INL Biomass Research Timeline



Idaho's national laboratory has been conducting research related to bioenergy for decades. This snapshot of the lab's history in this area shows some of the research highlights.

-1990

between DOE and the U.S. Department of Agriculture initiates precision agriculture research, which involves GPS-guided systems, remote sensors and yield mapping.

1993: A memorandum of understanding

study selective harvesting using combines sets the stage for future biomass program.

1999: Cooperative Research and Development

Agreement (CRADA) signed with CNH Industrial to

separations for sugar beet processing) and NatureWorks (to study polymers from renewable resources).

2002: The lab's work expands to include harvest

and collection studies, biomechanics laboratory

testing and separation of components.

with Amalgamated Research (to study membrane

2001: Researchers win grants for projects

\$35 per dry ton by 2012. INL research expands into chemistry and value of feedstocks.

delivering biomass feedstocks to biorefineries for

2005: DOE goal drives research aimed at

2012: Research broadens to focus on an array

energy crops). An agreement is signed with Origin

Oil (later renamed Origin Clear) to develop biofuels

of feedstocks (wood, municipal solid waste,

integrated modular biomass feedstock processing

system — the Process Demonstration Unit (PDU).

2009: Construction begins at INL's North

Boulevard Annex to create a full-scale, fully

from algae.

2016: DOE releases "Regional Feedstock Partnership Summary Report: Enabling the Billion-Ton Vision" (co-authored by INL) summarizing research suggesting that the

2014: Biomass Feedstock National User

Facility attracts its first users.

nation's abundant supply of corn stover could be sustainably harvested as a bioenergy feedstock.

2017: INL expertise and equipment helps

produce the biocoal necessary to fuel a

5,000-ton test burn at Portland General

Electric's Boardman coal plant.

