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volume 4 • number 3 • Sept.15th, 2011 Newsletter

National Technical Reports Library

Energy & The Environment

DE20111013276
Clean Cities Now. Plugging In: Cities are Planning for Electric Vehicle Infrastructure.
Department of Energy, Washington, DC. Office of Energy Efficiency and Renewable Energy.
2011, 12p
Related Categories/Sub-Categories:
43E (Energy)
81B (Electric & Ion Propulsion)
85H (Road Transportation)
91 (Urban & Regional Technology & Development)
97G (Policies, Regulations & Studies)
97R (Environmental Studies)
Keywords: Electric vehicles, Charging stations, Renewable natural gas.

DE20111013299
High-Performance Buildings-Value, Messaging, Financial and Policy Mechanisms.
Pacific Northwest National Lab., Richland, WA.
2011, 92p
PNNL-20176
Related Categories/Sub-Categories:
89B (Architectural Design & Environmental Engineering)
97B (Energy Use, Supply, & Demand)
97G (Policies, Regulations & Studies)
Keywords: Energy efficiency, Market value, High performance buildings.

DE20111008109
Biofuel Impacts on Water.
Sandia National Labs., Albuquerque, NM.
2011, 31p
SAND2011-0168
Related Categories/Sub-Categories:
97F (Fuel Conversion Processes)
97K (Fuels)
97R (Environmental Studies)
Keywords: Biofuels, Environmental impacts, Gasoline.

DE20111013332
Reducing Freshwater Consumption at Coal-Fired Power Plants: Approaches Used Outside the United States.
National Energy Technology Lab., Pittsburgh, PA.
2011, 100p
DOE/NETL-2011/1493
Related Categories/Sub-Categories:
97G (Policies, Regulations & Studies)
97I (Electric Power Production)
97R (Environmental Studies)
Keywords: Water supplies, Gas turbines, Power plants.

DE20111007348
New Horizons for Hydrogen: Producing Hydrogen from Renewable Resources.
National Renewable Energy Lab., Golden, CO.
2011, 8p
NREL/BR-5600-49923
Related Categories/Sub-Categories:
97K (Fuels)
97R (Environmental Studies)
Keywords: Hydrogen, Renewable resources, Air pollution.

DE20111013336
Emerging Technologies and Approaches to Minimize Discharges into Lake Michigan. Phase 2, Module 3 Report.
Argonne National Lab., IL. Energy Systems Div.
2011, 178p
ANL-11/13
Related Categories/Sub-Categories:
68D (Water Pollution & Control)
97K (Fuels)
97R (Environmental Studies)
99B (Industrial Chemistry & Chemical Process Engineering)
Keywords: Petroleum refineries, Wastewater discharges, Lake Michigan.

Newsletter
National Technical Reports Library
Purpose: To bring you a sampling of the latest documents added to the NTIS Database and to help you gain a greater understanding of the wealth of scitech information available from the National Technical Information Service.

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U.S. Department of Commerce
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Alexandria, VA 22312

DE20111009368
Management of Water Extracted from Carbon Sequestration Projects.
Argonne National Lab., IL. Environmental Science Div.
2011, 50p
ANL/EVS/R-11/1
Related Categories/Sub-Categories:
97R (Environmental Studies)
Keywords: Carbon sequestration, Water management, Waste product utilization.

DE20111011704
Sandia National Laboratories, California Environmental Management System Program Manual.
Sandia National Labs., Albuquerque, NM.
2011, 73p
SAND2011-2124
Related Categories/Sub-Categories:
43F (Environment)
91A (Environmental Management & Planning)
97R (Environmental Studies)
Keywords: Energy management, Environmental management, Policies.

DE20111011768
State Support for Clean Energy Deployment: Lessons Learned for Potential Future Policy.
National Renewable Energy Lab., Golden, CO.
2011, 97p
NREL/SR-6A20-49340
Related Categories/Sub-Categories:
43E (Energy)
97B (Energy Use, Supply, & Demand)
97G (Policies, Regulations & Studies)
97R (Environmental Studies)
Keywords: Energy efficiency, Climate change, Renewable energy.

