

## CLEAN ENERGY (GENERAL)

### DE20121036907

Thirty-five Years of Innovation: The National Renewable Energy Laboratory Leads the Way to a Clean Energy Future.

National Renewable Energy Lab., Golden, CO.  
2012, 24p

NREL/MK-6A42-53758

#### Related Categories/Subcategories

97O (Miscellaneous Energy Conversion & Storage)  
70E (Research Program Administration & Technology Transfer)

**Keywords:** National Renewable Energy Laboratory, History, Innovation.

### DE20121054409

NREL: A Year in Clean Energy Innovations. A Review of NREL's 2011 Feature Stories.  
National Renewable Energy Lab., Golden, CO.  
2012, 124p  
NREL/MK-6A41-539201

#### Related Categories/Subcategories

97B (Energy Use, Supply, & Demand)  
97G (Policies, Regulations & Studies)  
97O (Miscellaneous Energy Conversion & Storage)

**Keywords:** Energy conservation, Consumption, Research programs.

### PB2013106243

United States Conference of Mayors. Clean Energy Solutions for America's Cities.  
United States Conference of Mayors, Washington, DC.  
2013, 16p

#### Related Categories/Subcategories

97B (Energy Use, Supply, & Demand)  
97G (Policies, Regulations & Studies)  
55 (Atmospheric Sciences)  
68A (Air Pollution & Control)  
92E (International Relations)

**Keywords:** Energy resources, Climate change, Energy demand.

### N20120015399

GreenLab Research Facility: A Micro-Grid Integrating Production, Consumption and Storage of Clean Energy.  
National Aeronautics and Space Administration, Cleveland, OH. NASA John H. Glenn Research Center at Lewis Field.  
2012, 18p

NASA/TM-2012-217719, E-18430

#### Related Categories/Subcategories

97B (Energy Use, Supply, & Demand)  
97K (Fuels)  
97O (Miscellaneous Energy Conversion & Storage)

**Keywords:** Energy consumption, Energy storage, Clean energy.



### PB2012109986

Analysis of the Clean Energy Standard Act of 2012. Energy Information Administration, Washington, DC. Independent Statistics and Analysis.  
2012, 44p

#### Related Categories/Subcategories

97G (Policies, Regulations & Studies)  
97B (Energy Use, Supply, & Demand)  
68A (Air Pollution & Control)

**Keywords:** Clean energy, Electricity sales, Clean energy resources.

### DE20131069190

NREL: A Year in Clean Energy Innovations. A Review of NREL's 2012 Feature Stories.  
National Renewable Energy Lab., Golden, CO.  
2013, 112p  
NREL/MK-6A41-57601

#### Related Categories/Subcategories

97G (Policies, Regulations & Studies), 97O (Miscellaneous Energy Conversion & Storage)  
**Keywords:** Renewable energy sources, Energy efficiency, Commercialization.

### DE20121037932

Hawaii Clean Energy Initiative (HCEI) Scenario Analysis: Quantitative Estimates Used to Facilitate Working Group Discussions (2008-2010).  
National Renewable Energy Lab., Golden, CO.  
2012, 233p  
NREL/SR-7A40-52442

#### Related Categories/Subcategories

97G (Policies, Regulations & Studies)  
**Keywords:** Renewable energy sources, Hawaii, Cost estimates.

### Newsletter

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**DE20121046265**

Navajo Generating Station and Clean-Energy Alternatives: Options for Renewables. National Renewable Energy Lab., Golden, CO. 2012, 40p  
NREL/TP-6A20-54706

**Related Categories/Subcategories**

97B (Energy Use, Supply, & Demand)  
97G (Policies, Regulations & Studies)  
**Keywords:** Renewable energy sources, Compliance, Alternatives.

