scientists in R&D

California Research Alliance (CARA)
- Stanford University
- UC Berkeley
- UC Los Angeles
- UC Davis
- UC San Diego

North American Center for Research on Advanced Materials (NORA)
- Harvard University
- Massachusetts Institute of Technology
- University of Massachusetts Amherst
BASF corporate sponsor of the annual Energy Innovation Summit since 2011.

- Energy Innovation Summit provides Companies/Universities/National Labs collaborative opportunities with industry throughout the energy space via:
  - BASF research divisions
  - BASF business units e.g. channel to market
  - BASF venture capital & new business development
  - BASF manufacturing
  - BASF CARA & NORA postdoctoral centers

- ARPA-E program managers are thought leaders in the energy landscape for industry
- ARPA-E, with input from industry, develops white space for transformational energy solutions to ensure US energy independence, competitiveness and sustainability.
- Reauthorization of ARPA-E is imperative for energy technology leadership and creating the technological opportunities of tomorrow.
Coupling Industries & Growth Fields with ARPA-E Programs

Global need

- Resources & Environment
- Food & Nutrition
- Quality of Life

Key customer industries

- Transportation
- Agriculture
- Construction
- Energy
- Consumer Goods
- Electronics
- Health & Nutrition

Growth fields

- Batteries for Mobility
- Enzymes
- E-Power Management
- Functional Crop Care
- Heat Management for Construction
- Lightweight Composites
- Organic Electronics
- Plant Biotechnology
- Water Solutions
- Wind Energy

ARPA-E programs align with technology growth fields focused on global needs
Important DOE Programs

Programs Impacting the Built Environment

- Building Energy Codes Program (Efficiency) - BTO

  - Helps provide technical assistance to states, local governments to adopt and implement energy codes
  
  - BTO strives to reduce by 2025, the energy use for space conditioning and water heating in single-family homes by 40% from 2010 levels

- Building America Program (Efficiency)

  - Leverages building science expertise, innovation, and applied research for high performance homes with emphasis on efficiency to benefit the residential building industry
We create chemistry