PIDP

Pacific
Islands
Development
Program

RSi

Resource
Systems
Institute

THESAURUS FOR ENERGY AND RURAL DEVELOPMENT: REVISED AND EXPANDED EDITION

Diane M. Pruett and Ted Toyoshiba, Jr.

Revised by: Lynne Freeman and
Victoria D. Rumenapp

May 1984

ENERGY
PROGRAM

RM-84-2

East-West Center
Honolulu, Hawaii

THESAURUS FOR ENERGY AND RURAL DEVELOPMENT: REVISED AND EXPANDED EDITION

Diane M. Pruett and Ted Toyoshiba, Jr.

Revised by: Lynne Freeman and
Victoria D. Rumenapp

With the assistance of:

Ann Jacobs
Richard Morse
Thammanun Pongsrikul
Jamuna Ramakrishna
Michael T. Santerre
Charles C. Schlegel
Kirk R. Smith

May 1984
RM-84-2

INTRODUCTION

The Thesaurus for Energy and Rural Development: Revised and Expanded Edition is a joint publication of the Energy for Rural Development (ERD) Program and the Pacific Island Energy Studies (PIES) Program at the East West Center. The thesaurus was originally developed to provide a standardized vocabulary for indexing the documents in the Energy and Rural Development (ERD) Reference Collection at the Resource Systems Institute.

Two problems led to the creation of the thesaurus. First there was no interdisciplinary thesaurus that covered the areas of energy and rural development. Second, many of the specific descriptors needed to cover the subject, with its emphasis on energy systems appropriate to rural areas in Asia, were not included in thesauri which were available at that time.

Two separate thesauri, each authoritative in its field, provided the framework for the ERD Thesaurus: the Energy Information Data Base: Subject Thesaurus[1] developed by the United States Department of Energy, and the Macrothesaurus for Information Processing in the Field of Economic and Social Development2 (OECD). Terms appropriate to the subject were chosen from both thesauri along with parts of the cross reference structures. Then, in consultation with specialists in the fields of energy, agriculture, applied ecology, economics, and sociology and with people who have knowledge of energy problems and projects in Asia, additional terms were included. The first edition of the ERD Thesaurus then became a separate entity in which there were 940 authorized terms and 280 terms that were not authorized.

For the present revised and expanded edition, 100 authorized terms were developed while indexing new documents for a bibliography concerning energy in the Pacific region. These descriptors are relevant to both Asia and the Pacific region and reflect new concerns in the energy and rural development field that have evolved since the thesaurus was first published. These terms, plus several more developed in the process of indexing documents for the Energy for Rural Development Reference Collection, especially in the area of Participatory Action Research, have been integrated with the previous terms. As in the first edition, descriptors were checked in the two reference thesauri to ensure consistency.

Terms in the thesaurus cover the technical and physical aspects of energy as well as its social and economic aspects. Both renewable and nonrenewable energy sources are covered in depth. In addition, there is a concentration of descriptors which are appropriate to the planning and operation of localized, small-scale energy systems.

TERMINOLOGY

In a few areas there exist terms with overlapping or ambiguous meanings that are difficult to class as synonyms or to place in hierarchical relationships. Three distinct problems are created by "ENERGY" versus "POWER", "ENERGY SOURCES" and "TECHNOLOGY".

To many people, especially those crossing disciplines, the meanings and connotations of the words "energy" and "power" are confusing and/or indistinguishable. Often both the author and reader say "solar energy" but mean "solar power" or say "nuclear power" but mean "nuclear energy". In this thesaurus a compromise was reached, strictly for the purposes of indexing and retrieval. The broad terms "ENERGY" and "POWER" exist in the thesaurus as separate terms. However, the narrower terms having to do with energy and/or power have each been combined into one term - "ENERGY/POWER". Those terms are:

ANIMAL ENERGY/POWER
BIOMASS ENERGY/POWER
DENDROTHERMAL ENERGY/POWER
ELECTRIC ENERGY/POWER
GEOTHERMAL ENERGY/POWER
HUMAN ENERGY/POWER
HYDROELECTRIC ENERGY/POWER
NUCLEAR ENERGY/POWER
OCEAN MOTION ENERGY/POWER
OCEAN THERMAL ENERGY/POWER
SOLAR ENERGY/POWER
WIND ENERGY/POWER

Energy sources have been categorized in many ways, including modern versus traditional, conventional versus non-conventional, commercial versus non-commercial, and renewable versus nonrenewable. The first three examples are ambiguous in that their definitions are place specific. For example, a traditional energy source in one country may be a modern energy source in another. Therefore, in this thesaurus only the terms "RENEWABLE ENERGY SOURCES" AND "NONRENEWABLE ENERGY SOURCES" are used.

The terminology associated with "technology" and used in the literature is similarly confusing. The following chart categorizes the terminology into three groups: type of technology, scale of facility, and ambiguous terms.

Technology		
Type	Scale of Facility	Ambiguous
Modern	Centralized	Appropriate
Intermediate	Community	Alternative
Traditional	Decentralized	Hard
	Large Scale	Soft
	Small Scale	Renewable
		Nonrenewable
		Commercial
		Non-Commercial
		Conventional
		Non-Conventional

Although none of the terms are entirely adequate, the following were chosen as the most useful. Included are definitions or scope notes.

Traditional Technology

1. A subsistence-level technology whose origin is often lost in history.
2. A technology that utilizes entirely local resources and traditional skills and usually has a relatively low capital cost per unit output.
3. A technology that uses human or animal power for motive tasks.

Intermediate Technology

1. A technology that departs from traditional technologies, yet has lower capital costs than a modern technology.
2. A technology that may use sophisticated scientific and engineering concepts, but is within the capabilities of most persons in rural areas of developing countries to afford to own and operate, is relatively easy to maintain and repair, and uses local resources as much as possible.

Modern Technology

1. A technology that involves considerable capital cost or a high level of expertise by the owner/s or operator/s of the system.
2. A technology that has been developed in recent times.

Centralised Technology

A technology that is characterised by having relatively few production sites, often of relatively large size, with a relatively large distribution system for delivery of goods and services to users.

Decentralised Technology

A technology that is characterised by having a relatively large number of production sites, often of relatively small size, with consumption of the goods or services usually occurring in the vicinity of the production site.

Appropriate Technology

This term is used to describe the "fit" of a technology in a given situation rather than to categorize technologies.

Alternative Technology

This term is used to describe various options or available alternatives, but not used to categorize technologies.

HOW TO USE THE THESAURUS

The thesaurus consists of two parts. The main body of the work is an alphabetical list of terms followed by the cross-reference structure. Appended to the main body is a list of nations of the world with standardized forms of country names.

The cross-reference structure specifies relationships among the terms that may be hierarchical, non-hierarchical or substitutions. The following example illustrates the three kinds of relationships. An explanation of each type of cross-reference follows.

Biofuels
  USE BIOMASS FUELS
BIOMASS FUELS
  UF Biofuels
  BT Fuels
  NT Charcoal
  NT Ethanol
  NT Fuelwood
  NT Methanol
  RT Bioconversion

USE: The USE reference leads from a term that is not authorized to one that is authorized.

Biofuels USE BIOMASS FUELS

The authorized term may be a preferred synonym, a more general term that has been selected to represent the specific concept, a preferred spelling, a concept that can be considered a synonym for the purposes of indexing and retrieval, or the preferred normal word order.

UF: The USED FOR reference is the reciprocal of the USE reference and accompanies the term to which the USE reference refers.

BIOMASS FUELS UF Biofuels

BT: The BROADER TERM reference indicates a hierarchical relationship. It refers to a more general term in the same subject class.

FUELWOOD BT Biomass fuels

NT: The NARROWER TERM reference is the reciprocal of the BT reference. It indicates the existence of a more specific term in the same subject class.

BIOMASS FUELS NT Fuelwood

RT: The RELATED TERM reference spotlights a term which is related in some way other than the general-specific relationship.

BIOMASS FUELS BT Bioconversion

RT references are used wherever it is believed that the user might want to be reminded of terms of a related nature.

Each cross-reference must have a reciprocal. For every USE there is a UF, for every BT there is an NT, for every RT there is a corresponding RT.

Besides the cross-reference structure there are two other types of notes. In some cases definitions are provided for terms. The definitions are identified by the abbreviation "DEF" and are listed after the cross references. The other type is a scope note, which explains the intended use of a term, often by excluding possible meanings that are commonly used in different disciplines. This information is placed in parentheses and precedes the cross references.

The Thesaurus for Energy and Rural Development is a dynamic structure, not without compromises. Your comments, criticisms and suggestions are welcome and necessary for a viable thesaurus. Please send all comments to:

Energy for Rural Development Collection
East-West Center Resource Systems Institute
1777 East-West Road
Honolulu, Hawaii 96848
USA

Notes

1. United States Department of Energy. Energy Information Data Base: Subject Thesaurus. Oak Ridge, Tennessee: U.S. Department of Energy Technical Information Center, October 1979.

2. Viet, Jean. Macrothesaurus for Information Processing in the Field of Economic and Social Development. Paris: Organisation for Economic Co-operation and Development (OECD), 1978.

ABSTRACTS
  BT Document types
ACCOUNTING
  NT Energy accounting
  RT Losses
ACTION RESEARCH
  BT Participatory action research
ADMINISTRATION
  USE MANAGEMENT
ADULT EDUCATION
  BT Education
AEROBIC DIGESTION
  UF Digestion (Aerobic)
  BT Bioconversion
  BT Microbial processes
  BT Waste management
  BT Waste processing
  RT Composting
  RT Synthetic fuels
AEROBIC FERMENTATION
  BT Fermentation
AFFORESTATION
  RT Forests
  RT Forestry
  RT Reforestation
Agencies
  USE GOVERNMENT BODIES
AGRICULTURAL CONSERVATION
  BT Conservation
AGRICULTURAL COOPERATIVES
  BT Cooperatives
AGRICULTURAL DEVELOPMENT
  BT Development
  RT Green revolution
  RT Watershed management
AGRICULTURAL ECOSYSTEMS
  BT Ecosystems
AGRICULTURAL ENERGY CONSUMPTION
  BT Energy consumption
  RT Agriculture
AGRICULTURAL ENGINEERING
  UF Agricultural technology
  BT Engineering
AGRICULTURAL EQUIPMENT
  BT Equipment
  NT Agricultural machinery
  NT Irrigation equipment
AGRICULTURAL EXTENSION
  BT Extension services
  RT Agricultural institutes
  RT Agricultural training
  RT Agriculture
Agricultural Inputs
  USE AGRICULTURAL REQUIREMENTS
AGRICULTURAL INSTITUTES
  UF Institutes (Agricultural)
  RT Agricultural extension
  RT Agricultural training
AGRICULTURAL MACHINERY
  UF Farm machinery
  BT Agricultural equipment
  BT Machinery
  NT Power tillers
  NT Tractors
  RT Agricultural mechanization
  RT Farms
AGRICULTURAL MARKET
  BT Market
AGRICULTURAL MECHANIZATION
  BT Mechanization
  RT Agricultural machinery
AGRICULTURAL PLANNING
  BT Planning
  RT Forestry planning
AGRICULTURAL POLICY
  BT Government policy
  RT Economic policy
AGRICULTURAL PRACTICES
  BT Farming systems
  NT Cultivation practices
AGRICULTURAL PRODUCTION
  UF Production (Agricultural)
  RT Food production
AGRICULTURAL PRODUCTIVITY
  UF Productivity (Agricultural)
AGRICULTURAL PROJECTS
  BT Development projects
  RT Rural development
AGRICULTURAL REQUIREMENTS
  UF Agricultural inputs
  UF Inputs (Agricultural)
  BT Requirements
AGRICULTURAL RESEARCH
  BT Research
Agricultural Residues
  USE AGRICULTURAL WASTES
AGRICULTURAL SECTOR
  UF Sector (Agricultural)
AGRICULTURAL SURPLUSES
  BT Surpluses
Agricultural Technology
  USE AGRICULTURAL ENGINEERING
AGRICULTURAL TRAINING
  UF Farmer training
  BT Vocational training
  RT Agricultural extension
  RT Agricultural institutes
  RT Agriculture

AGRICULTURAL WASTES
UF Agricultural residues
UF Farm wastes
BT Wastes
NT Animal wastes
NT Compost
NT Crop wastes
NT Manures
RT Agriculture
RT Biomass
RT Cooking fuels
RT Energy sources
RT Plants
RT Refuse-derived fuels
AGRICULTURE
RT Agricultural energy consumption
RT Agricultural extension
RT Agricultural training
RT Agricultural wastes
RT Biomass energy farms
RT Crops
RT Cultivation
RT Ecosystems
RT Farms
RT Feed
RT Fertilizers
RT Food
RT Hydroponic culture
RT Irrigation
RT Livestock
RT Pest control
RT Pesticides
RT Plant Products
RT Plants
RT Soil chemistry
RT Soil conservation
RT Soils
Aid
USE DEVELOPMENT AID
AIR CONDITIONERS
NT Solar air conditioners
RT Air conditioning
RT Heat pumps
AIR CONDITIONING
NT Solar air conditioning
RT Air conditioners
RT Radiative cooling
AIR POLLUTION
UF Thermal pollution (Air)
BT Pollution
RT Environmental effects
RT Smoke
RT Waste heat
AIR TRANSPORT
BT Transport
Alcogas
USE GASOHOL
ALCOHOL
NT Ethanol
NT Methanol
RT Alcohol fermentation
RT Cocohol
RT Gasohol
RT Synthetic fuels
ALCOHOL FERMENTATION
BT Anaerobic fermentation
RT Alcohol
ALGAE
UF Seaweed
BT Plants
RT Biomass energy farms
ALGAE CULTURE
BT Aquaculture
ALTERNATIVE TECHNOLOGY
BT Technology
RT Appropriate technology
RT Intermediate technology
AMMONIA
BT Gases
RT Anaerobic digestion
RT Fertilizers
ANAEROBIC DIGESTERS
UF Biogas digesters
UF Biogas plants
NT Bag-type digesters
NT Batch digesters
NT Continuous digesters
NT Fixed-dome digesters
NT Floating-dome digesters
NT Plug flow digesters
NT Water pressure digesters
RT Anaerobic digestion
RT Biogas
RT Gas holders
ANAEROBIC DIGESTION
UF Digestion (Anaerobic)
BT Bioconversion
BT Microbial processes
BT Waste management
BT Waste processing
NT Biogasification
RT Ammonia
RT Anaerobic digesters
RT Animal wastes
RT Biogas
RT Human wastes
RT Synthetic fuels
ANAEROBIC FERMENTATION

BT Fermentation
NT Alcohol fermentation
NT Methane fermentation
Analysis (Chemical)
USE CHEMICAL ANALYSIS
Analysis (Data)
USE DATA ANALYSIS
Analysis (Demographic)
USE DEMOGRAPHIC ANALYSIS
Analysis (Economic)
USE ECONOMIC ANALYSIS
Analysis (Energy)
USE ENERGY ANALYSIS
Analysis (Process)
USE PROCESS ANALYSIS
Analysis (Regional)
USE REGIONAL ANALYSIS
Analysis (Sociological)
USE SOCIOLOGICAL ANALYSIS
Analysis (Statistical)
USE STATISTICAL ANALYSIS
Analysis (Systems)
USE SYSTEMS ANALYSIS
ANIMAL CARTS
BT Vehicles
ANIMAL ENERGY/POWER
UF Animal labor
UF Draft power
BT Energy
BT Power
RT Bullocks
Animal Labor
USE ANIMAL ENERGY/POWER
ANIMAL PROTEINS
BT Proteins
NT Eggs
NT Meat
ANIMAL WASTES
BT Agricultural wastes
NT Dung
NT Urine
RT Anaerobic digestion
RT Human wastes
RT Fertilizers
RT Manures
ANIMALS
BT Biomass
NT Domestic animals
NT Draft animals
NT Fishes
NT Fowl
NT Insects
NT Livestock
Animators
USE FACILITATORS
ANNUAL REPORTS
BT Document types
APARTMENT BUILDINGS
BT Buildings
APPLIANCES
NT Biogas appliances
NT Electric appliances
NT Ovens
NT Space heaters
NT Stoves
APPLIED RESEARCH
BT Research
RT Research and development
APPROPRIATE TECHNOLOGY
(Use to describe the "fit" of a technology in a given situation. Do not use to categorize technologies.)
BT Technology
RT Alternative technology
RT Intermediate technology
AQUACULTURE
UF Aquiculture
UF Mariculture
UF Ocean farms
NT Algae culture
NT Fish culture
RT Fisheries
RT Fishes
AQUACULTURE PONDS
UF Fish ponds
BT Ponds
RT Water reservoirs
AQUATIC ECOSYSTEMS
BT Ecosystems
AQUATIC PLANTS
BT Plants
Aquiculture
USE AQUACULTURE
ARCHITECTURAL CODES
UF Building codes
UF Construction codes
RT Buildings
RT Construction
RT Ventilation
RT Windows
Area Studies
USE REGIONAL ANALYSIS
AREA-LEVEL PLANNING
BT Development planning
RT Rural development
ARID LANDS
BT Marginal lands