Key to Database Fields Used

The following NTIS database fields are used in this short listing of recently acquired technical reports.

NTIS Order Number
Title
Source
Report Year, Page Count
Report Number/ISBN13 (if available)
Related Categories/Sub-categories (where the document is also indexed)
Keywords

RSS Feeds are available in your choice of NTIS Subject Category. For information use the RSS link on the NTIS Homepage and look for the Category RSS Feeds button.

DE20111011828
U.S. Department of Energy Clean Cities Five-Year Strategic Plan. Reducing Petroleum Dependence in On-Road Transportation in the United States.
Argonne National Lab., IL. Cambridge Concord Associates, Concord, MA.
2011, 47p
ANL/ES/RP-69209
Related Categories/Sub-Categories:
43F (Environment)
68A (Air Pollution & Control)
91A (Environmental Management & Planning)
97K (Fuels), 97R (Environmental Studies)
Keywords: Petroleum consumption, Alternative fuels, Urban areas.

DE20111013068
China's Energy and Carbon Emissions Outlook to 2050.
Lawrence Berkeley National Lab., CA. Environmental Energy Technologies Div.
2011, 84p
Related Categories/Sub-Categories:
68A (Air Pollution & Control)
97B (Energy Use, Supply, & Demand)
97G (Policies, Regulations & Studies)
97R (Environmental Studies)
Keywords: Carbon dioxide, Emissions, Energy management.

PB2011113153
Evaluation of the Science Needs to Inform Decisions on Outer Continental Shelf Energy Development in the Chukchi and Beaufort Seas, Alaska.
Geological Survey, Reston, VA.
2011, 292p
USGS CIR-1370
Related Categories/Sub-Categories:
48A (Mineral Industries)
48F (Geology & Geophysics)
97R (Environmental Studies)
Keywords: Oil reserves, Natural gas, Petroleum, Geology.

DE20111013267
Feasibility Study of Economics and Performance of Solar Photovoltaics in the Commonwealth of Puerto Rico. A Study Prepared in Partnership with the Environmental Protection Agency for the RE-Powering America's Land Initiative: Siting Renewable Energy on Potentially Contaminated Land and Mine Sites.
National Renewable Energy Lab., Golden, CO.
2011, 75p
NREL/TP-6A20-49237
Related Categories/Sub-Categories:
68C (Solid Wastes Pollution & Control)
97N (Solar Energy)
97R (Environmental Studies)
Keywords: Solar energy, Sanitary landfills, Puerto Rico.

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www.federallabs.org

PB2011113421
Evaluation of the Use of Hindcast Model Data for OSRA in a Period of Rapidly Changing Conditions.
Science Applications International Corp., McLean, VA.
2011, 59p
OCS-BOEMRE-2011-032
Related Categories/Sub-Categories:
47C (Physical & Chemical Oceanography)
48A (Mineral Industries)
68D (Water Pollution & Control)
97R (Environmental Studies)
Keywords: Arctic Ocean, Climate change, Oil Spill Risk Analysis.

PB2011112703
Testing of Volatile and Nonvolatile Emissions from Advanced Technology Natural Gas Vehicles.
West Virginia Univ., Morgantown. Dept. of Mechanical and Aerospace Engineering. West Virginia Univ. Research Corp., Morgantown.
2011, 74p
CABRA-07-340
ARB/R11-923
Related Categories/Sub-Categories:
68G (Environmental Health & Safety)
97K (Fuels)
97R (Environmental Studies)
81J (Reciprocation & Rotating Combustion Engines)
Keywords: Natural gas engines, Exhaust emissions, Environmental health.