## SOLAR ENERGY

**ADA554684**

Solar Energy Development on Department of Defense Installations in the Mojave and Colorado Deserts. ICF Kaiser International, Inc., Fairfax, VA. 2012, 533p

**Related Categories/Subcategories**

97N (Solar Energy)  
97I (Electric Power Production)  
74E (Logistics, Military Facilities, & Supplies)  
**Keywords:** Military facilities, Solar energy, California.

**DE20121038162**

Solar Energy Grid Integration Systems: Final Report of the Princeton Power Systems, Inc. Development of the 100kW Demand Response Inverter (DRI). Sandia National Labs., Albuquerque, NM. 2012, 122p  
SAND2012-1248

**Related Categories/Subcategories**

97N (Solar Energy)  
97O (Miscellaneous Energy Conversion & Storage)  
**Keywords:** Solar energy, Power transmission, Communications.

**DE20121038238**

Solar Energy Grid Integration Systems: Final Report of the Florida Energy Center Team. Sandia National Labs., Albuquerque, NM. 2012, 92p  
SAND2012-1395

**Related Categories/Subcategories**

97N (Solar Energy)  
97O (Miscellaneous Energy Conversion & Storage)  
**Keywords:** Solar energy, Commercialization, Design, Electric utilities.

**DE20131062178**

Solar Energy of the North. Department of Energy, Washington, DC. Div. of Solar Technology. 2012, 8p

**Related Categories/Subcategories**

97N (Solar Energy), 97B (Energy Use, Supply, & Demand)  
**Keywords:** Solar energy, Buildings, Data collection.

**N20120016614**

Nanostructured Solar Irradiation Control Materials for Solar Energy Conversion. National Aeronautics and Space Administration, Langley Station, VA. Langley Research Center. 2012, 9p  
NF1676L-15443

**Related Categories/Subcategories**

71F (Composite Materials)  
97N (Solar Energy)  
**Keywords:** Nanoparticles, Solar energy conversion, \*Polymers.

**PB2013101189**

Solar Energy: Federal Initiatives Overlap but Take Measures to Avoid Duplication. Government Accountability Office, Washington, DC. 2012, 58p  
GAO-12-843

**Related Categories/Subcategories**

97N (Solar Energy)  
41 (Manufacturing Technology)  
**Keywords:** Solar energy, Renewable energy, Federal agencies.

**DE20121046285**

Integration Costs: Are They Unique to Wind and Solar Energy. National Renewable Energy Lab., Golden, CO. 2012, 12p  
NREL/CP-5500-54905

**Related Categories/Subcategories**

97N (Solar Energy)  
97O (Miscellaneous Energy Conversion & Storage)  
**Keywords:** Solar energy, Wind power, Costs.

**PB2012105651**

Harnessing Solar Energy for Off-Grid Rural Electrification. Technology Brief. Agency for International Development, Washington, DC.\*Department of Energy, Washington, DC. 2012, 8p

**Related Categories/Subcategories**

97G (Policies, Regulations & Studies)  
97N (Solar Energy)  
97I (Electric Power Production)  
**Keywords:** Rural areas, Solar energy, Electric power.

### FEDERAL LABORATORY CONSORTIUM FOR TECHNOLOGY TRANSFER

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[www.federallabs.org](http://www.federallabs.org)

**PB2013101055**

Assessing the Structural, Driver and Economic Impact of Traffic Pole Mounted Wind Power Generator and Solar Panel Hybrid System. Nebraska Univ.-Lincoln. Mid-America Transportation Center. 2012, 80p  
MATC-MST-25-1121-0001-420

**Related Categories/Subcategories**

50A (Highway Engineering)  
85H (Road Transportation),  
43G (Transportation)  
97O (Miscellaneous Energy Conversion & Storage)  
**Keywords:** Traffic signal supports, Wind turbines, Hybrid systems.