NT Deserts
RT Land use
Aspects (Behavioral)
USE BEHAVIORIAL ASPECTS
Aspects (Economic)
USE ECONOMIC ASPECTS
Aspects (Energy)
USE ENERGY ASPECTS
Aspects (Environmental)
USE ENVIRONMENTAL ASPECTS
Aspects (Global)
USE GLOBAL ASPECTS
Aspects (Health)
USE HEALTH ASPECTS
Aspects (Institutional)
USE INSTITUTIONAL ASPECTS
Aspects (Political)
USE POLITICAL ASPECTS
Aspects (Psychological)
USE PSYCHOLOGICAL ASPECTS
Aspects (Social)
USE SOCIAL ASPECTS
Aspects (Technical)
USE TECHNICAL ASPECTS
Aspects (Temporal)
USE TEMPORAL ASPECTS
Assessment (Resource)
USE RESOURCE ASSESSMENT
Assessment (Risk)
USE RISK ASSESSMENT
Assessment (Technology)
USE TECHNOLOGY ASSESSMENT
ATLASES
BT Document types
ATTITUDES
RT Motivations
AUTOMOBILES
BT Vehicles
RT Spark ignition engines
AUTOMOTIVE FUELS
BT Fuels
RT Diesel fuels
RT Gasohol
RT Gasoline
RT Methane
AVIATION FUELS
UF Aviation gas
UF Jet fuels
BT Fuels
Aviation Gas
USE AVIATION FUELS
AZOLLA
BT Legumes
BACK-UP ENERGY SYSTEMS
UF Systems (Back-up Energy)
RT Intermittency
BACTERIA
RT Fermentation
RT Microbial processes
RT Nitrogen fixation
RT Pathogens
BAG-TYPE DIGESTERS
UF Rubber digesters
UF Taiwan-type digesters
BT Anaerobic digesters
BAGASSE
BT Crop wastes
RT Biomass energy/power
RT Sugar cane
Bajra
USE MILLET
BALANCE OF PAYMENTS
NT Exports
NT Imports
RT Economics
RT Foreign trade
RT Trade policy
Ball-Type Digesters
USE FIXED-DOME DIGESTERS
BAMBOO
Basic Human Needs
USE BASIC NEEDS
BASIC NEEDS
UF Basic human needs
UF Critical needs
UF Needs (Basic)
NT Educational needs
NT Food requirements
NT Housing needs
NT Information needs
NT Water requirements
RT Development policy
RT Felt needs
RT Social indicators
BASIC RESEARCH
BT Research
BATCH DIGESTERS
BT Anaerobic digesters
Batteries (Electric)
USE ELECTRIC BATTERIES
BEANS
BT Legumes
Beef
USE CATTLE
OR MEAT
BEHAVIOR
RT Motivations
BEHAVIORIAL ASPECTS

UF Aspects (Behaviorial)
BENEFIT-COST ANALYSIS
UF Cost-benefit analysis
BT Economic analysis
RT Benefits
RT Costs
RT Technology assessment
BENEFITS
RT Benefit-cost analysis
RT Costs
BENZINE
BT Fuels
RT Cooking fuels
RT Lighting fuels
BIBLIOGRAPHIC DATA BASES
BT Data bases
BIBLIOGRAPHIES
BT Document types
BICYCLES
BT Vehicles
Bio-gas
USE BIOGAS
BIOCONVERSION
NT Aerobic digestion
NT Anaerobic digestion
NT Biogasification
NT Fermentation
RT Biomass
RT Biomass fuels
DEF A Process whereby biological material is produced, collected, converted, and used as fuel.
BIODEGRADATION
BT Decomposition
Biofuels
USE BIOMASS FUELS
BIOGAS
UF Bio-gas
UF Gobar gas
BT Fuel gas
BT Gases
BT Low BTU gas
RT Anaerobic digestion
RT Anaerobic digesters
RT Cooking fuels
RT Lighting fuels
RT Methane
RT Natural gas
BIOGAS APPLIANCES
BT Appliances
NT Biogas lamps
NT Biogas stoves
Biogas Digesters
USE ANAEROBIC DIGESTERS
BIOGAS LAMPS
BT Biogas appliances
Biogas Plants
USE ANAEROBIC DIGESTERS
BIOGAS STOVES
BT Biogas appliances
BT Stoves
BIOGASIFICATION
BT Anaerobic digestion
BT Bioconversion
NT Gasification
BT Waste processing
DEF An anaerobic digestion process for converting solid municipal waste and sewage into pipeline quality fuel gas and an odor free, stable solid.
BIOLOGICAL NITROGEN FIXATION
BT Nitrogen fixation
BIOLOGICAL PRODUCTIVITY
UF Productivity (Biological)
UF Yield (Biological)
RT Plant growth
BIOMASS
NT Animals
NT Plants
RT Agricultural wastes
RT Bioconversion
RT Biomass energy farms
RT Crop wastes
RT Forest litter
DEF All biological material including animals and plants.
BIOMASS ENERGY/POWER
BT Energy
BT Renewable energy sources
BT Power
RT Bagasse
RT Biomass
RT Biomass energy farms
BIOMASS ENERGY FARMS
UF Biomass plantations
UF Energy farms
UF Energy plantations
NT Marine energy farms
RT Agriculture
RT Algae
RT Biomass
RT Biomass energy/power
RT Energy crops
RT Energy forests
RT Crops

RT Dendrothermal energy/power
RT Farms
RT Firewood
RT Trees
DEF An area for the growing, harvesting and collection of energy or combined energy/food crops for conversion into fuels.

BIOMASS FUELS
UF Biofuels
BT Fuels
NT Charcoal
NT Ethanol
NT Fuelwood
NT Methanol
RT Bioconversion
RT Energy crops

Biomass Plantations
USE BIOMASS ENERGY FARMS

Birds
USE FOWL

BIRTH CONTROL
BT Family planning
BT Population control
RT Population growth

Blades (Turbines)
USE TURBINE BLADES

BOATS
UF Ships
NT Fishing boats
NT Motor boats
NT Sail boats
RT Marine transport
RT Vehicles

BOILERS
NT Steam generators

BOOMTOWNS
BT Towns

BRICKS
BT Construction materials

BRIDGES
BT Transport infrastructure

BRIQUETS
BT Solid fuels
RT Charcoal
RT Coal

BUDGETS
RT Funding
RT Planning

Building (Constructing)
USE CONSTRUCTION

Building (Fabrication)
USE FABRICATION

Building (Manufacturing)
USE MANUFACTURING

Building Codes
USE ARCHITECTURAL CODES

Building Materials
USE CONSTRUCTION MATERIALS

BUILDINGS
NT Apartment buildings
NT Hotels
NT Houses
NT Office buildings
NT Restaurants
NT Schools
RT Architectural codes
RT Construction

BULLOCKS
BT Cattle
RT Animal energy/power

Bunker Oils
USE RESIDUAL FUELS

BUSES
BT Vehicles

BUTANE
BT Liquefied petroleum gas

CALORIFIC VALUE
UF Value (Calorific)
RT Combustion
RT Fuels

CANALS
BT Inland waterways

CAPACITY
RT Production
RT Storage

CAPITAL
RT Costs
RT Economics
RT Financing

CARBOHYDRATES
NT Cellulose
NT Sugar
RT Food

CARBON DIOXIDE
BT Gases

CARBON MONOXIDE
BT Gases

CARNOT CYCLE
RT Heat
RT Heat engines
RT Heat pumps
RT Thermodynamics

CASE STUDIES
UF Studies (Case)
BT Document types

CASSAVA

UF Manihot
UF Manioc
BT Root crops
RT Energy crops
RT Methanol

CATALOGS
BT Document types

CATTLE
UF Beef
BT Livestock
NT Bullocks
RT Forage
RT Meat

Cells (Photovoltaic)
USE PHOTOVOLTAIC CELLS

Cells (Protein)
USE SINGLE CELL PROTEINS

Cells (Thermoelectric)
USE THERMOELECTRIC GENERATORS

CELLULOSE
BT Carbohydrates

CEMENTS
BT Construction materials
BT Reinforced concrete
RT Concretes

Centers (Development)
USE DEVELOPMENT CENTERS

Centers (Health)
USE HEALTH CENTERS

Centers (Information)
USE INFORMATION CENTERS

Centers (Research)
USE RESEARCH CENTERS

Centers (Rural Energy)
USE RURAL ENERGY CENTERS

Central Government
USE NATIONAL GOVERNMENT

CENTRALIZED TECHNOLOGY
BT Technology
RT Decentralized technology

CERAMICS
RT Clays

Cereals
USE GRAINS

Change (Social)
USE SOCIAL CHANGE

Change (Technological)
USE TECHNOLOGICAL CHANGE

Change Agents
USE FACILITATORS

Changes (Climatic)
USE CLIMATIC CHANGES

Changes (Population)
USE POPULATION DYNAMICS

CHARCOAL
BT Biomass fuels
RT Briquets
RT Cooking fuels
RT Firewood

CHEMICAL ANALYSIS
UF Analysis (Chemical)
RT Chemical composition

CHEMICAL COMPOSITION
UF Composition (Chemical)
RT Chemical analysis

CHEMICAL EFFLUENTS
UF Effluents (Chemical)
RT Liquid wastes
RT Pollution
RT Solid wastes

CHEMICAL FEEDSTOCKS
BT Feedstocks

Chemistry (Photo)
USE PHOTOCHEMISTRY

Chemistry (Soil)
USE SOIL CHEMISTRY

CHICKENS
BT Poultry

CHILDREN
BT Humans

Chinese-type Digesters
USE FIXED-DOME DIGESTERS

Chula
USE STOVES

CITIES
RT Urban areas
RT Urban communities

CLAYS
BT Construction materials
RT Ceramics
RT Sand
RT Soils

CLIMATES
RT Climatic changes
RT Degree days
RT Floods
RT Monsoons
RT Seasons
RT Temperature
RT Weather
RT Wind

CLIMATIC CHANGES
UF Changes (Climatic)
NT Drought
RT Climates

COAL
BT Fossil fuels
NT Lignite

RT Briquets
RT Coal gasification
RT Coal liquefaction
RT Fluidized-bed combustion

COAL GASIFICATION
BT Gasification
RT Coal
RT Gases
RT Synthetic fuels

COAL LIQUEFACTION
BT Liquefaction
RT Coal
RT Synthetic fuels

COAL TRANSPORT
BT Transport

COASTAL REGIONS
UF Regions (Coastal)

COCOA

COCOHOL
(A mixture of coconut oil and ethanol used as fuel.)
BT Fuels
RT Alcohol
RT Coconut oil
RT Ethanol

COCONUT HUSKS
BT Crop wastes
RT Coconuts

COCONUT OIL
BT Oils
RT Cocohol
RT Coconuts
RT Copra
RT Vegetable oils

COCONUT PALMS
BT Trees
RT Coconuts

COCONUTS
RT Coconut husks
RT Coconut oil
RT Coconut palms
RT Copra

COFFEE
RT Food

COGENERATION
RT Total energy systems

Collectors (Concentrating)
USE CONCENTRATING COLLECTORS

Collectors (Flat Plate)
USE FLAT PLATE COLLECTORS

Collectors (Gas)
USE Gas Holders

COMBUSTION
NT Fluidized-bed combustion
RT Calorific value
RT Smoke
RT Spark ignition engines

Commercial Fishing
USE FISHING INDUSTRY

COMMERCIAL FUELS
(Includes fuels produced and sold on a large-scale basis such as coal, electricity, natural gas, and petroleum.)
UF Conventional fuels
UF Fuels (Conventional)
BT Fuels

COMMERCIAL SECTOR
UF Sector (Commercial)
RT Economic development
RT Marketing
RT Trade

COMMERCIALIZATION
RT Demonstration programs
RT Economic development

COMMODITY MARKET
BT Market

COMMUNICATIONS

COMMUNITIES
NT Rural communities
NT Urban communities

Communities (Ecological)
USE ECOSYSTEMS

COMMUNITY SCALE SYSTEMS
UF Systems (Community Scale)
RT Family scale systems

COMPETITION
RT Economics

Composition (Chemical)
USE CHEMICAL COMPOSITION

COMPOST
BT Agricultural wastes
RT Composting
RT Dung
RT Fertilizers
RT Manures

COMPOSTING
BT Waste management
BT Waste processing
RT Aerobic digestion
RT Compost

CONCENTRATING COLLECTORS
UF Collectors (Concentrating)
NT Parabolic collectors
RT Solar concentrators

CONCRETES
BT Construction materials
NT Reinforced concrete

RT Cements
RT Sand

Conditions (Economic)
USE ECONOMIC CONDITIONS

Conditions (Social)
USE SOCIAL CONDITIONS

Conditions (Working)
USE WORKING CONDITIONS

Conflict Resolution
USE DISPUTE SETTLEMENT

CONFLICTS
RT Dispute settlement
RT Violence

CONSERVATION
NT Agricultural conservation
NT Energy conservation
NT Resource conservation
NT Soil conservation
RT Environmental policy

CONSTRAINTS
RT Feasibility studies

CONSTRUCTION
UF Building (Constructing)
RT Architectural codes
RT Buildings
RT Fabrication
RT Installation
RT Manufacturing
RT Production

Construction Codes
USE ARCHITECTURAL CODES

CONSTRUCTION MATERIALS
UF Building materials
UF Structural materials
NT Bricks
NT Cements
NT Clays
NT Concretes
NT Lumber
NT Reinforced concrete
NT Steel
RT Metals
RT Sand

CONSUMPTION
NT Energy consumption
NT Petroleum consumption
NT Resource consumption
RT Consumption rates

CONSUMPTION RATES
RT Consumption

CONTINUOUS DIGESTERS
BT Anaerobic digesters

Conventional Fuels
USE COMMERCIAL FUELS

COOKING
BT Food preparation
RT Food

COOKING FUELS
BT Fuels
RT Agricultural wastes
RT Benzine
RT Biogas
RT Charcoal
RT Dung
RT Fuelwood
RT Kerosene
RT Liquefied petroleum gas
RT Millet stalks
RT Rice straw

Coolers
USE HEAT EXCHANGERS

COOLING
NT Radiative cooling
NT Refrigeration
NT Solar cooling
NT Solar refrigeration
RT Heat exchangers
RT Heat pumps
RT Heat transfer
RT Heating
RT Water

COOPERATIVES
NT Agricultural cooperatives
RT Marketing

COPRA
RT Coconut oil
RT Coconuts

Corn
USE MAIZE

CORROSION
RT Weathering

Cost-Benefit Analysis
USE BENEFIT-COST ANALYSIS

COSTS
NT Delivery costs
NT Equipment costs
NT Food costs
NT Fuel costs
NT Installation costs
NT Labor costs
NT Maintenance costs
NT Operating costs
NT Production costs
RT Benefit-cost analysis
RT Benefits
RT Capital
RT Economics
RT Prices

COTTAGE INDUSTRY
UF Household industry
BT Small-scale industry
RT Craftsmen
RT Rural industry
COTTON
BT Plant fibers
CRAFTSMEN
RT Cottage industry
Critical Needs
USE BASIC NEEDS
CROP DRYING
UF Grain drying
BT Drying
NT Tea drying
RT Food preservation
CROP ROTATION
BT Cultivation practices
RT Cropping patterns
CROP WASTES
UF Plant wastes
BT Agricultural wastes
NT Bagasse
NT Coconut husks
NT Millet stalks
NT Rice husks
NT Rice straw
RT Biomass
RT Fertilizers
RT Manures
CROP YIELDS
RT Crops
RT Harvesting
CROPLANDS
NT Rice paddies
RT Crops
CROPPING PATTERNS
RT Crop rotation
RT Cultivation practices
CROPS
NT Energy crops
NT Feed crops
NT Fertilizer crops
NT Fiber crops
NT Food crops
NT Root crops
RT Agriculture
RT Biomass energy farms
RT Crop yields
RT Croplands
RT Cultivation
RT Grains
RT Harvesting
RT Hydroponic culture
RT Vegetables
Crude Oil
USE PETROLEUM
CULTIVATION
RT Agriculture
RT Crops
CULTIVATION PRACTICES
BT Agricultural practices
NT Crop rotation
NT Planting
RT Cropping patterns
Daily Variations
USE DIURNAL VARIATIONS
DAMS
RT Flood control
RT Hydroelectric power plants
RT Water reservoirs
DATA
UF Measured values
BT Information
RT Data bases
RT Data collection
RT Data processing
RT Data transmission
RT Measurement
RT Statistical analysis
RT Statistics
Data Acquisition
USE DATA COLLECTION
DATA ANALYSIS
UF Analysis (Data)
RT Data processing
DATA BASES
NT Bibliographic data bases
NT Statistical data bases
RT Data
RT Information services
DATA COLLECTION
UF Data acquisition
UF Data compilation
BT Research methods
NT Surveys
RT Data
Data Compilation
USE DATA COLLECTION
DATA PROCESSING
UF Handling (Data)
UF Processing (Data)
RT Data
DATA TRANSMISSION
UF Transmission (Data)
RT Data
DC'S
USE INDUSTRIALIZED COUNTRIES

