Whole Algae Hydrothermal Liquefaction: 2014 State of Technology

TECHNICAL REPORT · Sun Jun 01 00:00:00 EDT 2014

DOI: https://doi.org/10.2172/1165327 · OSTI ID: 1165327

Jones, Susanne B. ^[1]; Zhu, Yunhua ^[1]; Snowden-Swan, Lesley J. ^[1]; Anderson, Daniel B. ^[1]; Hallen, Richard T. ^[1]; Schmidt, Andrew J. ^[1]; Albrecht, Karl A. ^[1]; Elliott, Douglas C. ^[1]

- 1. Pacific Northwest National Laboratory (PNNL), Richland, WA (United States)
- + Show Author Affiliations

This report describes the base case yields and operating conditions for converting whole microalgae via hydrothermal liquefaction and upgrading to liquid fuels. This serves as the basis against which future technical improvements will be measured.

Research Organization:

Pacific Northwest National Laboratory (PNNL), Richland, WA (United States)

Sponsoring Organization:

USDOE National Nuclear Security Administration (NNSA)

DOE Contract Number:

AC05-76RL01830

OSTI ID:

1165327

Report Number(s):

PNNL--23867; BM0108010

Country of Publication:

United States

Language:

English

Similar Records

Whole Algae Hydrothermal Liquefaction Technology Pathway

Technical Report Thu Feb 28 23:00:00 EST 2013 OSTI

ID: 1076659

Related Subjects

AHTL

ALGAE

BIOMASS

CHG

Biddy, Mary; Davis, Ryan; Jones, Susanne

Whole Algae Hydrothermal Liquefaction Technology Pathway

Technical Report · Thu Feb 28 23:00:00 EST 2013 · OSTI

ID: 1073584

Biddy, Mary J.; Davis, Ryan; Jones, Susanne B.; +1 more

Development of Hydrothermal Liquefaction and Upgrading Technologies for Lipid-Extracted Algae Conversion to Liquid Fuels

Journal Article · Tue Oct 01 00:00:00 EDT 2013 · Algal

Research, 2(4):455-464 · OSTI ID: 1129370

Zhu, Yunhua; Albrecht, Karl O.; Elliott, Douglas C.; +2 more

ECONOMICS

HTL

SOT

algae

biomass

catalytic gasification

economics

hydrothermal liquefaction

hydrotreating

microalgae



Office of Scientific and Technical Information

Vulnerability Disclosure Program

₹ 🗶 🗅