## WIND POWER

**PB2013101055**

Assessing the Structural, Driver and Economic Impact of Traffic Pole Mounted Wind Power Generator and Solar Panel Hybrid System. (see entry immediately above in Solar Energy)

**DE20121046285**

Integration Costs: Are They Unique to Wind and Solar Energy. (see entry immediately above in Solar Energy)

**ADA561918**

Emulation of Wind Power with a DC Machine to Provide Input to a Doubly-Fed Induction Machine. Naval Postgraduate School, Monterey, CA. 2012, 91p

**Related Categories/Subcategories**

49 (Electrotechnology)  
**Keywords:** Direct current, Electric motors, Power, Theses, Wind machines.

### 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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### Major Subject Categories

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41 Manufacturing Technology.....	43
43 Problem Solving Information for State & Local Governments.....	141
44 Health Care.....	196
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46 Physics.....	266
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48 Natural Resources & Earth Sciences.....	422
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55 Atmospheric Sciences.....	63
57 Medicine & Biology.....	709
62 Computers, Control & Information Theory.....	173
63 Detection & Countermeasures.....	50
68 Environmental Pollution & Control.....	221
70 Administration & Management.....	158
71 Materials Sciences.....	105
72 Mathematical Sciences.....	101
74 Military Sciences.....	304
75 Missile Technology.....	3
76 Navigation, Guidance, & Control.....	13
77 Nuclear Science & Technology.....	69
79 Ordnance.....	42
81 Combustion, Engines, & Propellants.....	58
82 Photography & Recording Devices.....	8
84 Space Technology.....	130
85 Transportation.....	153
88 Library & Information Sciences.....	35
89 Building Industry Technology.....	46
90 Government Inventions for Licensing.....	0
91 Urban & Regional Technology & Development.....	296
92 Behavior & Society.....	405
94 Industrial & Mechanical Engineering.....	56
95 Biomedical Technology & Human Factors Engineering.....	51
96 Business & Economics.....	163
97 Energy.....	164
98 Agriculture & Food.....	44
99 Chemistry.....	82

\* *Scope Notes define the specific topical content for each category;*

<http://www.ntis.gov/pdf/scopenotes.pdf>

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

#### DE20121033036

Long-Term Wind Power Variability.  
National Renewable Energy Lab., Golden, CO.  
2012, 39p  
NREL/TP-5500-53637

#### Related Categories/Subcategories

97O (Miscellaneous Energy Conversion & Storage)  
97G (Policies, Regulations & Studies)  
**Keywords:** Wind power, Communications, Minnesota.

#### DE20121045741

Test Cases for Wind Power Plant Dynamic Models on Real-Time Digital Simulator.  
National Renewable Energy Lab., Golden, CO.  
2012, 9p  
NREL/CP-5500-55314

#### Related Categories/Subcategories

97O (Miscellaneous Energy Conversion & Storage)  
**Keywords:** Wind power plants, Commissioning, Compatibility.

#### DE20121046310

Understanding Inertial and Frequency Response of Wind Power Plants.  
National Renewable Energy Lab., Golden, CO.\*\*Texas Univ., Austin.  
2012, 10p  
NREL/CP-5500-53535

#### Related Categories/Subcategories

97O (Miscellaneous Energy Conversion & Storage)  
**Keywords:** Wind turbines, Frequency response, Inertial response.

#### DE20121052905

Wind Power Opportunities in St. Thomas, USVI: A Site-Specific Evaluation and Analysis.  
National Renewable Energy Lab., Golden, CO.  
2012, 100p  
NREL/TP-7A20-55415

#### Related Categories/Subcategories

97O (Miscellaneous Energy Conversion & Storage)  
97G (Policies, Regulations & Studies)  
**Keywords:** Wind power, Virgin Islands, Assets.

#### N20120011876

Hydraulic Tidal and Wind Power System Sizing.  
California Inst. of Tech., Pasadena. Jet Propulsion Lab.  
2012, 29p  
JPL-PUBL-12-10

#### Related Categories/Subcategories

97O (Miscellaneous Energy Conversion & Storage)  
**Keywords:** Electricity, Offshore energy sources, Windpower utilization.