De-forestation
USE DEFORESTATION
Decay (Biological)
USE DECOMPOSITION
DECENTRALIZED TECHNOLOGY
BT Technology
RT Centralized technology
DECISION MAKING
RT Planning
RT Policy making
DECOMPOSITION
UF Decay (Biological)
NT Biodegradation
NT Fermentation
RT Pyrolysis
RT Weathering
Deficiency (Nutritional)
USE MALNUTRITION
DEFORESTATION
UF De-forestation
BT Denudation
RT Desertification
RT Erosion
RT Forests
RT Watershed management
DEGREE DAYS
RT Climates
RT Space heating
DELACOTTE PROCESS
(A process used to suppress tar in gasifiers.)
RT Gasifiers
DELIVERY COSTS
BT Costs
RT Equipment costs
RT Installation costs
DELPHI METHOD
BT Forecasting
RT Planning
RT Technology assessment
DEMAND
BT Supply and demand
NT Petroleum demand
DEMOGRAPHIC ANALYSIS
UF Analysis (Demographic)
RT Demography
DEMOGRAPHY
RT Demographic analysis
DEMONSTRATION PLANTS
UF Plants (Demonstration)
RT Demonstration programs
RT Pilot plants
DEF Facilities designed to establish the technical and economical feasibility of technologies proven by pilot plant testing.
DEMONSTRATION PROGRAMS
UF Programs (Demonstration)
RT Commercialization
RT Demonstration plants
RT Extension services
RT Planning
RT Research programs
DENDROTHERMAL ENERGY/POWER
BT Energy
BT Power
RT Biomass energy farms
Density (Population)
USE POPULATION DENSITY
DENUDATION
NT Deforestation
NT Erosion
Departments
USE GOVERNMENT BODIES
DEPENDENCE
RT Self-reliance
DEF Situation in which a country is dependent on another for natural and/or human resources.
DESALINATION
RT Distillation
RT Drinking water
RT Seawater
DEF Any process for making potable water from sea water or other saline waters.
DESERTIFICATION
RT Deforestation
RT Drought
RT Erosion
DESERTS
BT Arid lands
DESIGN
RT Engineering
RT Planning
RT Technology utilization
RT Users
Developed Countries
USE INDUSTRIALIZED COUNTRIES
DEVELOPING COUNTRIES
UF LDCs
UF Less developed countries
UF Third world
RT Industrialized countries
DEVELOPMENT
NT Agricultural development

NT Economic development
NT Forestry development
NT Industrial development
NT Institutional development
NT Irrigation development
NT Organizational development
NT Rural development

Development Activists
USE FACILITATORS

Development Agents
USE FACILITATORS

DEVELOPMENT AID
UF Aid
BT International cooperation
NT Economic aid
NT Health aid
RT Funding

DEVELOPMENT BANKS
RT Economic development

Development Brokers
USE FACILITATORS

DEVELOPMENT CENTERS
UF Centers (Development)
RT Research centers
RT Rural energy centers

DEVELOPMENT EDUCATION
BT Education
RT Participatory Action Research

DEVELOPMENT PLANNING
BT Planning
NT Area-level planning

DEVELOPMENT PLANS
UF Plans (Development)
RT Development policy
RT Development projects

DEVELOPMENT POLICY
BT Government policy
NT Rural development policy
RT Basic needs
RT Development plans
RT Development strategy

DEVELOPMENT POTENTIAL
RT Economic infrastructure

DEVELOPMENT PROJECTS
UF Projects (Development)
NT Agricultural projects
NT Electrification projects
NT Joint projects
NT Rural development projects
RT Development plans
RT Pilot projects
RT Project proposals
RT Project reports

DEVELOPMENT REPORTS
BT Reports
RT Project reports

DEVELOPMENT RESEARCH
BT Research

Development (Social)
USE SOCIAL DEVELOPMENT

DEVELOPMENT STRATEGY
UF Strategy (Development)
RT Development policy

DIAGNOSTIC INDICATORS
UF Indicators (Diagnostic)

DICTIONARIES
BT Document types

DIESEL ENGINES
BT Engines
RT Dual-fuel engines

DIESEL FUELS
UF Diesel oil (Fraction)
BT Middle distillates
RT Automotive fuels

DIESEL GENERATORS
UF Generators (Diesel)

Diesel Oil (Fraction)
USE DIESEL FUELS

DIET
RT Food
RT Nutrition

Digestion (Aerobic)
USE AEROBIC DIGESTION

Digestion (Anaerobic)
USE ANAEROBIC DIGESTION

DIRECTORIES
BT Document types

Discharges (Wastes)
USE WASTE DISPOSAL

DISEASES
RT Health
RT Pathogens
RT Sanitation
RT Social problems

Disposal (Wastes)
USE WASTE DISPOSAL

DISPUTE SETTLEMENT
UF Conflict resolution
RT Conflicts
RT Problem solving

DISTILLATION
NT Solar distillation
RT Desalination
RT Distilleries
RT Petroleum

DISTILLERIES
RT Distillation

DISTRIBUTION

NT Petroleum distribution
RT Marketing
Distribution (Energy)
USE ENERGY DISTRIBUTION
Distribution (Income)
USE INCOME DISTRIBUTION
Distribution (Land)
USE LAND TENURE
Distribution (Population)
USE POPULATION DISTRIBUTION
District Government
USE STATE GOVERNMENT
DIURNAL VARIATIONS
UF Daily variations
BT Variations
BT Periodicity
Document Retrieval
USE INFORMATION RETRIEVAL
DOCUMENT TYPES
NT Abstracts
NT Annual reports
NT Atlases
NT Bibliographies
NT Case studies
NT Catalogs
NT Dictionaries
NT Directories
NT Journals
NT Manuals
NT Maps
NT Newsletters
NT Posters
NT Proceedings
NT Reports
NT Reviews
NT Thesauri
NT Workbooks
NT Yearbooks
DOCUMENTATION
RT Information retrieval
RT Information systems
DEF The assembling, coding, and disseminating of recorded knowledge.
DOMESTIC ANIMALS
BT Animals
RT Livestock
DOMESTIC MARKET
BT Market
Domestic Sector
USE HOUSEHOLD SECTOR
DOMESTIC WASTES
BT Wastes
DONKEYS
BT Livestock
DRAFT ANIMALS
BT Animals
RT Livestock
Draft Power
USE ANIMAL ENERGY/POWER
DRINKING WATER
UF Potable water
BT Water
RT Desalination
RT Food
RT Fresh water
DROUGHT
RT Climatic changes
RT Desertification
RT Monsoons
RT Rainfall
DRYERS
NT Solar dryers
DRYING
NT Crop drying
NT Solar drying
RT Solar kilns
DUAL-FUEL ENGINES
BT Engines
RT Diesel engines
DUCKS
BT Poultry
DUNG
UF Feces (Animal)
UF Gobar
BT Animal wastes
RT Compost
RT Cooking fuels
RT Farmyard manures
RT Human excrement
RT Fertilizers
RT Urine
Ecological Communities
USE ECOSYSTEMS
ECOLOGICAL EFFECTS
RT Ecology
RT Environmental effects
ECOLOGY
RT Ecological effects
RT Ecosystems
RT Environment
ECONOMETRICS
BT Economics
RT Economic analysis
RT Economic elasticity
RT Economic models
ECONOMIC AID
BT Development aid

ECONOMIC ANALYSIS
UF Analysis (Economic)
NT Benefit-cost analysis
NT Input-output analysis
RT Econometrics
RT Energy analysis
ECONOMIC ASPECTS
UF Aspects (Economic)
RT Economic conditions
ECONOMIC CONDITIONS
UF Conditions (Economic)
RT Economic aspects
ECONOMIC DEVELOPMENT
BT Development
RT Commercial sector
RT Commercialization
RT Development banks
RT Economic growth
RT Economic planning
RT Economic policy
RT Industry
RT Rural development
ECONOMIC ELASTICITY
RT Econometrics
RT Supply and demand
ECONOMIC FORECASTS
BT Forecasts
ECONOMIC GROWTH
UF Growth (Economic)
RT Economic development
RT Economic policy
RT Economics
ECONOMIC IMPACTS
UF Impacts (Economic)
RT Socio-economic factors
ECONOMIC INDICATORS
UF Indicators (Economic)
NT Gross domestic product
NT Gross national product
RT Economic planning
RT Economic policy
RT Economic statistics
RT Social indicators
ECONOMIC INFRASTRUCTURE
RT Development potential
RT Economic resources
ECONOMIC MODELS
BT Models
RT Econometrics
ECONOMIC PLANNING
BT Planning
RT Economic development
RT Economic indicators
RT Economic policy
ECONOMIC POLICY
BT Government policy
RT Agricultural policy
RT Economic development
RT Economic growth
RT Economic indicators
RT Economic planning
RT Economics
RT Energy policy
Economic Production
USE PRODUCTION
Economic Productivity
USE PRODUCTIVITY
ECONOMIC RESEARCH
BT Research
ECONOMIC RESOURCES
UF Resources (Economic)
RT Economic infrastructure
RT Human resources
RT Natural resources
ECONOMIC STATISTICS
BT Statistics
RT Economic indicators
RT Economics
ECONOMIC SURVEYS
BT Surveys
ECONOMICS
NT Econometrics
RT Balance of payments
RT Capital
RT Competition
RT Costs
RT Economic growth
RT Economic policy
RT Economy
RT Financial incentives
RT Financing
RT Income
RT Marketing
RT Poor
RT Prices
RT Socio-economic factors
RT Supply and demand
RT Trade
ECONOMY
RT Economics
DEF The structure of economic life in a country or area.
ECOSYSTEMS
UF Communities (Ecological)
UF Ecological communities
NT Agricultural ecosystems
NT Aquatic ecosystems
NT Forest ecosystems

NT Human ecosystems
NT Rural ecosystems
NT Terrestrial ecosystems
NT Urban ecosystems
RT Agriculture
RT Ecology
RT Environment

EDUCATION
NT Adult education
NT Development education
RT Manuals
RT Training

EDUCATIONAL NEEDS
BT Basic needs

EFFICIENCY
NT Energy efficiency
NT Thermal efficiency
RT Energy conversion
RT Fuel economy
RT Net energy
RT Performance
RT Productivity
RT Second law efficency

Effluents (Chemical)
USE CHEMICAL EFFLUENTS

Effluents (Liquid)
USE LIQUID WASTES

EGGS
BT Animal proteins
RT Poultry

ELECTRIC APPLIANCES
BT Appliances
NT Lamps
NT Refrigerators
NT Stoves
NT Thermoelectric refrigerators

ELECTRIC BATTERIES
UF Batteries (Electric)
UF Storage batteries
RT Energy storage

ELECTRIC ENERGY/POWER
BT Energy
BT Power
NT Hydroelectric energy/power
RT Electricity
RT Fossil-fuel power plants
RT Nuclear energy/power
RT Electric power demand
RT Electric power distribution
RT Electric power generation
RT Electric power plants
RT Electric power transmission
RT Solar energy/power
RT Wind energy/power

ELECTRIC GENERATORS
UF Generators (Electric)

ELECTRIC POWER DEMAND
RT Electric energy/power
RT Energy demand

ELECTRIC POWER DISTRIBUTION
BT Energy distribution
RT Electric energy/power
RT Electric power transmission
RT Energy transport

ELECTRIC POWER GENERATION
RT Electric energy/power

ELECTRIC POWER PLANTS
UF Plants (Power)
NT Fossil-fuel power plants
NT Geothermal power plants
NT Hydroelectric power plants
NT Ocean thermal power plants
NT Photovoltaic power plants
NT Solar power plants
NT Solar thermal power plants
NT Tidal power plants
NT Wind power plants
RT Electric energy/power

ELECTRIC POWER TRANSMISSION
UF Transmission (Electric power)
RT Electric energy/power
RT Electric power distribution
RT Energy transport

ELECTRICITY
(Only for the physical phenomenon sense; for utility purposes, use ELECTRIC ENERGY/POWER.)
RT Electric energy/power

ELECTRIFICATION PROJECTS
BT Development projects

ELITE
RT Poor

EMPLOYMENT
NT Unemployment
NT Seasonal employment
RT Labor
RT Labor market
RT Manpower
RT Occupations

ENERGY
NT Animal energy/power
NT Biomass energy/power
NT Dendrothermal energy/power
NT Electric energy/power
NT Geothermal energy/power
NT Heat
NT Human energy/power
NT Hydroelectric energy/power

NT Nuclear energy/power
NT Ocean motion energy/power
NT Ocean thermal energy/power
NT Solar energy/power
NT Waste heat
NT Wind energy/power
RT Energy resources
RT Energy sources
RT Energy statistics
RT Power
RT Thermodynamics

ENERGY ACCOUNTING
UF Energy costs
BT Accounting
BT Energy analysis
NT Energy audit
NT Energy indexing
RT Energy management
RT Energy quality
RT Energy requirements
RT Net energy

ENERGY ANALYSIS
UF Analysis (Energy)
NT Energy accounting
NT Energy flows
NT Energy flow models
NT Energy quality
NT Net energy
RT Economic analysis
RT Energy indexing
RT Energy models
RT Input-output analysis
RT Systems analysis
DEF Any analysis or methodolgy to discover how energy is used by economies.

ENERGY ASPECTS
UF Aspects (Energy)

ENERGY AUDIT
BT Energy accounting

ENERGY CONSERVATION
BT Conservation
RT Energy consumption
RT Energy efficiency
RT Energy management
RT Fuel substitution
RT Recycling
RT Resource conservation
RT Total energy systems

ENERGY CONSUMPTION
UF Energy use
UF Use (Energy)
BT Consumption
NT Agricultural energy consumption
NT Fuel consumption
NT Industrial energy consumption
NT National energy consumption
NT Rural energy consumption
RT Energy conservation
RT Energy efficiency
RT Energy production
RT Energy requirements
RT Energy resources
RT Energy surveys
RT Net energy
RT Total energy systems

ENERGY CONVERSION
NT Geothermal energy conversion
NT Ocean motion energy conversion
NT Ocean thermal energy conversion
NT Solar energy conversion
NT Thermoelectric conversion
RT Efficiency
RT Energy transfer
RT Heat engines
RT Photovoltaic effect

Energy costs
USE ENERGY ACCOUNTING

ENERGY CROPS
BT Crops
RT Biomass energy farms
RT Cassava
RT Biomass fuels

ENERGY DEMAND
RT Energy efficiency
RT Energy requirements
RT Energy shortages
RT Energy supply
RT Electric power demand

Energy Dissipation
USE ENERGY LOSSES

ENERGY DISTRIBUTION
UF Distribution (Energy)
NT Electric power distribution

ENERGY EFFICIENCY
BT Efficiency
RT Energy conservation
RT Energy consumption
RT Energy demand
RT Energy intensity
RT Energy losses
RT Energy quality
RT Net energy

Energy Exchange
USE ENERGY TRANSFER

Energy Farms
USE BIOMASS ENERGY FARMS

ENERGY FLOW MODELS

BT Energy analysis
ENERGY FLOWS
BT Energy analysis
ENERGY FORESTRY
BT Forestry
RT Trees
RT Fuelwood
ENERGY FORESTS
BT Forests
RT Biomass energy farms
RT Fuelwood
ENERGY INDEXING
BT Energy accounting
RT Energy analysis
Energy Inputs
USE ENERGY REQUIREMENTS
ENERGY INTENSITY
RT Energy efficiency
ENERGY LOSSES
UF Energy dissipation
UF Losses (Energy)
NT Heat losses
RT Energy efficiency
ENERGY MANAGEMENT
RT Energy accounting
RT Energy conservation
RT Energy supply
RT Fuel substitution
ENERGY MODELS
BT Models
RT Energy analysis
ENERGY NEEDS
UF Needs (Energy)
RT Energy requirements
ENERGY PLANNING
BT Planning
Energy Plantations
USE BIOMASS ENERGY FARMS
ENERGY POLICY
UF Energy strategies
UF Strategies (Energy)
BT Government policy
RT Economic policy
RT Regional cooperation
RT Rural development policy
ENERGY PRODUCTION
UF Production (Energy)
RT Energy consumption
ENERGY PROJECTIONS
RT Forecasting
ENERGY QUALITY
BT Energy analysis
RT Energy accounting
RT Energy efficiency
RT Enthalpy
RT Entropy
ENERGY REQUIREMENTS
UF Energy inputs
UF Inputs (Energy)
BT Requirements
RT Energy accounting
RT Energy consumption
RT Energy demand
RT Energy needs
ENERGY RESEARCH
BT Research
ENERGY RESOURCES
BT Natural resources
RT Energy
RT Energy consumption
ENERGY SHORTAGES
RT Energy demand
RT Energy sources
RT Energy supply
RT Fuel substitution
ENERGY SOURCES
NT Fossil fuels
NT Fuel gas
NT Nonrenewable energy sources
NT Nuclear fuels
NT Renewable energy sources
NT Waste heat
RT Agricultural wastes
RT Energy
RT Energy shortages
RT Energy supply
ENERGY STATISTICS
BT Statistics
RT Energy
ENERGY STORAGE
BT Storage
NT Heat storage
NT Pumped storage
RT Electric batteries
RT Intermittency
RT Water reservoirs
Energy Strategies
USE ENERGY POLICY
ENERGY SUPPLY
RT Energy demand
RT Energy management
RT Energy shortages
RT Energy sources
RT Fuel substitution
ENERGY SURVEYS
BT Surveys
RT Energy consumption
ENERGY TECHNOLOGY

BT Technology
ENERGY TRANSFER
UF Energy exchange
UF Transfer (Energy)
NT Heat transfer
RT Energy conversion
Energy Transmission
USE ENERGY TRANSPORT
ENERGY TRANSPORT
UF Energy transmission
UF Transmission (Energy)
UF Transport (Energy)
RT Electric power distribution
RT Electric power transmission
Energy Use
USE ENERGY CONSUMPTION
Energy Yield
USE NET ENERGY
ENGINEERING
NT Agricultural engineering
RT Design
RT Technology
ENGINES
NT Diesel engines
NT Dual-fuel engines
NT Heat engines
NT Spark ignition engines
NT Steam engines
RT Humphrey pumps
RT Motors
ENTHALPY
RT Entropy
RT Energy quality
RT Thermodynamics
ENTROPY
RT Energy quality
RT Enthalpy
RT Thermodynamics
ENVIRONMENT
RT Ecology
RT Ecosystems
RT Environmental effects
RT Environmental impacts
RT Environmental laws
RT Environmental policy
RT Habitat
RT Pollution
RT Regional analysis
RT Site selection
ENVIRONMENTAL ASPECTS
UF Aspects (Environmental)
ENVIRONMENTAL EFFECTS
(Use only when the actual effects to the environment are discussed.)
RT Ecological effects
RT Environment
RT Air pollution
RT Land pollution
RT Water pollution
ENVIRONMENTAL IMPACTS
(Use to describe the possible effects on the environment from a proposed project.)
UF Impacts (Environmental)
RT Environment
ENVIRONMENTAL LAWS
UF Pollution laws
UF Pollution regulations
BT Laws
RT Environment
RT Pollution
ENVIRONMENTAL POLICY
BT Government policy
RT Conservation
RT Environment
EQUIPMENT
NT Agricultural equipment
RT Equipment costs
RT Tools
EQUIPMENT COSTS
BT Costs
RT Delivery costs
RT Equipment
RT Installation costs
EROSION
UF Soil loss
RT Deforestation
RT Denudation
RT Desertification
RT Soils
ESTERS
ETHANOL
UF Ethyl alcohol
UF Grain alcohol
BT Alcohol
BT Biomass fuels
RT Cocohol
RT Gasohol
RT Gasohol programs
Ethyl Alcohol
USE ETHANOL
EUCALYPTUS
BT Trees
RT Leucaena
EVALUATION
RT Evaluation techniques
RT Testing

