WORLDWIDE REFINERY PROCESSING REVIEW

Monitoring Technology Development and Competition in One Single Source

Second Quarter 2020

Hydrocracking

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1Q, 2Q, 3Q, 4Q...(the) first, second, third, and fourth quarters, respectively
AAA .....American Automobile Association (US)
ANS .....Alaskan North Slope crude
API.....American Petroleum Institute (US)
ARA.....Antwerp, Rotterdam, Amsterdam
ASTM.....American Society for Testing & Materials
b or bbl.....barrel(s)
B .....billion
boe .....barrel(s) of oil equivalent
CA .....California
CAA.....Clean Air Act (US)
CARB .....California Air Resources Board
cf.....cubic foot, cubic feet
cfr.....cost and freight
cif.....cost, insurance, and freight
Concawe .....Conservation of Clean Air and Water Europe
CIS.....Commonwealth of Independent States
CNG.....compressed natural gas
cst.....centistoke
d.....day
DOE.....Department of Energy
EEC .....European Economic Community
EIA.....US Energy Information Administration
EPA .....US Environmental Protection Agency
EPC(M).....engineering, procurement, and construction (management)
EU15.....15 original EU members
EU25.....EU15 and the 10 new members admitted in May 2004
EUROPIA.....European Petroleum Industry Association (Brussels)
FCV .....fuel cell vehicle
fd.....free delivered
FEED .....front-end engineering design
fob.....free on board
gal .....gallon
GTL .....gas to liquid(s)
h.....hour
H1 or H2.....first or second half of the year
ICE.....Int'l Commodity Exchange (UK—formerly Int'l Petroleum Exchange)
IEA .....Int'l Energy Agency (Paris-based)
IPAA.....Independent Petr. Assoc. of America
IPO.....initial public offering
j.v.....joint venture
LPG .....liquefied petroleum gas
K .....thousand
kL.....kiloliter
lb.....pound(s)
METI .....Ministry of Economy, Trade and Industry (Japan)
MM .....million
MOU.....memorandum of understanding
mpg.....miles per gallon
mt.....metric ton
MW.....megawatt
N.A. .....not applicable or not available
NAAQS .....national ambient air quality standards
NESCAUM.....Northeast States for Coordinated Air Use Management
NG .....natural gas
NGL.....natural gas liquid
NPRA .....National Petrochemical & Refiners Association (US)
NWE.....Northwest Europe
NYMEX .....New York Mercantile Exchange (US)
OECD .....Organization for Economic Cooperation & Development
OPEC.....Organization of the Petroleum Exporting Countries
OSHA .....Occupational, Safety and Health Administration (US)
PC .....petrochemical(s)
PM .....particulate matter
RBOB .....RFG before oxygenate blending
RFG .....reformulated gasoline
RMT.....refining, marketing, and transportation
RVP .....Reid vapor pressure
SCAQMD.....South Coast Air Quality Management District (California)
VLCC .....very large crude carrier
WTI .....West Texas Intermediate
y.....year
¢.....US cent(s)
€.....EU euro(s)
£.....UK pound(s)
$.....US dollar(s)
¥.....Japanese yen

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