### 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.

## HYDROKINETIC POWER

### DE20121045750

Doubly Fed Induction Generator in an Offshore Wind Power Plant Operated at Rated V/Hz.

National Renewable Energy Lab., Golden, CO.

2012, 10p

NREL/CP-5500-55573

#### Related Categories/Subcategories

97O (Miscellaneous Energy Conversion & Storage)

97E (Electric Power Transmission)

Keywords: Wind power plants, Cables, Direct current.

### DE20131067913

Synchronized Phasor Data for Analyzing Wind Power Plant Dynamic Behavior and Model Validation.

National Renewable Energy Lab., Golden, CO.

2013, 38p

NREL/TP-5500-57342

#### Related Categories/Subcategories

97O (Miscellaneous Energy Conversion & Storage)

97I (Electric Power Production)

Keywords: Wind power plants, Electric power, Implementation.

### DE20121037739

Greater Sage-Grouse Habitat Use and Population Demographics at the Simpson Ridge Wind Resource Area, Carbon County, Wyoming.

Western EcoSystems Technology, Inc., Cheyenne, WY.\*\*Department of Energy, Golden, CO.

2012, 83p

#### Related Categories/Subcategories

48B (Natural Resource Management)

57H (Ecology),

97O (Miscellaneous Energy Conversion & Storage)

97R (Environmental Studies)

Keywords: Birds, Habitat, Wind turbines.

### PB2013100433

Model of Whooping Crane Energetics as Foundation for Development of a Method to Assess Potential Take during Migration.

2012, 22p

USGS-OFR-2012-1156

#### Related Categories/Subcategories

48B (Natural Resource Management)

57H (Ecology)

57Z (Zoology)

97O (Miscellaneous Energy Conversion & Storage)

Keywords: Birds, Migration, Endangered species.

### DE20121035555

Siting Study for a Hydrokinetic Energy Project Located Offshore Southeastern Florida: Protocols for Survey Methodology for Offshore Marine Hydrokinetic Energy Projects.

Department of Energy, Golden, CO. Golden Field Office.\*\*Harbor Branch Oceanographic Institution, Inc., Fort Pierce, FL.

2012, 100p

DOE/EE0002655

#### Related Categories/Subcategories

97B (Energy Use, Supply, & Demand)

97O (Miscellaneous Energy Conversion & Storage)

Keywords: Marine energy, Hydrokinetic energy, Atlantic Ocean.

### DE20121037662

Laboratory Experiments on the Effects of Blade Strike from Hydrokinetic Energy Technologies on Larval and Juvenile Freshwater Fishes. FY 2011 Annual Report.

Oak Ridge National Lab., TN.

2012, 43p

ORNL/TM-2012/108

#### Related Categories/Subcategories

97R (Environmental Studies)

97I (Electric Power Production)

98F (Fisheries & Aquaculture), 50B (Civil Engineering)

Keywords: Fishes, Dams, Mortality, Mississippi River.

### DE20121039800

Investigating the Influence of the Added Mass Effect to Marine Hydrokinetic Horizontal-Axis Turbines Using a General Dynamic Wake Wind Turbine Code.

Pennsylvania State Univ., State College.\*\*National Renewable Energy Lab., Golden, CO.

2012, 12p

#### Related Categories/Subcategories

97O (Miscellaneous Energy Conversion & Storage)

Keywords: Wind turbines, Acceleration, Aerodynamics.

### DE20121039434

Study of the Acoustic Effects of Hydrokinetic Tidal Turbines in Admiralty Inlet, Puget Sound.

Snohomish County Public Utility District No.

1, Everett, WA.\*\*Oregon State Univ., Corvallis.

Northwest National Marine Renewable Energy Center.\*\*Saint Andrews Univ. (Scotland).

Sea Mammal Research Unit and School of

Biology.\*\*Pacific Northwest National Lab.,

Richland, WA.