EVALUATION TECHNIQUES
BT Research methods
RT Evaluation
Exchange (Heat)
USE HEAT TRANSFER
Exchangers (Heat)
USE HEAT EXCHANGERS
Experimental Plants
USE PILOT PLANTS
EXPORTS
BT Balance of payments
BT Foreign trade
EXTENSION SERVICES
NT Agricultural extension
RT Demonstration programs
FABRICATION
UF Building (Fabrication)
RT Construction
RT Manufacturing
RT Production
FACILITATORS
UF Animators
UF Change agents
UF Development activists
UF Development agents
UF Development brokers
UF Lamis
UF Mobilizers
RT Participatory Action Research
Factors (Socio-economic)
USE SOCIO-ECONOMIC FACTORS
FAMILY PLANNING
BT Planning
NT Birth control
FAMILY SCALE SYSTEMS
UF Systems (Family Scale)
RT Community scale systems
FAMINE
BT Social problems
RT Malnutrition
Farm Animals
USE LIVESTOCK
FARM BUILDINGS
Farm Machinery
USE AGRICULTURAL MACHINERY
FARM SIZE
RT Farms
Farm Wastes
USE AGRICULTURAL WASTES
Farmer Training
USE AGRICULTURAL TRAINING
FARMERS
NT Tenant farmers
FARMING SYSTEMS
UF Integrated farming systems
UF Systems (Farming)
NT Agricultural practices
FARMS
RT Agricultural machinery
RT Agriculture
RT Biomass energy farms
RT Farm size
FARMYARD MANURES
BT Manures
RT Dung
FEASIBILITY STUDIES
UF Studies (Feasibility)
RT Constraints
RT Research projects
Feces (Animal)
USE DUNG
Feces (Human)
USE HUMAN EXCREMENT
FEED
UF Feedstuffs
NT Fodder
RT Agriculture
RT Feed crops
RT Forage
FEED CROPS
BT Crops
RT Feed
FEEDLOTS
RT Piggeries
RT Poultry farms
FEEDSTOCKS
NT Chemical feedstocks
Feedstuffs
USE FEED
FELT NEEDS
UF Needs (Felt)
UF Perceived needs
RT Basic needs
FEMALES
NT Women
FERMENTATION
BT Bioconversion
BT Decomposition
NT Aerobic fermentation
NT Anaerobic fermentation
RT Bacteria
RT Microbial processes
FERTILIZER CROPS
BT Crops
RT Fertilizers
FERTILIZERS
RT Agriculture
RT Ammonia

RT Animal wastes
RT Compost
RT Crop wastes
RT Dung
RT Fertilizer crops
RT Manures
RT Nitrogen
RT Nitrogen cycle
RT Nutrients
RT Phosphates
RT Plants
RT Soil chemistry
RT Soil conditioners
RT Soil conservation
RT Wastes

FIBER CROPS
BT Crops
RT Plant fibers

FIELD RESEARCH
BT Research
RT Research methods

FINANCIAL INCENTIVES
UF Incentives (Financial)
RT Economics
RT Financing
RT Risk assessment

FINANCING
RT Capital
RT Economics
RT Financial incentives

FIREWOOD
BT Fuelwood
RT Charcoal
RT Forest litter
RT Wood

FISH CULTURE
BT Aquaculture

Fish Meal
USE FISH PRODUCTS

Fish Ponds
USE AQUACULTURE PONDS

FISH PRODUCTS
UF Fish meal
UF Products (Fish)
NT Seafood

FISHERIES
RT Aquaculture

FISHERY RESEARCH
BT RESEARCH

FISHES
BT Animals
RT Aquaculture
RT Food
RT Harvesting
RT Meat
RT Seafood

FISHING BOATS
BT Boats

FISHING INDUSTRY
BT Industry

FIXED-DOME DIGESTERS
UF Ball-type digesters
UF Chinese-type digesters
UF Janata-type digesters
UF Prad-type digesters
BT Anaerobic digesters
RT Floating-dome digesters

FLAT PLATE COLLECTORS
UF Collectors (Flat Plate)
RT Solar air heaters

FLOOD CONTROL
RT Dams

FLOODS
RT Climates
RT Rainfall
RT Weather

FLOATING-DOME DIGESTERS
UF Indian-type digesters
UF KVIC-type digesters
BT Anaerobic digesters
RT Fixed-dome digesters

FLUIDIZED-BED COMBUSTION
BT Combustion
RT Coal

FODDER
BT Feed

FOOD
UF Foodstuffs
NT Fruits
NT Meat
NT Milk products
NT Seafood
NT Vegetables
RT Agriculture
RT Carbohydrates
RT Coffee
RT Cooking
RT Diet
RT Drinking water
RT Fishes
RT Food crops
RT Food preparation
RT Food preservation
RT Food processing
RT Food requirements
RT Fowl
RT Nutrients
RT Nutrition

RT Proteins
RT Sterilization
FOOD COSTS
BT Costs
FOOD CROPS
BT Crops
NT Grains
NT Legumes
RT Food
RT Root crops
FOOD DELIVERY SYSTEMS
UF Systems (Food Delivery)
RT Food supply systems
FOOD INDUSTRY
BT Industry
NT Meat industry
FOOD PREPARATION
NT Cooking
RT Food
RT Ovens
RT Stoves
FOOD PRESERVATION
UF Preservation
RT Crop drying
RT Food
RT Refrigeration
RT Sterilization
FOOD PROCESSING
RT Food
FOOD PRODUCTION
UF Production (Food)
RT Agricultural production
FOOD REQUIREMENTS
BT Basic needs
BT Requirements
RT Food
RT Nutrition
FOOD STORAGE
BT Storage
FOOD SUPPLY
RT Food supply systems
FOOD SUPPLY SYSTEMS
UF Systems (Food Supply)
RT Food delivery systems
RT Food supply
Foodstuffs
USE FOOD
FORAGE
RT Cattle
RT Feed
RT Grass
FORECASTING
UF Prediction
NT Delphi method
RT Energy projections
RT Forecasts
RT Weather
FORECASTS
NT Economic forecasts
RT Forecasting
RT Trends
RT Projections
FOREIGN POLICY
BT Government policy
RT International agreements
FOREIGN TRADE
BT Trade
NT Exports
NT Imports
RT Balance of payments
RT International market
RT Trade policy
FOREST ECOSYSTEMS
BT Ecosystems
FOREST LITTER
RT Biomass
RT Firewood
RT Forests
Forest Management
USE FORESTRY
FOREST PRODUCTS
BT Plant products
NT Wood
NT Wood products
FOREST RESOURCES
RT Trees
RT Forests
RT Fuelwood
FORESTRY
UF Forest management
NT Energy forestry
NT Silviculture
RT Afforestation
RT Forestry statistics
RT Forests
RT Reforestation
FORESTRY DEVELOPMENT
BT Development
FORESTRY PLANNING
BT Planning
RT Agricultural Planning
FORESTRY RESEARCH
BT Research
FORESTRY STATISTICS
BT Statistics
RT Forestry
FORESTS
NT Energy forests

RT Afforestation
RT Deforestation
RT Forest litter
RT Forest resources
RT Forestry
RT Reforestation
RT Trees
RT Wood

FOSSIL-FUEL POWER PLANTS
BT Electric power plants
RT Electric energy/power

Fossil Fuel Reserves
USE FOSSIL FUELS
AND RESERVES

FOSSIL FUELS
UF Fossil fuel reserves
BT Energy sources
BT Fuels
BT Non-renewable fuels
NT Coal
NT Natural gas
NT Oil shales
NT Petroleum

FOWL
UF Birds
BT Animals
NT Poultry
RT Food
RT Meat

FRESH WATER
BT Water
RT Drinking water
RT Irrigation
RT Water reservoirs

FRUIT TREES
BT Trees
RT Fruits

FRUITS
BT Food
BT Plant products
RT Fruit trees

FUEL BLENDS
BT Fuels

FUEL CONSUMPTION
BT Energy consumption
RT Fuel economy

FUEL COSTS
BT Costs

FUEL CYCLE
RT Risk assessment

FUEL ECONOMY
RT Automotive fuels
RT Efficiency
RT Fuel consumption

FUEL GAS
BT Energy sources
BT Gas fuels
BT Gases
NT Biogas
NT Low BTU gas
NT Natural gas
NT Producer gas
NT Town gas
NT Water gas
RT Synthetic fuels

FUEL OILS
BT Fuels
BT Oils
NT Middle distillates
NT Residual fuels
RT Liquid fuels
RT Lubricants
RT Pyrolysis
RT Synthetic fuels

FUEL RESERVES
RT Storage

FUEL SUBSTITUTION
RT Energy conservation
RT Energy management
RT Energy shortages
RT Energy supply
RT Non-renewable fuels

FUELS
NT Automotive fuels
NT Aviation fuels
NT Benzine
NT Biomass fuels
NT Cocohol
NT Commercial fuels
NT Cooking fuels
NT Fossil fuels
NT Fuel blends
NT Fuel oils
NT Gas fuels
NT Gasoline
NT Kerosene
NT Lighting fuels
NT Liquid fuels
NT Non-renewable fuels
NT Nuclear fuels
NT Refuse-derived fuels
NT Residual fuels
NT Solid fuels
NT Synthetic fuels
RT Calorific value
RT Energy crops
RT Fuel economy
RT Wood

Fuels (Conventional)
USE COMMERCIAL FUELS
Fuels (Nuclear)
USE NUCLEAR FUELS
FUELWOOD
UF Wood fuel
BT Biomass fuels
BT Wood
NT Firewood
RT Cooking fuels
RT Biomass energy farms
RT Energy forestry
RT Energy forests
RT Forest resources
FUNDING
RT Budgets
RT Development aid
FUNGI
BT Plants
NT Yeasts
FURNACES
NT Solar furnaces
RT Kilns
Gas Collectors
USE GAS HOLDERS
GAS FUELS
BT Fuels
NT Fuel gas
GAS HOLDERS
UF Collectors (Gas)
UF Gas collectors
RT Anaerobic digesters
GASES
NT Ammonia
NT Biogas
NT Carbon dioxide
NT Carbon monoxide
NT Fuel gas
NT Hydrogen
NT Methane
NT Oxygen
RT Coal gasification
RT Purification
GASIFICATION
NT Biogasification
NT Coal gasification
NT Wood gasification
RT Gasifiers
GASIFIERS
RT Delacotte Process
RT Gasification
GASOHOL
(A mixture of ethanol and gasoline which is used for automotive fuel.)
UF Alcogas
RT Alcohol
RT Automotive fuels
RT Ethanol
RT Gasohol programs
RT Gasoline
RT Spark ignition engines
GASOHOL PROGRAMS
UF Programs (Gasohol)
RT Gasohol
GASOLINE
UF Motor spirits
BT Fuels
RT Automotive fuels
RT Gasohol
RT Refinery mix
RT Spark ignition engines
GAUN SALLAH
RT Participatory Action Research
GDP
USE GROSS DOMESTIC PRODUCT
Generation (Electric Power)
USE ELECTRIC POWER GENERATION
Generation (Steam)
USE STEAM GENERATION
Generators (Diesel)
USE DIESEL GENERATORS
Generators (Electric)
USE ELECTRIC GENERATORS
Generators (Steam)
USE STEAM GENERATORS
Generators (Thermoelectric)
USE THERMOELECTRIC GENERATORS
Generators (Wind)
USE WIND TURBINES
Geography
RT Regional analysis
GEOTHERMAL ENERGY/POWER
BT Energy
BT Power
BT Renewable energy sources
RT Geothermal heating
RT Geothermal power plants
GEOTHERMAL ENERGY CONVERSION
BT Energy conversion
GEOTHERMAL HEATING
BT Heating
RT Geothermal energy/power
GEOTHERMAL POWER PLANTS
BT Electric power plants
RT Geothermal energy/power
GEOTHERMAL RESOURCES
UF Hot water fields
GLOBAL ASPECTS

UF Aspects (global)
GNP
USE GROSS NATIONAL PRODUCT
GOATS
BT Livestock
Gobar
USE DUNG
Gobar Gas
USE BIOGAS
GOVERNMENT BODIES
UF Agencies
UF Departments
UF Ministries
BT National government
GOVERNMENT POLICY
UF Policy
NT Agricultural policy
NT Development policy
NT Economic policy
NT Energy policy
NT Environmental policy
NT Foreign policy
NT Health policy
NT Industrial policy
NT Science policy
NT Trade policy
RT Local government
RT National government
RT Policy making
RT State government
Government Subsidies
USE SUBSIDIES
Grain Alcohol
USE ETHANOL
Grain Drying
USE CROP DRYING
Grain Milling
USE MILLING
GRAINS
UF Cereals
BT Food crops
BT Plant products
NT Maize
NT Millet
NT Rice
NT Sorghum
NT Wheat
RT Crops
RT Green revolution
GRASS
BT Plants
RT Forage
RT Weeds
GREEN MANURES
BT Plant products
RT Manures
GREEN REVOLUTION
RT Agricultural development
RT Grains
GROSS DOMESTIC PRODUCT
UF GDP
BT Economic indicators
RT Gross national product
RT Production
DEF Sum of a nation's economic output measured in terms of expenditures for goods and services by consumers, government, business, and foreign countries.
GROSS NATIONAL PRODUCT
UF GNP
BT Economic indicators
RT Gross domestic product
RT Production
DEF The sum of the gross domestic product and earnings from foreign investments.
GROUND WATER
BT Water
RT Liquid wastes
RT Soils
RT Water resources
Growth (Economic)
USE ECONOMIC GROWTH
Growth (Plant)
USE PLANT GROWTH
Growth (Population)
USE POPULATION GROWTH
GUIDELINES
RT Recommendations
HABITAT
RT Environment
DEF The area or type of environment in which a plant or animal normally lives or occurs.
Handbooks
USE MANUALS
Handling (Data)
USE DATA PROCESSING
Handling (Wastes)
USE WASTE MANAGEMENT
HARVESTING
UF Logging
RT Crop yields
RT Crops
RT Fishes

RT Wood
HAZARDS
NT Health hazards
RT Risks
RT Safety
Hazards (Occupational)
USE WORKING CONDITIONS
HEALTH
NT Public health
RT Diseases
RT Health aid
RT Health planning
RT Health policy
RT Health services
RT Sanitation
HEALTH AID
BT Development aid
RT Health
HEALTH ASPECTS
UF Aspects (Health)
HEALTH CENTERS
UF Centers (Health)
BT Health services
HEALTH HAZARDS
BT Hazards
RT Public health
RT Safety
HEALTH PLANNING
BT Planning
RT Health
RT Health policy
HEALTH POLICY
BT Government policy
RT Health
RT Health planning
RT Health services
HEALTH SERVICES
BT Social services
NT Health centers
NT Hospitals
RT Health
RT Health policy
RT Medical care
RT Public health
HEAT
BT Energy
NT Waste heat
RT Carnot cycle
RT Heat transfer
RT Heating
HEAT ENGINES
BT Engines
NT Solar heat engines
NT Stirling engines
RT Carnot cycle
RT Energy conversion
RT Heat pumps
RT Solar-assisted power systems
HEAT EXCHANGERS
UF Coolers
UF Exchangers (Heat)
NT Heat pumps
NT Solar-assisted heat pumps
RT Cooling
RT Heat transfer
RT Heating
RT Steam generators
HEAT LOSSES
BT Energy losses
RT Heat transfer
HEAT PUMPS
BT Heat exchangers
NT Solar-assisted heat pumps
RT Air conditioners
RT Carnot cycle
RT Cooling
RT Heat engines
RT Heat transfer
RT Heating
RT Pumps
RT Refrigeration
HEAT SINKS
RT Heat transfer
RT Thermodynamics
RT Waste heat
HEAT STORAGE
BT Energy storage
BT Storage
RT Thermal energy storage systems
Heat Storage Devices
USE THERMAL ENERGY STORAGE SYSTEMS
Heat Storage Systems
USE THERMAL ENERGY STORAGE SYSTEMS
HEAT TRANSFER
UF Exchange (Heat)
UF Heat transmission
UF Transfer (Heat)
UF Transmission (Heat)
BT Energy transfer
RT Cooling
RT Heat
RT Heat exchangers
RT Heat losses
RT Heat pumps
RT Heat sinks
RT Heating
RT Steam generators
RT Thermal insulation