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- Connie Fritz, Science Librarian, RPI

Major Subject Categories

Category Codes* / Title		New for August Quantity**
41	Manufacturing Technology	41
43	Problem Solving Information for State & Local Governments	248
44	Health Care	133
45	Communication	52
46	Physics	131
47	Ocean Sciences & Technology	90
48	Natural Resources & Earth Sciences	273
49	Electrotechnology	47
50	Civil Engineering	90
51	Aeronautics & Aerodynamics	81
54	Astronomy & Astrophysics	28
55	Atmospheric Sciences	98
57	Medicine & Biology	438
62	Computers, Control & Information Theory	106
63	Detection & Countermeasures	56
68	Environmental Pollution & Control	323
70	Administration & Management	315
71	Materials Sciences	74
72	Mathematical Sciences	68
74	Military Sciences	277
75	Missile Technology	2
76	Navigation, Guidance, & Control	10
77	Nuclear Science & Technology	80
79	Ordnance	26
81	Combustion, Engines, & Propellants	31
82	Photography & Recording Devices	1
84	Space Technology	58
85	Transportation	131
88	Library & Information Sciences	52
89	Building Industry Technology	33
90	Government Inventions for Licensing	0
91	Urban & Regional Technology & Development	268
92	Behavior & Society	335
94	Industrial & Mechanical Engineering	37
95	Biomedical Technology & Human Factors	24
96	Business & Economics	201
97	Energy	165
98	Agriculture & Food	152
99	Chemistry	97

** For a listing of Scope Notes that defines the specific topical content for each category, go to http://www.ntis.gov/assets/pdf/scopenotes.pdf*

*** Quantities represent each new report assigned on average to 3-5 categories.*

PB2011113229
Air Quality Modeling Technical Support Document: Heavy-Duty Vehicle.
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
2011, 148p
EPA-454-R-11-004
See also PB2010-108681 (Light Duty Report).
Related Categories/Sub-Categories:
68A (Air Pollution & Control)
85H (Road Transportation)
97R (Environmental Studies)
Keywords: Air quality standards, Motor vehicles, Greenhouse gases.

PB2011113299
U.S. Agriculture and Forestry Greenhouse Gas Inventory: 1990-2008.
Department of Agriculture, Washington, DC. Office of the Chief Economist.
2011, 162p
USDA/OCE-TB-1930
See also PB2008-113471, report for years 1990-2005.
Related Categories/Sub-Categories:
55E (Physical Meteorology)
68A (Air Pollution & Control)
97K (Fuels)
97R (Environmental Studies)
Keywords: Greenhouse gases, Air pollution sources, Inventories.

Subject Category Codes/Classification

NTIS classifies citations into 39 subject categories. Each of these subject categories is divided into subcategories. This method provides sorting categories for both hard and soft sciences. All subject categories consist of three character codes: two numerics and one alpha character.The numeric codes represent entire categories the alpha codes are used to designate subcategories within these broad categories. The number of NTIS subcategories posted to an information product average from three to five, although there are some reports with more.

PB2011113428
Gulf of Mexico OCS, Oil and Gas Lease Sale: 2012. Central Planning Area Lease Sale 216/222, Draft Supplemental Environmental Impact Statement.
Bureau of Ocean Energy Management, Regulation and Enforcement, Washington, DC.
2011, 920p
OCS/EIS/EA-2011-027
BOEMRE-2011-027
Related Categories/Sub-Categories:
47 (Ocean Sciences & Technology)
48A (Mineral Industries)
97A (Reserves)
68H (Environmental Impact Statements)
97R (Environmental Studies)
Keywords: Gulf of Mexico, Offshore drilling, Leasing.

PB2011113887
Review of Transportation Fuel Life Cycle Analysis.
Life Cycle Associates, LLC, Portola Valley, CA.
2011, 194p
CRC-E-88
See also PB2003-100837, PB2003-100838.
Related Categories/Sub-Categories:
68A (Air Pollution & Control)
85H (Road Transportation)
97K (Fuels)
97R (Environmental Studies)
Keywords: Fuels, Life cycles, Soil Organic Carbon (SOC).