2012, 80p

#### Related Categories/Subcategories

68 (Environmental Pollution & Control)

68B (Noise Pollution & Control), 63A (Acoustic

Detection)

97O (Miscellaneous Energy Conversion & Storage)

47D (Biological Oceanography)

Keywords: Acoustics, Environmental effects,

Hydrokinetic energy.

U.S. Department of Commerce

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Agriculture and Food  
Biomedical Technology and Human Factor Engineering  
Building Industry Technology  
Business & Economics  
Civil Engineering  
Communication  
Computers, Control & Information Theory  
Electrotechnology  
Energy  
Environmental Pollution and Control  
Government Inventions for Licensing  
Health Care  
Manufacturing Technology  
Materials Sciences  
Ocean Sciences and Technology  
Transportation

Photo: Architect of the Capitol



**ADA565000**

Maximum Power Point Tracking Control of Hydrokinetic Turbine and Low-speed High-Thrust Permanent Magnet Generator Design. Missouri Univ. of Science and Technology, Rolla, MO. 2012, 97p

**Related Categories/Subcategories**

41J (Tooling, Machinery, & Tools)  
97O (Miscellaneous Energy Conversion & Storage)  
Keywords: Hydrokinetic turbines, Direct current, Electric power.

**N20120011876**

Hydraulic Tidal and Wind Power System Sizing. (see entry under Wind Power above)

**BIOFUELS****DE20111015131**

Investigation of the Potential for Biofuel Blends in Residual Oil-Fired Power Generation Units as an Emissions Reduction Strategy for New York State. Brookhaven National Lab., Upton, NY. 2009, 24p

**Related Categories/Subcategories**

97R (Environmental Studies)  
97K (Fuels)  
91A (Environmental Management & Planning),  
43F (Environment)  
Keywords: Biofuels, Boilers, Petroleum residues.

**DE2003815046**

Economically and Environmentally Friendly Production of Fuel and Power from Hog Manure Using GTI's HIMET(SM) Two-Stage Anaerobic Digestion Technology. Final Technical Report. Institute of Gas Technology, Des Plaines, IL.\*\*Department of Energy, Golden, CO. Golden Field Office. 2003, 83p

**Related Categories/Subcategories**

97K (Fuels)  
97I (Electric Power Production)  
97R (Environmental Studies)  
99B (Industrial Chemistry & Chemical Process Engineering)  
68 (Environmental Pollution & Control)  
98 (Agriculture & Food)  
Keywords: Anaerobic digestion, Biogas, Swine.

**DE20131067946**

Feasibility Study of Anaerobic Digestion of Food Waste in St. Bernard, Louisiana. 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. 2013, 48p

**Related Categories/Subcategories**

68C (Solid Wastes Pollution & Control)  
97K (Fuels), 97R (Environmental Studies)  
Keywords: Anaerobic digestion, Food wastes, Biomass fuels.

**DE20131059145**

Biomass Gasification Technology Assessment. Consolidated Report. National Renewable Energy Lab., Golden, CO. 2012, 358p  
NREL/SR-5100-57085

**Related Categories/Subcategories**

97K (Fuels)  
97F (Fuel Conversion Processes)  
Keywords: Biomass, Fuels, Gasification, Capital.

**DE20131047698**

Energy, Environmental, and Economic Analyses of Design Concepts for the Co-Production of Fuels and Chemicals with Electricity via Co-Gasification of Coal and Biomass. Princeton Univ., NJ. Princeton Environmental Inst.\*\*Politecnico di Torino (Italy).\*\*North China Electric Power Test and Research Inst., Beijing. 2012, 145p

**Related Categories/Subcategories**

68 (Environmental Pollution & Control)  
97K (Fuels)  
97F (Fuel Conversion Processes)  
97I (Electric Power Production)  
Keywords: Energy systems, Environmental impact, Economic analysis.