RT Thermodynamics
Heat Transmission
USE HEAT TRANSFER
HEAT VALUE
(The amount of heat given off by material when it burns.)
UF Value (Heat)
HEATING
NT Geothermal heating
NT Solar heating
NT Solar space heating
NT Space heating
RT Cooling
RT Heat
RT Heat exchangers
RT Heat pumps
RT Heat transfer
Heavy Fuels
USE RESIDUAL FUELS
HERBICIDES
BT Pesticides
HIGH YIELDING VARIETIES
UF HYV
Highways
USE ROADS
HORSES
BT Livestock
HOSPITALS
NT Health services
Hot Water Fields
USE GEOTHERMAL RESOURCES
HOTELS
BT Buildings
Household Industry
USE COTTAGE INDUSTRY
HOUSEHOLD SECTOR
UF Domestic sector
UF Residential sector
UF Sector (Household)
HOUSEHOLDS
HOUSES
UF Residences
HOUSING
RT Housing needs
HOUSING NEEDS
BT Basic needs
RT Housing
HUMAN ECOSYSTEMS
BT Ecosystems
HUMAN ENERGY/POWER
BT Energy
BT Power
NT Pedal energy/power
HUMAN EXCREMENT
UF Feces (Human)
UF Night soil
BT Human wastes
RT Dung
RT Urine
Human Population
USE POPULATION
HUMAN RESOURCES
UF Resources (Human)
RT Economic resources
RT Natural resources
HUMAN SETTLEMENTS
HUMAN WASTES
BT Wastes
NT Human excrement
NT Urine
RT Anaerobic digestion
RT Animal wastes
RT Sewage
HUMANS
NT Children
NT Men
NT Women
HUMPHREY PUMPS
BT Pumps
RT Engines
Hydelpower
USE HYDROELECTRIC ENERGY/POWER
Hydraulic Rams
USE PUMPS
HYDROCARBONS
NT Liquefied petroleum gas
NT Natural gas
RT Oils
RT Petroleum
HYDROELECTRIC ENERGY/POWER
UF Hydelpower
UF Hydroelectricity
UF Hydropower
BT Electric energy/power
BT Energy
BT Power
BT Renewable energy sources
NT Small-scale hydroelectric Energy/power
RT Hydroelectric power plants
HYDROELECTRIC POWER PLANTS
BT Electric power plants
RT Dams
RT Hydroelectric energy/power
RT Pumped storage
RT Turbines
Hydroelectricity
USE HYDROELECTRIC ENERGY/POWER

HYDROGEN
  BT Gases
HYDROPONIC CULTURE
  RT Agriculture
  RT Crops
  RT Plant growth
  DEF Growing of plants in a nutrient solution with the mechanical support of an inert medium such as sand.
Hydropower
  USE HYDROELECTRIC ENERGY/POWER
  OR
  USE WATER ENERGY/POWER
HYV
  USE HIGH YIELDING VARIETIES
ICE
  RT Water
Illumination Systems
  USE LIGHTING SYSTEMS
Impacts (Economic)
  USE ECONOMIC IMPACTS
Impacts (Environmental)
  USE ENVIRONMENTAL IMPACTS
Impacts (Social)
  USE SOCIAL IMPACTS
IMPLEMENTATION
  RT Policy making
IMPORTS
  BT Balance of payments
  BT Foreign trade
Incentives (Financial)
  USE FINANCIAL INCENTIVES
INCOME
  RT Economics
  RT Income distribution
  RT Poor
INCOME DISTRIBUTION
  UF Distribution (Income)
  RT Economics
  RT Income
  RT Poor
  RT Poverty
Indian-type Digesters
  USE FLOATING-DOME DIGESTERS
Indicators (Diagnostic)
  USE DIAGNOSTIC INDICATORS
Indicators (Economic)
  USE ECONOMIC INDICATORS
Indicators (Need)
  USE NEED INDICATORS
Indicators (Social)
  USE SOCIAL INDICATORS
Indicators (Value)
  USE VALUE INDICATORS
INDUSTRIAL DEVELOPMENT
  UF Industrialization
  BT Development
INDUSTRIAL ENERGY CONSUMPTION
  BT Energy consumption
  RT Process heat
INDUSTRIAL POLICY
  BT Government policy
INDUSTRIAL PRODUCTION
  UF Production (Industrial)
  BT Production
INDUSTRIAL SECTOR
  UF Sector (Industrial)
INDUSTRIAL WASTES
  BT Wastes
  RT Liquid wastes
  RT Pollution
  RT Refuse-derived fuels
  RT Solid wastes
Industrialization
  USE INDUSTRIAL DEVELOPMENT
INDUSTRIALIZED COUNTRIES
  UF DC's
  UF Developed countries
  RT Developing countries
Industry (Rural)
  USE RURAL INDUSTRY
INDUSTRY
  NT Fishing industry
  NT Food industry
  NT Meat industry
  NT Petroleum industry
  NT Rural industry
  NT Small-scale industry
  NT Textile industry
  RT Economic development
  RT Manufacturing
  RT Technology assessment
  RT Technology transfer
  RT Technology utilization
INFORMATION
  NT Data
  RT Manuals
  RT Technology transfer
INFORMATION CENTERS
  UF Centers (Information)
  RT Information systems
INFORMATION CLEARINGHOUSES
INFORMATION DISSEMINATION
  RT Information services
  RT Information systems
INFORMATION NEEDS
  BT Basic needs

RT Research programs
INFORMATION NETWORKS
INFORMATION RETRIEVAL
UF Document retrieval
UF Records retrieval
RT Documentation
RT Information systems
INFORMATION SERVICES
RT Data bases
RT Information dissemination
INFORMATION SYSTEMS
UF Systems (Information)
RT Documentation
RT Information centers
RT Information dissemination
RT Information retrieval
INFRASTRUCTURE
INLAND WATERWAYS
NT Canals
NT Rivers
RT Transport
INNOVATIONS
RT Inventions
RT Technological change
INPUT-OUTPUT ANALYSIS
BT Economic analysis
RT Energy analysis
DEF Economic analysis in which the interdependence of an economy's various productive sectors is observed by viewing the product of each industry both as a commodity demanded for final consumption and as a factor in the production of itself and other goods.
Inputs (Agricultural)
USE AGRICULTURAL REQUIREMENTS
Inputs (Energy)
USE ENERGY REQUIREMENTS
INSECTS
BT Animals
RT Pest control
INSOLATION
RT Solar radiation
INSTALLATION
RT Construction
RT Installation costs
INSTALLATION COSTS
BT Costs
RT Delivery costs
RT Equipment costs
RT Installation
Institutes (Agricultural)
USE AGRICULTURAL INSTITUTES
Institutes (Research)
USE RESEARCH CENTERS
Institution Building
USE INSTITUTIONAL DEVELOPMENT
INSTITUTIONAL ASPECTS
UF Aspects (Institutional)
INSTITUTIONAL DEVELOPMENT
UF Institution building
BT Development
RT Organizational development
Insulation (Thermal)
USE THERMAL INSULATION
Integrated Farming Systems
USE FARMING SYSTEMS
Integrated Utility Systems
USE TOTAL ENERGY SYSTEMS
INTERDISCIPLINARY RESEARCH
BT Research methods
INTERGOVERNMENTAL ORGANIZATIONS
BT International organizations
INTERMEDIATE TECHNOLOGY
BT Technology
RT Alternative technology
RT Appropriate technology
INTERMITTENCY
BT Variations
RT Back-up energy systems
RT Energy storage
RT Reliability
INTERNATIONAL AGREEMENTS
(Including agreements involving international organizations.)
UF Treaties
RT Foreign policy
International Assistance
USE INTERNATIONAL COOPERATION
INTERNATIONAL COOPERATION
UF International assistance
NT Development aid
NT Regional cooperation
RT International organizations
RT Technical assistance
INTERNATIONAL MARKET
BT Market
RT Foreign trade
INTERNATIONAL ORGANIZATIONS
UF Organizations (International)
NT Intergovernmental organizations
NT Non-governmental organizations
RT International cooperation
INVENTIONS
RT Innovations
RT Technological change

Ipil-ipil
  USE LEUCAENA
IRON
  BT Metals
  RT Steel
IRRIGATED LANDS
  RT Irrigation
IRRIGATION
  RT Agriculture
  RT Fresh water
  RT Irrigated lands
  RT Irrigation development
  RT Irrigation systems
  RT Pumping
  RT Soil conservation
  RT Soils
IRRIGATION DEVELOPMENT
  BT Development
  RT Irrigation
IRRIGATION EQUIPMENT
  BT Agricultural equipment
  RT Pumps
IRRIGATION SYSTEMS
  UF Systems (Irrigation)
  RT Irrigation
Janata-type Digesters
  USE FIXED-DOME DIGESTERS
Jet Fuels
  USE AVIATION FUELS
JOB DISLOCATION
  DEF The disappearance of particular types of work as a result of there being no further need of the activity in question due to mechanization etc.
JOINT PROJECTS
  BT Development projects
JOURNALS
  BT Document types
Jowar
  USE MILLET
KEROSENE
  BT Fuels
  BT Middle distillates
  RT Cooking fuels
  RT Lighting fuels
KILNS
  NT Solar kilns
  RT Furnaces
Koa Haole
  USE LEUCAENA
Kvic-type Digesters
  USE FLOATING-DOME DIGESTERS
LABOR
  RT Employment
  RT Labor costs
  RT Labor market
  RT Manpower
  RT Occupations
LABOR COSTS
  BT Costs
  RT Labor
Labor Force
  USE MANPOWER
LABOR MARKET
  BT Market
  RT Employment
  RT Labor
  RT Unemployment
LABOR PRODUCTIVITY
  UF Productivity (Labor)
  BT Productivity
Lamis
  USE FACILITATORS
LAMPS
  BT Electric appliances
Land Distribution
  USE LAND TENURE
LAND OWNERSHIP
  RT Land tenure
LAND POLLUTION
  BT Pollution
  RT Environmental effects
LAND RECLAMATION
  RT Land use
  RT Soil conservation
LAND REFORMS
  RT Land tenure
LAND REQUIREMENTS
  BT Requirements
  RT Land use
LAND TENURE
  UF Distribution (Land)
  UF Land distribution
  RT Land ownership
  RT Land reforms
LAND TRANSPORT
  UF Road transport
  BT Transport
  RT Railways
  RT VEHICLES
LAND USE
  UF Land utilization
  UF Use (Land)
  UF Utilization (Land)
  RT Arid lands
  RT Land reclamation

RT Land requirements
Land Utilization
USE LAND USE
LAWS
UF Legislation
NT Environmental laws
RT Legal aspects
RT National government
RT Regulations
RT Solar rights
DEF Rules made by the governing body of a country, state, etc.
LDCS
USE DEVELOPING COUNTRIES
LEGAL ASPECTS
RT Laws
RT Regulations
RT Solar rights
Legislation
USE LAWS
LEGUMES
UF Pulses
BT Plants
BT Food crops
NT Azolla
NT Beans
NT Lentils
NT Soybeans
RT Vegetables
LENTILS
BT Legumes
Less Developed Countries
USE DEVELOPING COUNTRIES
LEUCAENA
UF Ipil-ipil
UF Koa haole
BT Trees
RT Eucalyptus
RT Mimosine
Life (Service)
USE SERVICE LIFE
Life Expectancy
USE SERVICE LIFE
LIGHTING
NT Street lighting
LIGHTING FUELS
BT Fuels
RT Benzine
RT Biogas
RT Kerosene
RT Liquefied petroleum gas
LIGHTING SYSTEMS
UF Illumination systems
UF Systems (Lighting)
LIGNITE
BT Coal
LINEAR PROGRAMMING
(A technique used to determine optimal solutions to problems, particularly those concerning the allocation of resources.)
LIQUEFACTION
NT Coal liquefaction
LIQUEFIED NATURAL GAS
UF LNG
BT Natural gas
RT Liquid fuels
LIQUEFIED PETROLEUM GAS
UF LPG
BT Hydrocarbons
BT Petroleum
NT Butane
NT Propane
RT Cooking fuels
RT Lighting fuels
RT Refinery mix
Liquid Effluents
USE LIQUID WASTES
LIQUID FUELS
BT Fuels
RT Fuel oils
RT Liquefied natural gas
LIQUID WASTES
UF Effluents (Liquid)
UF Liquid effluents
UF Waste solutions
BT Wastes
NT Waste water
RT Chemical effluents
RT Ground water
RT Industrial wastes
RT Waste disposal
RT Waste processing
LIVESTOCK
UF Farm animals
BT Animals
NT Cattle
NT Donkeys
NT Goats
NT Horses
NT Oxen
NT Sheep
NT Swine
NT Water buffaloes
RT Agriculture
RT Domestic animals
RT Draft animals
LNG

USE LIQUEFIED NATURAL GAS
LOCAL GOVERNMENT
RT Government policy
RT National government
RT Regulations
RT State government
Logging
USE HARVESTING
LORENA STOVES
BT Stoves
Lorries
USE TRUCKS
LOSSES
RT Accounting
RT Material balance
Losses (Energy)
USE ENERGY LOSSES
LOW BTU GAS
BT Fuel gas
NT Biogas
NT Producer gas
LPG
USE LIQUEFIED PETROLEUM GAS
LUBRICANTS
UF Mineral oil
RT Fuel oils
LUMBER
BT Construction materials
RT Wood
MACHINERY
UF Machines
NT Agricultural machinery
Machines
USE MACHINERY
MAINTENANCE
RT Operation
RT Maintenance costs
MAINTENANCE COSTS
BT Costs
RT Maintenance
RT Operating costs
MAIZE
UF Corn
BT Grains
MALES
NT Men
MALNUTRITION
UF Deficiency (Nutritional)
UF Nutritional deficiency
BT Social problems
RT Famine
RT Nutrition
MANAGEMENT
UF Administration
NT Resources management
NT Waste management
Manihot
USE CASSAVA
Manioc
USE CASSAVA
MANPOWER
UF Labor force
RT Employment
RT Labor
RT Occupations
MANUALS
(Books designed to give instruction in specific subjects and in the use of specific equipment and material)
UF Handbooks
BT Document types
RT Education
RT Information
RT Recommendations
MANUFACTURING
UF Building (Manufacturing)
RT Construction
RT Fabrication
RT Industry
RT Production
MANURES
BT Agricultural wastes
NT Farmyard manures
RT Animal wastes
RT Compost
RT Crop wastes
RT Fertilizers
RT Green manures
MAPPING
RT Maps
RT Surveys
MAPS
BT Document types
RT Mapping
MARGINAL LANDS
NT Arid lands
Mariculture
USE AQUACULTURE
MARINE ENERGY FARMS
UF Marine plantations
BT Biomass energy farms
Marine Plantations
USE MARINE ENERGY FARMS
MARINE RESOURCES
BT Natural resources
MARINE TRANSPORT
UF Sea transport
UF Shipping

BT Transport
RT Boats
MARKET
NT Agricultural market
NT Commodity market
NT Domestic market
NT International market
NT Labor market
NT Petroleum market
RT Marketing
RT Prices
RT Supply and demand
MARKETING
RT Commercial sector
RT Cooperatives
RT Distribution
RT Economics
RT Market
RT Trade
MATERIAL BALANCE
RT Losses
MATHEMATICAL MODELS
BT Models
NT Statistical models
MEASUREMENT
RT Data
RT Research methods
Measured Values
USE DATA
MEAT
UF Beef
UF Mutton
UF Pork
BT Animal proteins
BT Food
RT Cattle
RT Fishes
RT Fowl
RT Sheep
RT Swine
MEAT INDUSTRY
BT Food industry
BT Industry
MECHANICAL PROPERTIES
MECHANIZATION
NT Agricultural mechanization
MEDICAL CARE
RT Health services
MEN
BT Humans
BT Males
METALS
NT Iron
NT Steel
RT Construction materials
METHANE
BT Gases
BT Fuel gas
RT Automotive fuels
RT Biogas
RT Methane fermentation
RT Natural gas
RT Spark ignition engines
METHANE FERMENTATION
BT Anaerobic fermentation
RT Methane
METHANOL
UF Methyl alcohol
UF Wood alcohol
BT Alcohol
BT Biomass fuels
RT Cassava
METHODOLOGY
RT Research methods
Methyl Alcohol
USE METHANOL
Micro-Hydro Power
USE HYDROELECTRIC ENERGY/POWER
USE SMALL-SCALE SYSTEMS
Micro-Wind Generators
USE WIND TURBINES
MICROBIAL PROCESSES
NT Aerobic digestion
NT Anaerobic digestion
RT Bacteria
RT Fermentation
MIDDLE DISTILLATES
BT Fuel oils
BT Petroleum
NT Diesel fuels
NT Kerosene
RT Refinery mix
RT Residual fuels
MIGRATION
RT Population dynamics
MILK PRODUCTS
UF Products (Milk)
BT Food
MILLET
UF Bajra
UF Jowar
UF Ragi
BT Grains
MILLET STALKS
BT Crop wastes
RT Cooking fuels
MILLING
UF Grain grinding

MIMOSINE
  RT Leucaena
Mineral Oil
  USE LUBRICANTS
MINERAL RESOURCES
  RT Minerals
  BT Natural resources
MINERALS
  RT Mineral resources
Mini-Hydro Power
  USE HYDROELECTRIC ENERGY/POWER
  USE SMALL-SCALE SYSTEMS
Ministries
  USE GOVERNMENT BODIES
Mobilizers
  USE FACILITATORS
MODELS
  NT Economic models
  NT Energy models
  NT Mathematical models
  NT Statistical models
  RT Simulation
MODERN TECHNOLOGY
  BT Technology
MOLASSES
  RT Sugar
MONSOONS
  RT Climates
  RT Drought
MOPEDS
  UF Motorized bicycles
  BT Vehicles
MOTIVATIONS
  RT Attitudes
  RT Behavior
MOTOR BOATS
  BT Boats
Motor Spirits
  USE GASOLINE
MOTORCYCLES
  BT Vehicles
Motorized Bicycles
  USE MOPEDS
MOTORIZED RICKSHAWS
  BT Vehicles
MOTORS
  RT Engines
MUNICIPAL WASTES
  UF Urban wastes
  BT Wastes
  RT Refuse-derived fuels
  RT Solid wastes
Mutton
  USE MEAT