DE2010991558
Indian Renewable Energy Status Report: Background Report for DIREC 2010.
National Renewable Energy Lab., Golden, CO.
2010, 139p
NREL/TP-6A20-48948
Related Categories/Sub-Categories:
96G (Foreign Industry Economic Development)
97G (Policies, Regulations & Studies)
97O (Miscellaneous Energy Conversion & Storage)
97R (Environmental Studies)
Keywords: India, Renewable resources, Energy policies.

Photo: Architect of the Capitol

DE20111004829
Simulating Collisions for Hydrokinetic Turbines. FY2010 Annual Progress Report.
Pacific Northwest National Lab., Richland, WA.
2010, 27p
PNNL-19860
Related Categories/Sub-Categories:
97I (Electric Power Production)
97R (Environmental Studies)
Keywords: Turbulent flow, Aquatic organisms, Hydro energy.

DE20111009754
Environmental Risk Evaluation System (ERES) for Offshore Wind. Mock-Up of ERES Fiscal Year 2010 Progress Report.
Pacific Northwest National Lab., Richland, WA.
2010, 68p
PNNL-20020
Related Categories/Sub-Categories:
97A (Reserves)
97G (Policies, Regulations & Studies)
97O (Miscellaneous Energy Conversion & Storage)
97R (Environmental Studies)
Keywords: Wind energy, Offshore sites, Environmental impacts.

DE20111010951
Intelligent Bioreactor Management Information System (IBM-IS) for Mitigation of Greenhouse Gas Emissions, (Final Report).
Delaware Univ., Newark.
2010, 121p
Related Categories/Sub-Categories:
68A (Air Pollution & Control)
68C (Solid Wastes Pollution & Control)
97R (Environmental Studies)
Keywords: Bioreactors, Waste management, Greenhouse gases.

DE20111013255
Hopewell Beneficial CO2 Capture for Production of Fuels, Fertilizer and Energy.
Honeywell, Inc., Phoenix, AZ.
2010, 58p
Related Categories/Sub-Categories:
57B (Biochemistry)
97R (Environmental Studies)
99B (Industrial Chemistry & Chemical Process Engineering)
Keywords: Carbon dioxide sequestration, Algae, Stack gases.

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While you can find information on virtually any subject on the web, there's no guarantee that the information is accurate — or that it has been published by a legitimate source. NTIS undergoes a rigorous process to ensure that all the information we offer is authentic and credible. This integrity, along with the breadth and depth of our collection, is why NTIS is regarded as the nation's preeminent source of government information.

DE20111013258
Novel High Capacity Oligomers for Low Cost CO2 Capture. Final Technical Report Reporting Period 10-01-08 to 09-30-10.
General Electric Co., Schenectady, NY. Global Research Center. Pittsburgh Univ., PA. Dept. of Chemical and Petroleum Engineering.
2010, 213p
Related Categories/Sub-Categories:
68A (Air Pollution & Control)
97R (Environmental Studies)
99B (Industrial Chemistry & Chemical Process Engineering)
Keywords: Carbon dioxide, Chemisorptions, Fossil-fuel power plants.

DE20111013266
Survey and Down-Selection of Acid Gas Removal Systems for the Thermochemical Conversion of Biomass to Ethanol with a Detailed Analysis of an MDEA System. Task 1: Acid Gas Removal Technology Survey and Screening for Thermochemical Ethanol Synthesis. Task 2: Detailed MDEA Process Analysis.
National Renewable Energy Lab., Golden, CO.
2011, 96p
NREL/SR-5100-50482
Related Categories/Sub-Categories:
68A (Air Pollution & Control)
97F (Fuel Conversion Processes)
97R (Environmental Studies)
99B (Industrial Chemistry & Chemical Process Engineering)
Keywords: Biomass, Ethanol, Syngas.

