

## 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.

## NTIS Technical Reports *Newsletter*

**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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**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.

**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/EP-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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**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.

**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

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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/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.

**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.

Photo: Architect of the Capitol



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**DE20111013258**

Novel High Capacity Oligomers for Low Cost CO<sub>2</sub> 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:

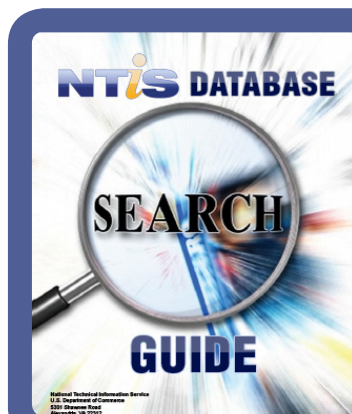
57H (Ecology)

68D (Water Pollution & Control)

97K (Fuels)

97R (Environmental Studies)

**Keywords:** Oil spills, Dispersants, Biological effects.



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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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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.
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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.