NATIONAL ENERGY CONSUMPTION
  BT Energy consumption
NATIONAL GOVERNMENT
  (Use only when needed in conjunction with one or both of the terms LOCAL GOVERNMENT and STATE GOVERNMENT.)
  UF Central government
  NT Government bodies
  RT Government policy
  RT Laws
  RT Local government
  RT Regulations
  RT State government
National Organizations
  USE NON-GOVERNMENTAL ORGANIZATIONS
NATURAL GAS
  BT Fossil fuels
  BT Fuel gas
  BT Hydrocarbons
  NT Liquefied natural gas
  RT Biogas
  RT Methane
NATURAL RESOURCES
  UF Resources (Natural)
  NT Energy resources
  NT Marine resources
  NT Mineral resources
  NT Reserves
  NT Water resources
  RT Economic resources
  RT Human resources
  RT Resource conservation
NEED INDICATORS
  UF Indicators (need)
Needs (Basic)
  USE BASIC NEEDS
Needs (Energy)
  USE ENERGY NEEDS
Needs (Felt)
  USE FELT NEEDS
NET ENERGY
  UF Energy yield
  BT Energy analysis
  RT Efficiency
  RT Energy accounting
  RT Energy consumption
  RT Energy efficiency
  DEF Difference of energy output and energy input.
NEWSLETTERS
  BT Document types
Night Soil
  USE HUMAN EXCREMENT

NIPA PALMS
  BT Trees
NITROGEN
  RT Fertilizers
  RT Nitrogen fixation
NITROGEN CYCLE
  RT Fertilizers
  RT Nitrogen fixation
NITROGEN FIXATION
  NT Biological nitrogen fixation
  RT Bacteria
  RT Nitrogen
  RT Nitrogen cycle
  RT Plant growth
  RT Soils
NGO
  USE NON-GOVERNMENTAL ORGANIZATIONS
NOISE POLLUTION
  BT Pollution
NON-CHEMICAL PEST CONTROLS
  BT Pest controls
NON-GOVERNMENTAL ORGANIZATIONS
  UF National organizations
  UF NGO
  BT International organizations
NONRENEWABLE ENERGY SOURCES
  BT Energy sources
  NT Non-renewable fuels
  RT Renewable energy sources
NON-RENEWABLE FUELS
  BT Fuels
  BT Nonrenewable energy sources
  NT Fossil fuels
  NT Nuclear fuels
  RT Fuel substitution
NUCLEAR ENERGY/POWER
  BT Energy
  BT Power
  RT Electric energy/power
NUCLEAR FUELS
  UF Fuels (Nuclear)
  UF Reactor fuels
  BT Energy sources
  BT Fuels
  BT Non-renewable fuels
  RT Uranium
NUCLEAR RADIATION
  UF Radiation (Nuclear)
Nuclear Wastes
  USE RADIOACTIVE WASTES
NUTRIENTS
  RT Fertilizers
  RT Food
  RT Nutrition
NUTRITION
  RT Diet
  RT Food
  RT Food requirements
  RT Malnutrition
  RT Nutrients
  RT Proteins
Nutritional Deficiency
  USE MALNUTRITION
OBJECTIVES
  RT Planning
Occupational Hazards
  USE WORKING CONDITIONS
OCCUPATIONS
  UF Professions
  RT Employment
  RT Labor
  RT Manpower
  RT Vocational training
  RT Workers
Ocean Current Energy/Power
  USE OCEAN MOTION ENERGY/POWER
Ocean Farms
  USE AQUACULTURE
OCEAN MOTION ENERGY/POWER
  UF Ocean current energy/power
  UF Tidal energy/power
  UF Wave energy/power
  BT Energy
  BT Power
  BT Renewable energy sources
OCEAN MOTION ENERGY CONVERSION
  UF OMEC
  BT Energy conversion
  RT Tidal power plants
OCEAN THERMAL ENERGY CONVERSION
  UF OTEC
  BT Energy conversion
  BT Solar energy conversion
  RT Ocean thermal power plants
OCEAN THERMAL ENERGY/POWER
  BT Energy
  BT Power
  BT Renewable energy sources
OCEAN THERMAL POWER PLANTS
  UF Solar sea power plants
  BT Electric power plants
  RT Ocean thermal energy conversion
OCEANS
OFFICE BUILDINGS
  BT Buildings
Oil Companies
  USE PETROLEUM INDUSTRY
OIL PALMS

BT Trees
OIL SHALES
BT Fossil fuels
OILS
NT Coconut oil
NT Fuel oils
NT Residual fuels
NT Vegetable oils
RT Hydrocarbons
OMEC
USE OCEAN MOTION ENERGY CONVERSION
OPERATION
RT Maintenance
RT Operating costs
OPERATING COSTS
BT Costs
RT Maintenance costs
RT Operation
Ore Reserves
USE RESERVES
ORGANIC WASTES
BT Wastes
Organization (Social)
USE SOCIAL ORGANIZATION
ORGANIZATIONAL DEVELOPMENT
BT Development
RT Institutional development
Organizations (International)
USE INTERNATIONAL ORGANIZATIONS
Organizations (Voluntary)
USE VOLUNTARY ORGANIZATIONS
ORGANIZING
RT Planning
RT Workers
OTEC
USE OCEAN THERMAL ENERGY CONVERSION
OVENS
BT Appliances
RT Food preparation
RT Stoves
OXEN
BT Livestock
OXYGEN
BT Gases
PAPER
BT Wood products
PAPERMAKING
RT Wood pulp
PARABOLIC COLLECTORS
UF Parabolic reflectors
BT Concentrating collectors
Parabolic Reflectors
USE PARABOLIC COLLECTORS
PARTICIPATORY RESEARCH
BT Participatory Action Research
PARTICIPATORY ACTION RESEARCH
BT Research
NT Action research
NT Participatory research
RT Development education
RT Facilitators
RT Gaun sallah
RT Research methods
RT Sondeo
PATHOGENS
RT Bacteria
RT Diseases
PEDAL ENERGY/POWER
BT Human energy/power
Perceived Needs
USE FELT NEEDS
PERFORMANCE
RT Efficiency
RT Productivity
RT Reliability
PERFORMANCE MODELING
PERIODICITY
BT Variations
NT Diurnal variations
NT Seasonal variations
Personnel
USE WORKERS
PEST CONTROL
NT Non-chemical pest controls
RT Agriculture
RT Insects
RT Pesticides
PESTICIDES
NT Herbicides
RT Agriculture
RT Pest control
RT Pollution
PETROLEUM
UF Crude oil
BT Fossil fuels
NT Liquefied petroleum gas
NT Middle distillates
RT Distillation
RT Hydrocarbons
RT Refineries
PETROLEUM CONSUMPTION
BT Consumption
RT Petroleum demand
PETROLEUM DEMAND
BT Demand
RT Petroleum consumption
RT Petroleum distribution
RT Petroleum supply

PETROLEUM DISTRIBUTION
BT Distribution
RT Petroleum demand
RT Petroleum market
RT Petroleum supply
PETROLEUM EXPLORATION
RT Petroleum industry
PETROLEUM INDUSTRY
UF Oil companies
BT Industry
RT Petroleum exploration
RT Petroleum pricing
RT Petroleum production
PETROLEUM MARKET
BT Market
RT Petroleum distribution
RT Petroleum pricing
PETROLEUM PRICING
BT Pricing
RT Petroleum industry
RT Petroleum market
PETROLEUM PRODUCTION
BT Production
RT Petroleum industry
RT Refineries
PETROLEUM STORAGE
BT Storage
RT Storage tanks
RT Petroleum supply
RT Petroleum transport
PETROLUEM SUPPLY
BT Supply
RT Petroleum demand
RT Petroleum distribution
RT Petroleum storage
PETROLEUM TRANSPORT
BT Transport
RT Petroleum storage
PHOSPHATES
RT Fertilizers
PHOTOCHEMICAL REACTIONS
UF Reactions (Photochemical)
NT Photosynthesis
RT Photochemistry
PHOTOCHEMISTRY
UF Chemistry (Photo)
RT Photochemical reactions
RT Photosynthesis
PHOTOSYNTHESIS
BT Photochemical reactions
RT Photochemistry
RT Plant growth
PHOTOVOLTAIC CELLS
UF Cells (Photovoltaic)
UF PVC
NT Solar cells
RT Photovoltaic conversion
RT Photovoltaic effect
RT Solar cell arrays
PHOTOVOLTAIC CONVERSION
RT Photovoltaic cells
PHOTOVOLTAIC EFFECT
RT Energy conversion
RT Photovoltaic cells
PHOTOVOLTAIC POWER PLANTS
BT Electric power plants
BT Solar power plants
NT Solar cell arrays
PIGGERIES
RT Feedlots
RT Swine
Pigs
USE SWINE
PILOT PLANTS
UF Experimental plants
UF Plants (Pilot)
RT Demonstration plants
PILOT PROJECTS
UF Projects (Pilot)
RT Development projects
PLANNING
(Projected design of plants or equipment as well as projected human efforts.)
NT Agricultural planning
NT Development planning
NT Economic planning
NT Energy planning
NT Family planning
NT Forestry planning
NT Health planning
NT Rural planning
RT Budgets
RT Decision making
RT Delphi method
RT Demonstration programs
RT Design
RT Objectives
RT Organizing
RT Production
RT Regional cooperation
RT Research programs
RT Site selection
Plans (Development)
USE DEVELOPMENT PLANS
PLANT BREEDING
RT Plants
PLANT FIBERS

BT Plant products
NT Cotton
RT Fiber crops
PLANT GROWTH
UF Growth (Plant)
RT Biological productivity
RT Hydroponic culture
RT Nitrogen fixation
RT Photosynthesis
RT Plants
PLANT PRODUCTS
UF Products (Plant)
NT Forest products
NT Fruits
NT Grains
NT Green manures
NT Plant fibers
RT Agriculture
RT Plants
Plant Wastes
USE CROP WASTES
PLANTING
BT Cultivation practices
PLANTS
UF Vegetation
BT Biomass
NT Algae
NT Aquatic plants
NT Fungi
NT Grass
NT Legumes
NT Shrubs
NT Trees
NT Vegetables
NT Weeds
RT Agricultural wastes
RT Agriculture
RT Fertilizers
RT Plant breeding
RT Plant growth
RT Plant products
RT Soils
Plants (Demonstration)
USE DEMONSTRATION PLANTS
Plants (Pilot)
USE PILOT PLANTS
Plants (Power)
USE ELECTRIC POWER PLANTS
PLASTICS
PLUG FLOW DIGESTERS
UF Tubular digesters
BT Anaerobic digesters
Policy
USE GOVERNMENT POLICY
POLICY MAKING
RT Decision making
RT Government policy
RT Implementation
Rt Policy research
POLICY RESEARCH
BT Research
Rt Policy making
POLITICAL ASPECTS
UF Aspects (Political)
POLLUTION
NT Air pollution
NT Land pollution
NT Noise pollution
NT Water pollution
RT Chemical effluents
RT Environment
RT Environmental laws
RT Industrial wastes
RT Pesticides
POLLUTION ABATEMENT
POLLUTION CONTROL
Pollution Laws
USE ENVIRONMENTAL LAWS
Pollution Regulations
USE ENVIRONMENTAL LAWS
PONDS
UF Pools
NT Aquaculture ponds
NT Solar ponds
Pools
USE PONDS
POOR
UF Poor people
NT Rural poor
NT Urban poor
RT Economics
RT Elite
RT Income
RT Income distribution
RT Poverty
RT Socio-economic factors
Poor People
USE POOR
POPULATION
UF Human population
NT Rural populations
NT Urban populations
RT Population density
RT Population distribution
RT Population dynamics
RT Population size
Population Changes
USE POPULATION DYNAMICS

POPULATION CONTROL
  NT Birth control
POPULATION DENSITY
  UF Density (Population)
  RT Population dynamics
  RT Population
POPULATION DISTRIBUTION
  UF Distribution (Population)
  RT Population
POPULATION DYNAMICS
  UF Changes (Population)
  UF Population changes
  NT Population growth
  RT Migration
  RT Population density
  RT Population
POPULATION GROWTH
  UF Growth (Population)
  BT Population dynamics
  RT Birth control
POPULATION SIZE
  RT Population
Pork
  USE MEAT
PORTS
  BT Transport infrastructure
POSTERS
  BT Document types
Potable Water
  USE DRINKING WATER
POULTRY
  BT Fowl
  NT Chickens
  NT Ducks
  RT Eggs
  RT Poultry farms
POULTRY FARMS
  RT Feedlots
  RT Poultry
POVERTY
  BT Social problems
  RT Income distribution
  RT Poor
POWER
  NT Animal energy/power
  NT Biomass energy/power
  NT Dendrothermal energy/power
  NT Electric energy/power
  NT Geothermal energy/power
  NT Human energy/power
  NT Hydroelectric energy/power
  NT Nuclear energy/power
  NT Ocean motion energy/power
  NT Ocean thermal energy/power
  NT Solar energy/power
  NT Wind energy/power
  RT Energy
POWER TILLERS
  BT Agricultural machinery
Prad-type Digesters
  USE FIXED-DOME DIGESTERS
PRAWNS
  UF Shrimp
Prediction
  USE FORECASTING
Preservation
  USE FOOD PRESERVATION
PRICES
  NT Retail prices
  RT Costs
  RT Economics
  RT Market
  RT Pricing
PRICING
  NT Petroleum pricing
  RT Prices
PROBLEM SOLVING
  RT Dispute settlement
PROCEEDINGS
  BT Document types
PROCESS ANALYSIS
  UF Analysis (Process)
PROCESS HEAT
  RT Industrial energy consumption
  RT Solar heating
Processing (Data)
  USE DATA PROCESSING
Processing (Wastes)
  USE WASTE PROCESSING
PRODUCER GAS
  UF Wood gas
  BT Fuel gas
  BT Low BTU gas
PRODUCTION
  UF Economic production
  UF Production (Economic)
  NT Industrial production
  NT Petroleum production
  RT Capacity
  RT Construction
  RT Fabrication
  RT Gross domestic product
  RT Gross national product
  RT Manufacturing
  RT Planning
  RT Productivity
Production (Agricultural)
  USE AGRICULTURAL PRODUCTION

PRODUCTION COSTS
BT Costs
Production (Economic)
USE PRODUCTION
Production (Energy)
USE ENERGY PRODUCTION
Production (Food)
USE FOOD PRODUCTION
Production (Protein)
USE PROTEIN PRODUCTION
PRODUCTIVITY
UF Economic productivity
UF Productivity (Economic)
NT Labor productivity
RT Efficiency
RT Performance
RT Production
Productivity (Agricultural)
USE AGRICULTURAL PRODUCTIVITY
Productivity (Biological)
USE BIOLOGICAL PRODUCTIVITY
Productivity (Economic)
USE PRODUCTIVITY
Productivity (Labor)
USE LABOR PRODUCTIVITY
Products (Fish)
USE FISH PRODUCTS
Products (Milk)
USE MILK PRODUCTS
Products (Plant)
USE PLANT PRODUCTS
Professions
USE OCCUPATIONS
Programs (Demonstration)
USE DEMONSTRATION PROGRAMS
Programs (Gasohol)
USE GASOHOL PROGRAMS
Programs (Research)
USE RESEARCH PROGRAMS
Programs (Training)
USE TRAINING PROGRAMS
PROJECT PROPOSALS
RT Development projects
PROJECT REPORTS
BT Reports
RT Development reports
PROJECTIONS
RT Forecasts
RT Trends
Projects (Development)
USE DEVELOPMENT PROJECTS
Projects (Pilot)
USE PILOT PROJECTS
Projects (Research)
USE RESEARCH PROJECTS
PROPANE
BT Liquefied petroleum gas
PROPERTIES
Protection
USE SAFETY
PROTEIN PRODUCTION
UF Production (Protein)
PROTEINS
NT Animal proteins
NT Vegetable proteins
RT Food
RT Nutrition
RT Single cell protein
PSYCHOLOGICAL ASPECTS
UF Aspects (Psychological)
PSYCHOLOGY
PUBLIC HEALTH
BT Health
RT Health hazards
RT Health services
PUBLIC LANDS
RT Reserves
PUBLIC SERVICES
(Use in connection with services supplied to the population as a whole and controlled by the national or local government, such as water, gas, electricity, etc.)
UF Public utilities
UF Services (Public)
Public Utilities
USE PUBLIC SERVICES
Pulps
USE SLURRIES
Pulses
USE LEGUMES
PUMPED STORAGE
BT Energy storage
BT Storage
RT Hydroelectric power plants
RT Pumping
PUMPING
RT Irrigation
RT Pumped storage
RT Pumps
PUMPS
UF Hydraulic rams
NT Humphrey pumps
NT Solar water pumps
RT Heat pumps
RT Irrigation equipment
PURIFICATION

UF Scrubbing
RT Gases
RT Pumping

PVC
USE PHOTOVOLTAIC CELLS

PYROLYSIS
UF Thermal decomposition
RT Decomposition
RT Fuel oils
RT Synthetic fuels

QUESTIONNAIRES
RT Surveys

Radiation (Nuclear)
USE NUCLEAR RADIATION

Radiation (Solar)
USE SOLAR RADIATION

Radiation (Thermal)
USE THERMAL RADIATION

RADIATIVE COOLING
BT Cooling
RT Air conditioning
RT Solar air conditioning
RT Thermal radiation

