BASF
Supporting DOE Programs & Technologies

Curtis J. Zimmermann
March 5, 2021
Who we are
BASF in North America – 2020 performance

- 18,000 Employees
- ~150 production and R&D sites
- $16.4B sales
- 28% of worldwide BASF Group sales

CARA
NORA
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 (H₂)
- H₂ economy is here!
- Production/infrastructure for grey, blue & green hydrogen.
- Methane pyrolysis

All areas contribute to energy efficiency
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
BASF
We create chemistry