



# BASF

## Supporting DOE Programs & Technologies

 **BASF**  
We create chemistry



Curtis J. Zimmermann  
March 5, 2021

# Who we are

## BASF in North America – 2020 performance



**~150**  
production  
and R&D sites

CARA

**18,000**  
Employees



NORA



**\$16.4B**

sales



**28%**  
of worldwide  
BASF Group  
sales

# DOE Critical Energy Programs

## ARPA-E

- Transformational energy technologies. Unicorn territory.
- OPEN 2021 FOA right now!

## ENERGY STORAGE

- Imperative for renewable energy, AV's/EV's and...
- DOE has a road map!

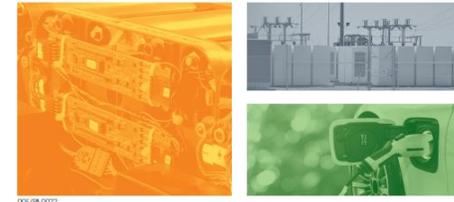
## PLASTICS INNOVATION CHALLENGE

- Plastics and energy efficiency?
- Valorization → Circularity
- Plastic waste as a “Critical Material” to reduced energy utilization
- ChemCycling™

## HYDROGEN (H<sub>2</sub>)

- H<sub>2</sub> economy is here!
- Production/infrastructure for **grey**, **blue** & **green** hydrogen.
- Methane pyrolysis

**All areas contribute to energy efficiency**

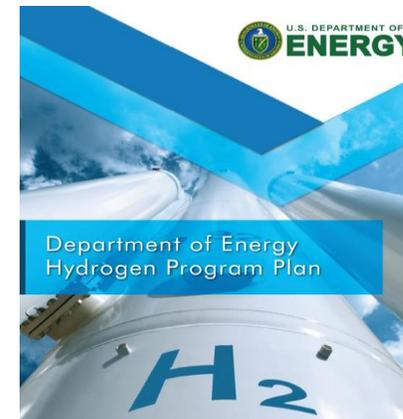


## Plastics Innovation Challenge Draft Roadmap

U.S. Department of Energy



U.S. DEPARTMENT OF ENERGY



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# DOE Critical Energy Programs

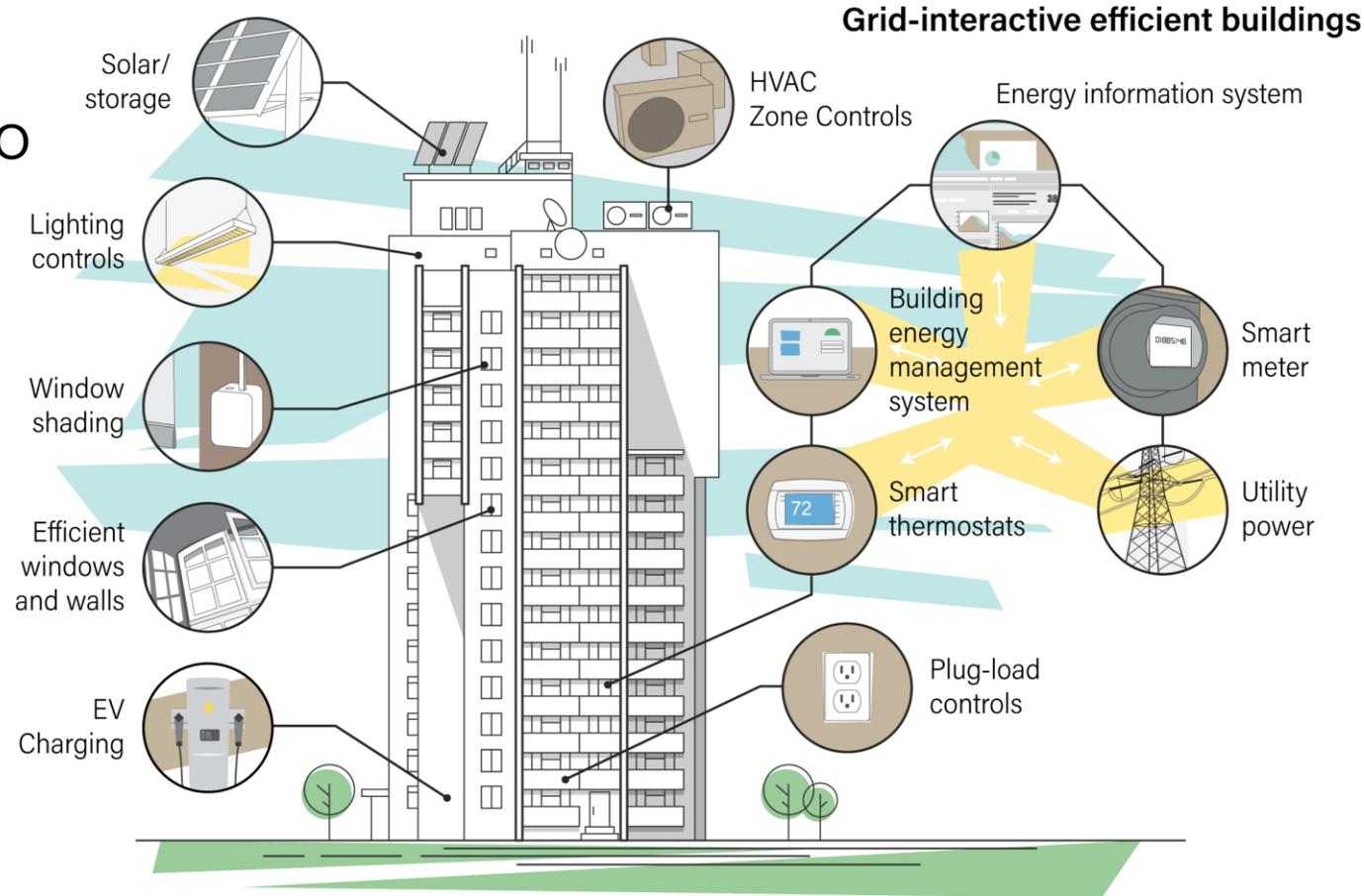
## Programs Impacting the Built Environment

### □ Building Energy Codes Program (Efficiency) - BTO

- Technical and financial assistance to states, local governments to adopt and **implement** energy codes
- Additional funding to update 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
- REScheck & COMcheck supporting tools

### □ Building America Program (Efficiency)

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





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