RADIOACTIVE WASTES
UF Nuclear wastes
BT Wastes
RT Waste disposal

RADIOS

Ragi
USE MILLET

RAILWAYS
BT Transport
RT Transport infrastructure
RT Land transport
RT Vehicles

RAIN
RT Rainfall

RAINFALL
RT Drought
RT Floods
RT Rain
RT Weather

RANKINE CYCLE
UF Steam cycle
RT Thermodynamics

Reactions (Photochemical)
USE PHOTOCHEMICAL REACTIONS

Reactor Fuels
USE NUCLEAR FUELS

REACTOR SAFETY
UF Safety (Reactor)
BT Safety
RT Reliability
RT Site selection

Reactor Siting
USE SITE SELECTION

RECOMMENDATIONS
RT Guidelines
RT Manuals
RT Research programs

Records Retrieval
USE INFORMATION RETRIEVAL

RECYCLING
RT Energy conservation
RT Resource conservation
RT Waste utilization

REFINERIES
RT Petroleum
RT Petroleum production
RT Refinery mix

REFINERY MIX
RT Gasoline
RT Liquefied petroleum gas
RT Middle distillates
RT Refineries
RT Residual fuels

REFORESTATION
RT Afforestation
RT Forestry
RT Forests

REFRIGERATION
BT Cooling
NT Solar refrigeration
RT Food preservation
RT Heat pumps
RT Refrigerators

REFRIGERATORS
BT Electric appliances
NT Solar refrigerators
NT Thermoelectric refrigerators
RT Refrigeration

Refuse
USE SOLID WASTES

REFUSE-DERIVED FUELS
BT Fuels
RT Agricultural wastes
RT Industrial wastes
RT Municipal wastes
RT Solid wastes

REGIONAL ANALYSIS
UF Analysis (Regional)
UF Area study
UF Studies (Area)
RT Environment
RT Geography
DEF Evaluation of the characteristics of a region and their economic, ecological, or

social implications.
REGIONAL COOPERATION
BT International cooperation
RT Decision making
RT Energy policy
RT Planning
Regional Government
USE STATE GOVERNMENT
Regions (Coastal)
USE COASTAL REGIONS
REGULATIONS
RT Laws
RT Legal aspects
RT Local government
RT National government
RT State government
REINFORCED CONCRETE
BT Construction materials
BT Concretes
NT Cements
RELIABILITY
RT Intermittency
RT Performance
RT Reactor safety
RT Systems analysis
REMOTE SENSING
RENEWABLE ENERGY SOURCES
BT Energy sources
NT Biomass energy/power
NT Geothermal energy/power
NT Hydroelectric energy/power
NT Ocean motion energy/power
NT Ocean thermal energy/power
NT Solar energy/power
NT Wind energy/power
RT Nonrenewable energy sources
REPORTS
BT Document types
NT Development reports
NT Project reports
NT Research reports
REQUIREMENTS
NT Agricultural requirements
NT Energy requirements
NT Food requirements
NT Land requirements
NT Water requirements
RESEARCH
UF Scientific research
NT Agricultural research
NT Applied research
NT Basic research
NT Development research
NT Economic research
NT Energy research
NT Field research
NT Fishery research
NT Forestry research
NT Participatory Action Research
NT Policy research
NT Research and development
NT Social research
RT Research methods
RT Research policy
RT Research programs
RT Research projects
RT Research reports
RESEARCH AND DEVELOPMENT
BT Research
RT Applied research
RESEARCH CENTERS
UF Centers (Research)
UF Institutes (Research)
UF Research institutes
RT Development centers
Research Institutes
USE RESEARCH CENTERS
RESEARCH METHODS
BT Evaluation techniques
NT Data collection
NT Interdisciplinary research
NT Simulation
NT Statistical analysis
NT Surveys
RT Field research
RT Measurement
RT Methodology
RT Participatory Action Research
RT Research
RESEARCH POLICY
RT Research
RESEARCH PROGRAMS
(Use jointly with descriptor(s) for subject field and/or organization concerned.)
UF Programs (Research)
NT Research projects
RT Demonstration programs
RT Information needs
RT Planning
RT Recommendations
RT Research
RESEARCH PROJECTS
UF Projects (Research)
BT Research programs
RT Feasibility studies
RT Research
RESEARCH REPORTS

BT Reports
RT Research

RESERVES
UF Ore reserves
UF Fossil fuel reserves
BT Natural resources
RT Public lands
RT Resource assessment
DEF Usually is applied to available, recoverable, natural resources that can be economically mined or otherwise made available for consumption at present prices.

Reservoirs (Water)
USE WATER RESERVOIRS

Residences
USE HOUSES

RESIDENTIAL SECTOR
NT Household sector

Residual Fuel Oil
USE RESIDUAL FUELS

RESIDUAL FUELS
UF Bunker oils
UF Heavy fuels
UF Residual fuel oil
BT Fuel oils
BT Fuels
BT Oils
RT Middle distillates
RT Refinery mix

Residues
USE WASTES

RESOURCE ASSESSMENT
UF Assessment (Resource)
RT Reserves

RESOURCE CONSERVATION
BT Conservation
NT Soil conservation
RT Energy conservation
RT Recycling
RT Natural resources

RESOURCE CONSUMPTION

RESOURCE DEPLETION

RESOURCE MANAGEMENT
BT Management
NT Watershed management

Resources (Economic)
USE ECONOMIC RESOURCES

Resources (Human)
USE HUMAN RESOURCES

Resources (Natural)
USE NATURAL RESOURCES

RESTAURANTS
BT Buildings

RETAIL PRICES
BT Prices

RETORTS

REVIEWS
BT Document types

RICE
BT Grains

Rice Hull
USE RICE HUSKS

RICE HUSKS
UF Rice hull
BT Crop wastes

RICE PADDIES
BT Croplands

RICE STRAW
BT Crop wastes
RT Cooking fuels

RISK ASSESSMENT
UF Assessment (Risk)
RT Financial incentives
RT Fuel cycle

RISKS
RT Hazards

RIVERS
BT Inland waterways
RT Watersheds

Road Transport
USE LAND TRANSPORT

ROADS
UF Highways
UF Streets
BT Transport infrastructure
RT Transport

ROOT CROPS
BT Crops
NT Cassava
RT Food crops

RUBBER

Rubber-type Digesters
USE BAG-TYPE DIGESTERS

RURAL AREAS
RT Rural energy centers
RT Rural energy consumption
RT Rural populations

RURAL COMMUNITIES
BT Communities
RT Villages

RURAL DEVELOPMENT
BT Development
RT Agricultural projects
RT Area-level planning
RT Economic development
RT Rural planning

RURAL DEVELOPMENT POLICY
  BT Development policy
  RT Energy policy
RURAL DEVELOPMENT PROJECTS
  BT Development projects
RURAL ECOSYSTEMS
  BT Ecosystems
RURAL ELECTRIFICATION
  UF Village electrification
RURAL ENERGY CENTERS
  UF Centers (Rural Energy)
  RT Development centers
  RT Rural areas
RURAL ENERGY CONSUMPTION
  BT Energy consumption
  RT Rural areas
RURAL INDUSTRY
  UF Industry (Rural)
  BT Industry
  RT Cottage industry
RURAL PLANNING
  BT Planning
  RT Rural development
RURAL POOR
  BT Poor
RURAL POPULATIONS
  BT Population
  RT Rural areas
RURAL SANITATION
  BT Sanitation
SAFETY
  UF Protection
  NT Reactor safety
  RT Hazards
  RT Health hazards
  RT Security
  RT Workers
  RT Working conditions
Safety (Reactor)
  USE REACTOR SAFETY
SAGO PALMS
  BT Trees
SAIL BOATS
  BT Boats
SALT GRADIENT SOLAR PONDS
  BT Solar ponds
SAND
  RT Construction materials
  RT Clays
  RT Concretes
  RT Soils
SANITATION
  NT Rural sanitation
  RT Diseases
  RT Health
  RT Water pollution
SCHOOLS
  BT Buildings
Science and Technology Policy
  USE SCIENCE POLICY
SCIENCE POLICY
  UF Science and technology policy
  BT Government policy
SCIENTIFIC COOPERATION
Scientific Research
  USE RESEARCH
Scrubbing
  USE PURIFICATION
Sea Transport
  USE MARINE TRANSPORT
SEAFOOD
  BT Fish products
  BT Food
  RT Fishes
SEASONAL EMPLOYMENT
  BT Employment
SEASONAL VARIATIONS
  BT Periodicity
  BT Variations
  RT Seasons
SEASONS
  RT Climates
  RT Seasonal variations
  RT Weather
SEAWATER
  BT Water
  RT Desalination
Seaweed
  USE ALGAE
SECOND LAW EFFICIENCY
  RT Efficiency
Sector (Agricultural)
  USE AGRICULTURAL SECTOR
Sector (Commercial)
  USE COMMERCIAL SECTOR
Sector (Household)
  USE HOUSEHOLD SECTOR
Sector (Industrial)
  USE INDUSTRIAL SECTOR
Sector (Residential)
  USE RESIDENTIAL SECTOR
Sector (Transportation)
  USE TRANSPORTATION SECTOR
SECURITY
  RT Safety
SEDIMENTS
  RT Sludges
SELF-RELIANCE

(Reliance primarily on a country's own resources, human and natural, and the capacity for autonomous goal-setting and decision making.)
RT Dependence
SERVICE LIFE
UF Life (Service)
UF Life expectancy
UF Useful life
Services (Public)
USE PUBLIC SERVICES
Services (Voluntary)
USE VOLUNTARY SERVICES
SEWAGE
BT Wastes
NT Sewage sludge
RT Human wastes
RT Water pollution
RT Water treatment
SEWAGE SLUDGE
BT Sewage
SHEEP
BT Livestock
RT Meat
Shipment
USE TRANSPORT
Shipping
USE MARINE TRANSPORT
Ships
USE BOATS
Shrimp
USE PRAWNS
SHRUBS
BT Plants
SILVICULTURE
UF Sylviculture
BT Forestry
SIMULATION
BT Research methods
RT Models
RT Systems analysis
SINGLE CELL PROTEINS
UF Cells (Protein)
RT Proteins
DEF Feed and food protein derived from single cell micro-organisms grown on various resources and wastes.
SITE SELECTION
UF Reactor siting
RT Environment
RT Planning
RT Reactor safety
SLUDGES
RT Sediments
RT Slurries
RT Soil conservation
RT Wastes
SLURRIES
UF Pulps
RT Sewage sludge
RT Sludges
SMALL BUSINESSES
RT Commercial sector
Small Industry
USE SMALL-SCALE INDUSTRY
SMALL-SCALE INDUSTRY
UF Small industry
BT Industry
NT Cottage industry
SMALL-SCALE SYSTEMS
UF Systems (Small-scale)
SMOKE
RT Air pollution
RT Combustion
SNG
USE SYNTHETIC NATURAL GAS
SOCIAL ASPECTS
UF Aspects (Social)
SOCIAL CHANGE
UF Change (Social)
RT Social development
SOCIAL CONDITIONS
UF Conditions (Social)
SOCIAL DEVELOPMENT
UF Development (Social)
RT Social change
SOCIAL IMPACTS
UF Impacts (Social)
RT Socio-economic factors
SOCIAL INDICATORS
UF Indicators (Social)
RT Basic needs
RT Economic indicators
SOCIAL ORGANIZATION
UF Organization (Social)
SOCIAL PROBLEMS
NT Famine
NT Malnutrition
NT Poverty
NT Unemployment
RT Diseases
RT Social services
SOCIAL RESEARCH
BT Research
SOCIAL SERVICES

NT Health services
RT Social problems
SOCIAL SURVEYS
BT Surveys
SOCIO-ECONOMIC FACTORS
UF Factors (Socio-economic)
RT Economic impacts
RT Economics
RT Poor
RT Social impacts
SOCIOLOGICAL ANALYSIS
UF Analysis (Sociological)
SOIL CHEMISTRY
UF Chemistry (Soil)
RT Agriculture
RT Fertilizers
RT Soil conservation
RT Soils
SOIL CONDITIONERS
RT Fertilizers
RT Soils
SOIL CONSERVATION
BT Conservation
BT Resource conservation
RT Agriculture
RT Fertilizers
RT Irrigation
RT Land reclamation
RT Sludges
RT Soil chemistry
RT Soils
RT Waste disposal
RT Watershed management
Soil Loss
USE EROSION
SOILS
RT Agriculture
RT Clays
RT Erosion
RT Ground water
RT Irrigation
RT Nitrogen fixation
RT Plants
RT Sand
RT Soil chemistry
RT Soil conditioners
RT Soil conservation
SOLAR AIR CONDITIONERS
BT Air conditioners
NT Solar-assisted heat pumps
RT Solar air conditioning
SOLAR AIR CONDITIONING
BT Air conditioning
RT Radiative cooling
RT Solar air conditioners
SOLAR AIR HEATERS
RT Flat plate collectors
DEF Solar collectors that use air as heat transfer fluid.
SOLAR-ASSISTED HEAT PUMPS
BT Heat exchangers
BT Heat pumps
BT Solar air conditioners
BT Solar heating systems
SOLAR-ASSISTED POWER SYSTEMS
UF Systems (Solar-assisted Power)
RT Heat engines
RT Thermal energy storage systems
Solar Batteries
USE SOLAR CELL ARRAYS
SOLAR BATTERY CHARGERS
SOLAR CELL ARRAYS
UF Solar batteries
BT Photovoltaic power plants
BT Solar power plants
RT Photovoltaic cells
RT Solar cells
SOLAR CELLS
UF Solar photovoltaics
BT Photovoltaic cells
RT Solar cell arrays
SOLAR CONCENTRATORS
NT Solar reflectors
RT Concentrating collectors
SOLAR CONSTANT
RT Solar radiation
SOLAR COOKERS
RT Solar cooking
RT Solar ovens
RT Stoves
SOLAR COOKING
RT Solar cookers
RT Solar heating
SOLAR COOLING
BT Cooling
RT Solar refrigeration
SOLAR DISTILLATION
BT Distillation
RT Solar stills
SOLAR DRYERS
BT Dryers
RT Solar furnaces
SOLAR DRYING
BT Drying
RT Solar heating
SOLAR ENERGY/POWER
BT Energy
BT Power

BT Renewable energy sources
RT Electric energy/power
RT Solar heating
RT Solar radiation
RT Solar rights

SOLAR ENERGY CONVERSION
BT Energy conversion
NT Ocean thermal energy conversion

SOLAR FURNACES
BT Furnaces
RT Solar dryers
RT Solar kilns

SOLAR HEAT ENGINES
BT Heat engines
RT Stirling engines

SOLAR HEATING
BT Heating
NT Solar space heating
RT Process heat
RT Solar cooking
RT Solar drying
RT Solar energy/power

SOLAR HEATING SYSTEMS
UF Systems (Solar heating)
NT Solar-assisted heat pumps
RT Solar space heating

SOLAR KILNS
BT Kilns
RT Drying
RT Solar furnaces
RT Solar ovens

SOLAR OVENS
RT Solar cookers
RT Solar kilns

Solar Photovoltaics
USE SOLAR CELLS

SOLAR PONDS
BT Ponds
NT Salt gradient solar ponds
RT Solar water heaters

SOLAR POWER PLANTS
(Refers only to power plants that directly use solar energy as an energy source.)
BT Electric power plants
NT Photovoltaic power plants
NT Solar cell arrays
NT Solar thermal power plants

SOLAR RADIATION
UF Radiation (Solar)
RT Insolation
RT Solar constant
RT Solar energy/power

SOLAR REFLECTORS
BT Solar concentrators

SOLAR REFRIGERATION
BT Cooling
BT Refrigeration
RT Solar cooling
RT Solar refrigerators

SOLAR REFRIGERATORS
BT Refrigerators
RT Solar refrigeration

SOLAR RIGHTS
RT Laws
RT Legal aspects
RT Solar energy/power

Solar Sea Power Plants
USE OCEAN THERMAL POWER PLANTS

SOLAR SPACE HEATING
BT Heating
BT Solar heating
BT Space heating
RT Solar heating systems

SOLAR STILLS
RT Solar distillation
DEF A distillation apparatus that uses solar radiation heating to evaporate liquids.

