

Department of Energy

Energy Efficiency & Renewable Energy

The Biomass Program is working to advance biomass technologies in support of DOE's mission to strengthen America's energy security, environmental quality, and economic vitality through:



Feedstocks

Conversion technologies

Integrated biorefineries

Infrastructure

Biopower

Advanced biofuels

Developing lower cost feedstock logistics systems

Improving conversion efficiencies and costs

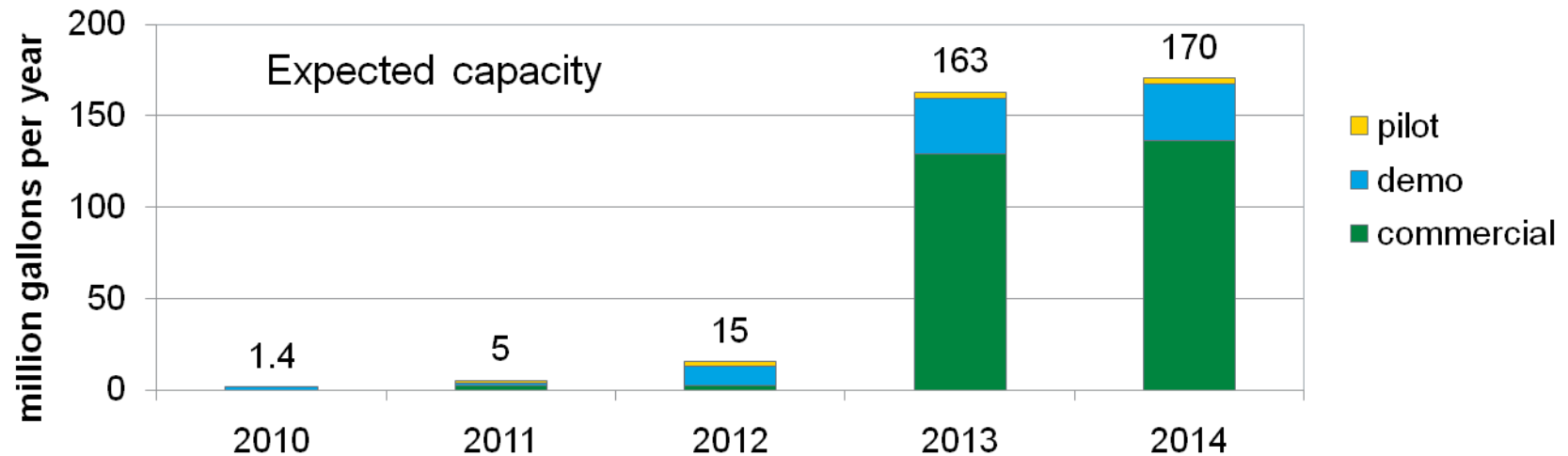
Systematically validating and deploying technology at first-of-a-kind facilities

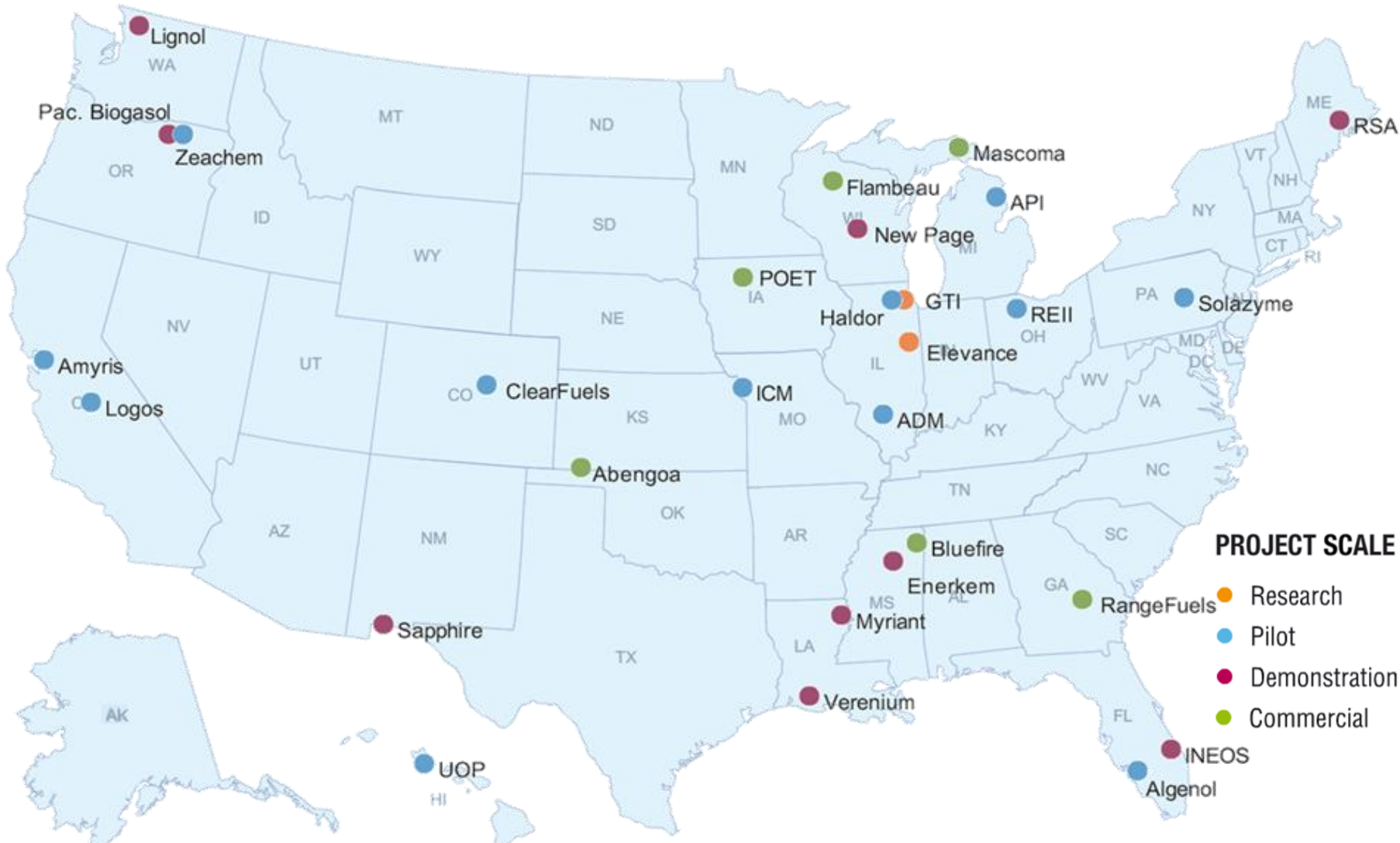
Evaluating vehicle emissions, performance, and deployment options