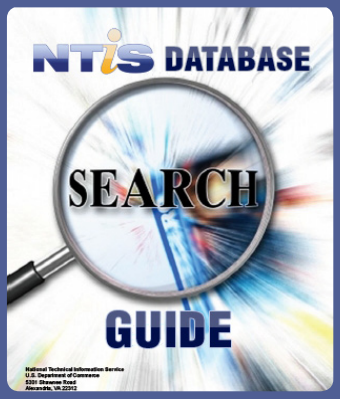
DE2011992508
RCRA Part A Permit Application for Waste Management Activities at the Nevada Test Site, Part B Permit Application Hazardous Waste Storage Unit, Nevada Test Site, and Part B Permit Application - Explosives Ordnance Disposal Unit (EODU).
National Security Technologies, LLC., Las Vegas, NV.
2010, 449p
DOE/NV/25946--1015
Related Categories/Sub-Categories:
68C (Solid Wastes Pollution & Control)
79A (Ammunition, Explosives, & Pyrotechnics)
81A (Combustion & Ignition)
97R (Environmental Studies)
Keywords: Radioactive waste management, Explosives, License applications.

PB2011105287
Gasoline Composition Regulations Affecting LUST Sites.
Environmental Protection Agency, Athens, GA. National Exposure Research Lab.
2010, 39p
EPA/600/R-10/001
Related Categories/Sub-Categories:
43F (Environment)
68D (Water Pollution & Control)
91A (Environmental Management & Planning)
97K (Fuels)
97R (Environmental Studies)
99B (Industrial Chemistry & Chemical Process Engineering)
Keywords: Underground storage tanks, Leakage, Gasoline.

PB2011112538
Sampling Protocol for Post-Landfall Deepwater Horizon Oil Release, Gulf of Mexico, 2010. Addendum to Standard USGS Methods for the Collection of Water, Sediment, Benthic Invertebrates, and Microorganisms.
AET Environmental Inc., Denver, CO. TEC Inc.. Charlottesville, VA.
2010, 162p
USGS-OFR-2010-1191
Related Categories/Sub-Categories:
43F (Environment)
47 (Ocean Sciences & Technology)
68D (Water Pollution & Control)
91A (Environmental Management & Planning)
97R (Environmental Studies)
Keywords: Oil spills, Water pollution monitoring, Water sampling protocols.

PB2011113712
Final Scoping Report for Environmental Impact Statement on Effects of Oil & Gas Activities (Seismic and Exploratory Drilling) in the Arctic Ocean.
National Marine Fisheries Service, Silver Spring, MD. Office of Protected Resources.
2010, 204p
Related Categories/Sub-Categories:
47D (Biological Oceanography)
47E (Marine Geophysics & Geology)
48B (Natural Resource Management)
68H (Environmental Impact Statements)
97R (Environmental Studies)
Keywords: Environmental impact statements, Arctic Ocean, Drilling.

PB2011108364
Deepwater Horizon Dispersant Use Meeting Report May 26-27, 2010.
New Hampshire Univ., Durham. National Oceanic and Atmospheric Administration, Seattle, WA. Office of Response and Restoration.
2010, 108p
Related Categories/Sub-Categories:
57H (Ecology)
68D (Water Pollution & Control)
97K (Fuels)
97R (Environmental Studies)
Keywords: Oil spills, Dispersants, Biological effects.



Just Revised: the NTIS Database Search Guide

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Title Index - For NTRL Users

The following is a list of the titles included in this month's issue, without links to the NTIS Website. The list is in alphabetical order.