**GEOHERMAL****DE20121042378**

Thermo-Hydro-Mechanical Modeling of Working Fluid Injection and Thermal Energy Extraction in EGS Fractures and Rock Matrix. 37th Workshop on Geothermal Reservoir Engineering. Idaho National Laboratory, Idaho Falls, ID. 2012, 11p  
INL/CON-12-24584

**Related Categories/Subcategories**

97P (Geothermal Energy)  
Keywords: Geothermal systems, Reservoir engineering, Fractured reservoirs.

**DE20121039793**

Geothermal Power and Interconnection: The Economics of Getting to Market. National Renewable Energy Lab., Golden, CO. 2012, 44p  
NREL/TP-6A20-54192

**Related Categories/Subcategories**

97P (Geothermal Energy)  
97K (Fuels)  
97G (Policies, Regulations & Studies)  
Keywords: Geothermal systems, Economic development, Market.

**DE20121043168**

Recovery Act - Geothermal Technologies Program: Ground Source Heat Pumps Final Scientific/Technical Report. City of Eagan Minnesota, Eagan, MN.\*\*Harris Corp., Melbourne, FL. 2012, 16p  
DOE0002807

**Related Categories/Subcategories**

97P (Geothermal Energy)  
97J (Heating & Cooling Systems)  
Keywords: Geothermal systems, Ground source heat pumps.

**FREE DOWNLOAD DE20121037497**

Advanced Manufacturing for a U.S. Clean Energy Economy (Fact Sheet) National Renewable Energy Lab., Golden, CO. 2012, 2p  
DOE/GO-102012-3539

**Related Categories/Subcategories**

97G (Policies, Regulations & Studies)  
96C (International Commerce, Marketing, & Economics)  
Keywords: Energy efficiency, Manufacturing, Economic analysis.

**FREE DOWNLOAD DE20121037502**

Water Power for a Clean Energy Future. National Renewable Energy Lab., Golden, CO. 2012, 2p  
DOE/GO-102012-3545

**Related Categories/Subcategories**

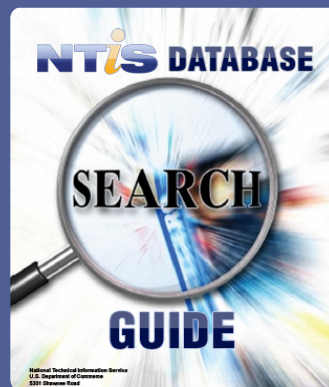
97I (Electric Power Production)  
48G (Hydrology & Limnology)  
Keywords: Hydroelectric power plants, Energy efficiency, Electric power.

**FREE DOWNLOAD DE20121038307**

Building a New Energy Future with Wind Power. National Renewable Energy Lab., Golden, CO. 2012, 2p  
DOE/GO-102012-3544

**Related Categories/Subcategories**

97O (Miscellaneous Energy Conversion & Storage)  
Keywords: Wind power, Availability, Capacity, Communities.

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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 Web site. The list is in alphabetical order by title.

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DE20121045750	97	Doubly Fed Induction Generator in an Offshore Wind Power Plant Operated at Rated V/Hz.
DE2003815046	97	Economically and Environmentally Friendly Production of Fuel and Power from Hog Manure Using GTI's HIMET(SM) Two-Stage Anaerobic Digestion Technology. Final Technical Report.
ADA561918	49	Emulation of Wind Power with a DC Machine to Provide Input to a Doubly- Fed Induction Machine.
DE20131047698	68	Energy, Environmental, and Economic Analyses of Design Concepts for the Co-Production of Fuels and Chemicals with Electricity via Co-Gasification of Coal and Biomass.
DE20131067946	68	Feasibility Study of Anaerobic Digestion of Food Waste in St. Bernard, Louisiana. 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.
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DE20121037932	97	Hawaii Clean Energy Initiative (HCEI) Scenario Analysis: Quantitative Estimates Used to Facilitate Working Group Discussions (2008-2010).
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