Providing a clean, domestic, dispatchable renewable source of power

Expanding portfolio beyond cellulosic ethanol to hydrocarbon fuels

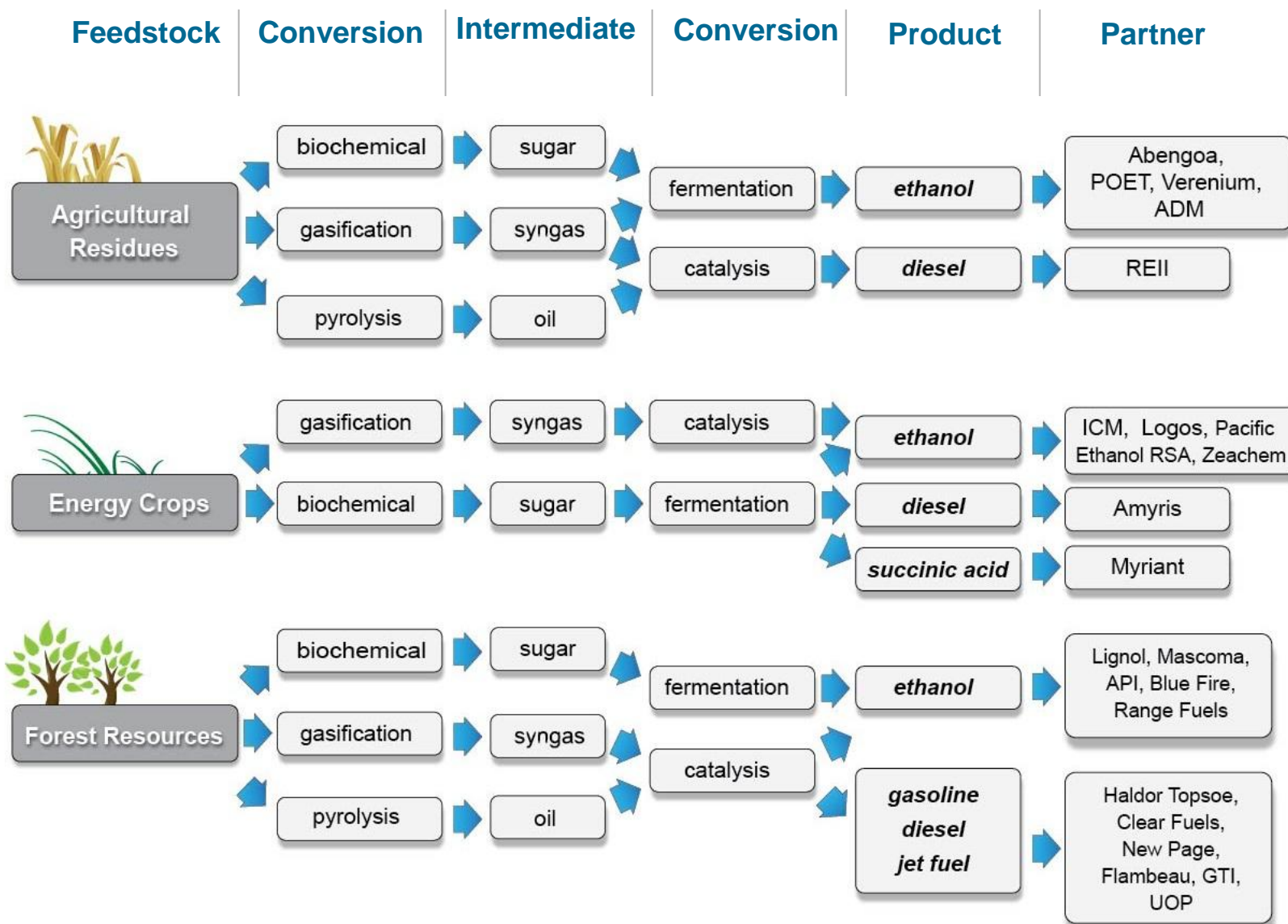
- **Investments broadened to include more hydrocarbon fuels, diverse biomass feedstocks, and geographical diversity:**
Over \$1B in DOE investments in 29 IBR projects
 - » 11 hydrocarbon fuels - \$326M
 - » 16 cellulosic ethanol - \$703M
 - » 1 butanol - \$30M
 - » 1 succinic acid - \$50M
- **These projects represent up to 170 million gallons in planned capacity of biofuels and products by 2014, with an industry cost share of about \$2.5B, including loan guarantees**





http://www.eere.energy.gov/biomass/integrated_biorefineries.html

Integrated Biorefinery Pathways



Integrated Biorefinery Pathways