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PB2011113229	85	Air Quality Modeling Technical Support Document: Heavy-Duty Vehicle Greenhouse Gas Emission Standards Final Rule.
DE20111008109	97	Biofuel Impacts on Water.
DE20111013068	97	China's Energy and Carbon Emissions Outlook to 2050.
DE20111013276	81	Clean Cities Now. Plugging In: Cities are Planning for Electric Vehicle Infrastructure.
PB2011108364	57	Deepwater Horizon Dispersant Use Meeting Report May 26-27, 2010.
DE20111013336	68	Emerging Technologies and Approaches to Minimize Discharges into Lake Michigan. Phase 2, Module 3 Report.
DE20111009754	97	Environmental Risk Evaluation System (ERES) for Offshore Wind. Mock-Up of ERES Fiscal Year 2010 Progress Report.
PB2011113153	48	Evaluation of the Science Needs to Inform Decisions on Outer Continental Shelf Energy Development in the Chukchi and Beaufort Seas, Alaska.
PB2011113421	47	Evaluation of the Use of Hindcast Model Data for OSRA in a Period of Rapidly Changing Conditions.
DE20111013267	68	Feasibility Study of Economics and Performance of Solar Photovoltaics in the Commonwealth of Puerto Rico. A Study Prepared in Partnership with the Environmental Protection Agency for the RE-Powering America's Land Initiative: Siting Renewable Energy on Potentially Contaminated Land and Mine Sites.
PB2011113712	68	Final Scoping Report for Environmental Impact Statement on Effects of Oil & Gas Activities (Seismic and Exploratory Drilling) in the Arctic Ocean.
PB2011105287	99	Gasoline Composition Regulations Affecting LUST Sites.
PB2011113428	48	Gulf of Mexico OCS, Oil and Gas Lease Sale: 2012. Central Planning Area Lease Sale 216/222, Draft Supplemental Environmental Impact Statement.
DE20111013299	89	High-Performance Buildings-Value, Messaging, Financial and Policy Mechanisms.
DE20111013255	57	Hopewell Beneficial CO2 Capture for Production of Fuels, Fertilizer and Energy.
DE2010991558	96	Indian Renewable Energy Status Report: Background Report for DIREC 2010.
DE20111010951	68	Intelligent Bioreactor Management Information System (IBM-IS) for Mitigation of Greenhouse Gas Emissions, (Final Report).
DE20111009368	97	Management of Water Extracted from Carbon Sequestration Projects.
DE20111007348	97	New Horizons for Hydrogen: Producing Hydrogen from Renewable Resources.
DE20111013258	99	Novel High Capacity Oligomers for Low Cost CO2 Capture. Final Technical Report Reporting Period 10-01-08 to 09-30-10.
DE2011992508	79	RCRA Part A Permit Application for Waste Management Activities at the Nevada Test Site, Part B Permit Application Hazardous Waste Storage Unit, Nevada Test Site, and Part B Permit Application - Explosives Ordnance Disposal Unit (EODU).
DE20111013332	97	Reducing Freshwater Consumption at Coal-Fired Power Plants: Approaches Used Outside the United States.
PB2011113887	68	Review of Transportation Fuel Life Cycle Analysis.
PB2011112538	47	Sampling Protocol for Post-Landfall Deepwater Horizon Oil Release, Gulf of Mexico, 2010. Addendum to Standard USGS Methods for the Collection of Water, Sediment, Benthic Invertebrates, and Microorganisms.
DE20111011704	43	Sandia National Laboratories, California Environmental Management System Program Manual.
DE20111004829	97	Simulating Collisions for Hydrokinetic Turbines. FY2010 Annual Progress Report.
DE20111011768	97	State Support for Clean Energy Deployment: Lessons Learned for Potential Future Policy.
DE20111013266	99	Survey and Down-Selection of Acid Gas Removal Systems for the Thermochemical Conversion of Biomass to Ethanol with a Detailed Analysis of an MDEA System. Task 1: Acid Gas Removal Technology Survey and Screening for Thermochemical Ethanol Synthesis. Task 2: Detailed MDEA Process Analysis.
PB2011112703	81	Testing of Volatile and Nonvolatile Emissions from Advanced Technology Natural Gas Vehicles.
PB2011113299	55	U.S. Agriculture and Forestry Greenhouse Gas Inventory: 1990-2008.
DE20111011828	68	U.S. Department of Energy Clean Cities Five-Year Strategic Plan. Reducing Petroleum Dependence in On-Road Transportation in the United States.