SOLAR THERMAL POWER PLANTS
BT Electric power plants
BT Solar power plants

SOLAR WATER HEATERS
BT Water heaters
RT Solar ponds
RT Solar water heating

SOLAR WATER HEATING
BT Water heating
RT Solar water heaters

SOLAR WATER PUMPS
BT Pumps

SOLID FUELS
BT Fuels
NT Briquets

SOLID WASTES
UF Refuse
BT Wastes
RT Chemical effluents
RT Industrial wastes
RT Municipal wastes
RT Refuse-derived fuels
RT Waste disposal

SONDEO
RT Participatory Action Research

SORGHUM
BT Grains

SOYBEANS

BT Legumes
SPACE HEATERS
BT Appliances
RT Space heating
SPACE HEATING
BT Heating
NT Solar space heating
RT Degree days
RT Space heaters
RT Wood burning furnaces
SPARK IGNITION ENGINES
BT Engines
RT Automobiles
RT Combustion
RT Gasohol
RT Gasoline
RT Methane
STANDARDIZATION
STATE GOVERNMENT
UF District government
UF Regional government
RT Government policy
RT Local government
RT National government
RT Regulations
STATISTICAL ANALYSIS
UF Analysis (Statistical)
BT Research methods
RT Data
RT Statistics
STATISTICAL DATA BASES
BT Data bases
STATISTICAL MODELS
BT Mathematical models
BT Models
RT Systems analysis
STATISTICS
NT Economic statistics
NT Energy statistics
NT Forestry statistics
RT Data
RT Statistical analysis
STEAM
UF Steam coolant
RT Steam generation
RT Steam generators
RT Water
Steam Coolant
USE STEAM
Steam Cycle
USE RANKINE CYCLE
STEAM ENGINES
BT Engines
STEAM GENERATION
UF Generation (Steam)
RT Steam
RT Steam generators
STEAM GENERATORS
UF Generators (Steam)
BT Boilers
RT Heat exchangers
RT Heat transfer
RT Steam
RT Steam generation
STEAM TURBINES
BT Turbines
STEEL
BT Metals
RT Construction materials
RT Iron
STERILIZATION
RT Food
RT Food preservation
STIRLING CYCLE
RT Stirling engines
RT Thermodynamics
STIRLING ENGINES
BT Heat engines
RT Solar heat engines
RT Stirling cycle
STORAGE
NT Energy storage
NT Food storage
NT Heat storage
NT Petroleum storage
NT Pumped storage
RT Capacity
RT Fuel reserves
RT Storage tanks
RT Transport
RT Water reservoirs
Storage Batteries
USE ELECTRIC BATTERIES
STORAGE TANKS
BT Tanks
RT Petroleum storage
RT Storage
STOVES
UF Chula
BT Appliances
BT Electric appliances
NT Biogas stoves
NT Lorena stoves
RT Food preparation
RT Ovens
RT Solar cookers
Strategies (Energy)
USE ENERGY POLICY

Strategy (Development)
  USE DEVELOPMENT STRATEGY
STREET LIGHTING
  BT Lighting
Streets
  USE ROADS
Structural Materials
  USE CONSTRUCTION MATERIALS
Studies (Area)
  USE REGIONAL ANALYSIS
Studies (Case)
  USE CASE STUDIES
Studies (Feasibility)
  USE FEASIBILITY STUDIES
SUBSIDIES
  UF Government subsidies
SUBURBS
  RT Urban areas
  RT Urban communities
SUGAR
  BT Carbohydrates
  RT Molasses
SUGAR CANE
  BT Biomass
  BT Plants
  RT Bagasse
SUNLIGHT
SUPPLY
  BT Supply and demand
  NT Petroleum supply
  NT Water supply
SUPPLY AND DEMAND
  NT Demand
  NT Supply
  RT Economic elasticity
  RT Economics
  RT Market
  RT Trade
SURPLUSES
  NT Agricultural surpluses
SURVEYS
  BT Data collection
  BT Research methods
  NT Economic surveys
  NT Energy surveys
  NT Social surveys
  RT Mapping
  RT Questionnaires
SWINE
  UF Pigs
  BT Livestock
  RT Meat
  RT Piggeries
Sylviculture
  USE SILVICULTURE
Synfuels
  USE SYNTHETIC FUELS
SYNTHETIC FUELS
  UF Synfuels
  BT Fuels
  NT Synthetic natural gas
  RT Aerobic digestion
  RT Alcohol
  RT Anaerobic digestion
  RT Coal gasification
  RT Coal liquefaction
  RT Fuel gas
  RT Fuel oils
  RT Pyrolysis
SYNTHETIC NATURAL GAS
  UF SNG
  BT Synthetic fuels
SYSTEMS ANALYSIS
  (Used in the fields of technology research and management for problems such as the calculation of failure probabilities and for reliability studies of systems and components.)
  UF Analysis (Systems)
  RT Energy analysis
  RT Reliability
  RT Simulation
  RT Statistical models
Systems (Back-up Energy)
  USE BACK-UP ENERGY SYSTEMS
Systems (Community Scale)
  USE COMMUNITY SCALE SYSTEMS
Systems (Family Scale)
  USE FAMILY SCALE SYSTEMS
Systems (Farming)
  USE FARMING SYSTEMS
Systems (Food Delivery)
  USE FOOD DELIVERY SYSTEMS
Systems (Food Supply)
  USE FOOD SUPPLY SYSTEMS
Systems (Information)
  USE INFORMATION SYSTEMS
Systems (Irrigation)
  USE IRRIGATION SYSTEMS
Systems (Lighting)
  USE LIGHTING SYSTEMS
Systems (Small-scale)
  USE SMALL-SCALE SYSTEMS
Systems (Solar-assisted Power)
  USE SOLAR-ASSISTED POWER SYSTEMS
Systems (Solar Heating)
  USE SOLAR HEATING SYSTEMS

Systems (Thermal Energy Storage)
USE THERMAL ENERGY STORAGE SYSTEMS
Systems (Total Energy)
USE TOTAL ENERGY SYSTEMS
Systems (Transportation)
USE TRANSPORTATION SYSTEMS
Taiwan-type Digesters
USE BAG-TYPE DIGESTERS
TANKS
NT Storage tanks
RT Water reservoirs
TEA DRYING
BT Crop drying
TECHNICAL ASPECTS
UF Aspects (Technical)
UF Technical specifications
TECHNICAL ASSISTANCE
RT International cooperation
RT Technology transfer
Technical Specifications
USE TECHNICAL ASPECTS
TECHNOLOGICAL CHANGE
UF Change (Technological)
RT Innovations
RT Inventions
TECHNOLOGY
NT Alternative technology
NT Appropriate technology
NT Centralized technology
NT Decentralized technology
NT Energy technology
NT Intermediate technology
NT Modern technology
NT Traditional technology
RT Engineering
TECHNOLOGY ASSESSMENT
UF Assessment (Technology)
RT Benefit-cost analysis
RT Delphi method
RT Industry
TECHNOLOGY TRANSFER
RT Industry
RT Information
RT Technical assistance
TECHNOLOGY UTILIZATION
UF Utilization (Technology)
Rt Design
RT Industry
RT Users
TEMPERATURE
RT Climates
TEMPORAL ASPECTS
(Refers to time.)
UF Aspects (Temporal)
TENANT FARMERS
BT Farmers
TERRESTRIAL ECOSYSTEMS
BT Ecosystems
TESTING
RT Evaluation
TEXTILE INDUSTRY
BT Industry
Thermal Decomposition
USE PYROLYSIS
THERMAL EFFICIENCY
BT Efficiency
RT Thermodynamics
THERMAL ENERGY STORAGE SYSTEMS
UF Heat storage devices
UF Heat storage systems
UF Systems (Thermal Energy Storage)
RT Heat storage
RT Solar-assisted power systems
THERMAL INSULATION
UF Insulation (Thermal)
RT Heat transfer
Thermal Pollution (Air)
USE AIR POLLUTION
Thermal Pollution (Water)
USE WATER POLLUTION
THERMAL RADIATION
UF Radiation (Thermal)
RT Radiative cooling
THERMODYNAMICS
RT Carnot cycle
RT Energy
RT Enthalpy
RT Entropy
RT Heat sinks
RT Heat transfer
RT Rankine cycle
RT Stirling cycle
RT Thermal efficiency
Thermoelectric Cells
USE THERMOELECTRIC GENERATORS
THERMOELECTRIC CONVERSION
BT Energy conversion
RT Thermoelectric heaters
RT Thermoelectric generators
RT Thermoelectric refrigerators
Thermoelectric Converters
USE THERMOELECTRIC GENERATORS
Thermoelectric Coolers
USE THERMOELECTRIC REFRIGERATORS
THERMOELECTRIC GENERATORS
UF Cells (Thermoelectric)
UF Generation (Thermoelectric)
UF Thermoelectric cells

UF Thermoelectric converters
RT Thermoelectric conversion

Thermoelectric Heat Pumps
USE THERMOELECTRIC HEATERS
OR THERMOELECTRIC REFRIGERATORS

THERMOELECTRIC HEATERS
SF Thermoelectric heat pumps
RT Thermoelectric conversion

THERMOELECTRIC REFRIGERATORS
SF Thermoelectric heat pumps
UF Thermoelectric coolers
BT Electric appliances
BT Refrigerators
RT Thermoelectric conversion

THESAURI
BT Document types

Third World
USE DEVELOPING COUNTRIES

Tidal Energy/Power
USE OCEAN MOTION ENERGY/POWER

TIDAL POWER PLANTS
BT Electric Power Plants
RT Ocean motion energy conversion

TOOLS
RT Equipment

TOTAL ENERGY SYSTEMS
UF Integrated utility systems
UF Systems (Total Energy)
RT Cogeneration
RT Energy conversion
RT Energy consumption

TOURISM

TOWN GAS
(450 TO 550 Btu/cu. ft.)
BT Fuel gas
DEF Gas produced by a public utility for general use.

TOWNS
NT Boomtowns
RT Urban areas
RT Urban communities

TRACTORS
BT Agricultural machinery

TRADE
NT Foreign trade
RT Commercial sector
RT Economics
RT Marketing
RT Supply and demand

TRADE POLICY
BT Government policy
RT Foreign trade
RT Balance of payments

TRADITIONAL TECHNOLOGY
BT Technology

TRAINING
NT Vocational training
RT Education
RT Training programs

TRAINING PROGRAMS
UF Programs (Training)
RT Training

TRAINS
BT Vehicles

Transfer (Energy)
USE ENERGY TRANSFER

Transfer (Heat)
USE HEAT TRANSFER

Transmission (Data)
USE DATA TRANSMISSION

Transmission (Electric Power)
USE ELECTRIC POWER TRANSMISSION

Transmission (Energy)
USE ENERGY TRANSPORT

Transmission (Heat)
USE HEAT TRANSFER

TRANSPORT
(Limited to the movement of goods and persons.)
UF Shipment
NT Air transport
NT Coal transport
NT Land transport
NT Marine transport
NT Petroleum transport
NT Railways
RT Containers
RT Inland waterways
RT Roads
RT Storage
RT Transport infrastructure
RT Transportation systems

Transport (Energy)
USE ENERGY TRANSPORT

TRANSPORT INFRASTRUCTURE
(Use in connection with the construction of roads, railways, etc., as a basis for transport and further development.)
NT Bridges
NT Ports
NT Railways
NT Roads
NT Tunnels
RT Transport

TRANSPORTATION SECTOR
UF Sector (Transportation)

TRANSPORTATION SYSTEMS

UF Systems (Transportation)
RT Transport
Treaties
USE INTERNATIONAL AGREEMENTS
TREES
BT Plants
NT Coconut palms
NT Eucalyptus
NT Fruit trees
NT Leucaena
NT Nipa palms
NT Oil palms
NT Sago palms
RT Forest resources
RT Biomass energy farms
RT Energy forestry
RT Forests
RT Wood
TRENDS
(Distinguish between TRENDS (tendencies), PROJECTIONS (from data), and FORECASTS (estimates).
TRUCKS
UF Lorries
BT Vehicles
TUBEWELLS
BT Wells
Tubular Digesters
USE PLUG FLOW DIGESTERS
TUNNELS
BT Transport infrastructure
TURBINE BLADES
UF Blades (Turbines)
RT Turbines
TURBINES
NT Steam turbines
NT Water turbines
RT Hydroelectric power plants
RT Turbine blades
RT Wind turbines
UNDEREMPLOYMENT
BT Unemployment
UNEMPLOYMENT
BT Employment
BT Social problems
NT Underemployment
RT Labor market
UPFLOW FILTER PROCESS
URANIUM
RT Nuclear fuels
URBAN AREAS
RT Cities
RT Suburbs
RT Towns
RT Urban populations
URBAN COMMUNITIES
BT Communities
RT Cities
RT Suburbs
RT Towns
URBAN ECOSYSTEMS
BT Ecosystems
URBAN POOR
BT Poor
URBAN POPULATIONS
BT Population
RT Urban areas
Urban Wastes
USE MUNICIPAL WASTES
URBANIZATION
URINE
BT Animal wastes
BT Human wastes
RT Dung
RT Human excrement
Use
USE UTILIZATION
Use (Energy)
USE ENERGY CONSUMPTION
Use (Land)
USE LAND USE
Useful Life
USE SERVICE LIFE
USERS
RT Design
Rt Technology utilization
UTILIZATION
UF Use
Utilization (Land)
USE LAND USE
Utilization (Technology)
USE TECHNOLOGY UTILIZATION
Utilization (Waste)
USE WASTE UTILIZATION
Value (Calorific)
USE CALORIFIC VALUE
Value (Heat)
USE HEAT VALUE
VALUE INDICATORS
UF Indicators (value)
VALUES
Values (Measured)
USE DATA
VARIATIONS
NT Diurnal variations
NT Intermittency
NT Periodicity

NT Seasonal variations
VEGETABLE OILS
BT Oils
RT Coconut oils
VEGETABLE PROTEINS
BT Proteins
VEGETABLES
(Edible parts of plants only.)
BT Food
BT Plants
RT Crops
RT Legumes
Vegetation
USE PLANTS
VEHICLES
NT Animal carts
NT Automobiles
NT Bicycles
NT Buses
NT Mopeds
NT Motorcycles
NT Motorized rickshaws
NT Trains
NT Trucks
RT Boats
RT Land transport
RT Railways
VENTILATION
RT Architetural codes
RT Windows
Village Electrification
USE RURAL ELECTRIFICATION
VILLAGES
RT Rural communities
VIOLENCE
RT Conflicts
VOCATIONAL TRAINING
BT Training
NT Agricultural training
RT Occupations
VOLUNTARY ORGANIZATIONS
UF Organizations (Voluntary)
VOLUNTARY SERVICES
UF Services (Voluntary)
WASTE DISPOSAL
UF Discharges (Wastes)
UF Disposal (Wastes)
BT Waste management
RT Liquid wastes
RT Radioactive wastes
RT Soil conservation
RT Solid wastes
RT Waste processing
RT Wastes
WASTE HEAT
BT Energy
BT Energy sources
BT Heat
BT Wastes
RT Air pollution
RT Heat sinks
RT Water pollution
WASTE MANAGEMENT
UF Handling (Wastes)
BT Management
NT Aerobic digestion
NT Anaerobic digestion
NT Composting
NT Waste disposal
NT Waste processing
NT Waste utilization
WASTE PROCESSING
UF Processing (Wastes)
UF Waste treatment
BT Waste management
NT Aerobic digestion
NT Anaerobic digestion
NT Biogasification
NT Composting
RT Liquid wastes
RT Waste disposal
Waste Solutions
USE LIQUID WASTES
Waste Treatment
USE WASTE PROCESSING
WASTE UTILIZATION
BT Waste management
RT Recycling
WASTE WATER
BT Liquid wastes
BT Water
RT Water pollution
WASTES
UF Residues
NT Agricultural wastes
NT Domestic wastes
NT Human wastes
NT Industrial wastes
NT Liquid wastes
NT Municipal wastes
NT Organic wastes
NT Radioactive wastes
NT Sewage
NT Solid wastes
NT Waste heat
NT Wood wastes
RT Fertilizers
RT Sludges

RT Waste disposal
WATER
NT Drinking water
NT Fresh water
NT Ground water
NT Seawater
NT Waste water
RT Cooling
RT Ice
RT Steam
RT Water requirements
RT Water resources
RT Water supply
RT Wells
WATER BUFFALOES
BT LIVESTOCK
WATER ENERGY/POWER
UF Hydropower
RT Waterwheels
WATER GAS
BT Fuel gas
WATER HEATERS
NT Solar water heaters
RT Water heating
WATER HEATING
NT Solar water heating
RT Water heaters
WATER POLLUTION
UF Thermal pollution (Water)
BT Pollution
RT Environmental effects
RT Sanitation
RT Sewage
RT Waste heat
RT Waste water
RT Water quality
WATER PRESSURE DIGESTERS
BT Anaerobic digesters
WATER QUALITY
RT Water pollution
RT Water treatment
WATER REQUIREMENTS
BT Basic needs
BT Requirements
RT Water
RT Water resources
WATER RESERVOIRS
UF Reservoirs (Water)
RT Aquaculture ponds
RT Dams
RT Energy storage
RT Fresh water
RT Storage
RT Tanks
RT Water reservoirs
RT Water resources
RT Water supply
WATER RESOURCES
RT Ground water
RT Natural resources
RT Water
RT Water requirements
RT Water reservoirs
WATER SUPPLY
BT Supply
RT Water
RT Water reservoirs
RT Watershed management
RT Watersheds
RT Wells
WATER TREATMENT
RT Sewage
RT Water quality
WATER TURBINES
BT Turbines
RT Waterwheels
WATERSHED MANAGEMENT
BT Resource management
RT Agricultural development
RT Deforestation
RT Soil conservation
RT Water supply
RT Watersheds
WATERSHEDS
RT Rivers
RT Water supply
Rt Watershed management
WATERWHEELS
RT Water energy/power
RT Water turbines
Wave Energy/Power
USE OCEAN MOTION ENERGY/POWER
WEATHER
RT Climates
RT Floods
RT Forecasting
RT Rainfall
RT Seasons
RT Wind
WEATHERING
RT Corrosion
RT Decomposition
WEEDS
BT Plants
RT Grass
WELLS
NT Tubewells
RT Water

RT Water supply
WHEAT
BT Grains
WIND
RT Climates
RT Weather
WIND ENERGY/POWER
BT Energy
BT Power
BT Renewable energy sources
RT Electric energy/power
RT Wind turbines
RT Windmills
Wind Generators
USE WIND TURBINES
WIND POWER PLANTS
BT ELectric power plants
DEF Wind turbines supplying electric power to a grid.
WIND TURBINES
UF Generators (Wind)
UF Micro-wind generators
UF Wind generators
RT Turbines
RT Wind energy/power
WINDOWS
RT Architectural codes
RT Ventilation
WINDMILLS
RT Wind energy/power
WOMEN
BT Females
BT Humans
WOOD
BT Forest products
NT Firewood
NT Fuelwood
NT Lumber
RT Forests
RT Fuels
RT Harvesting
RT Trees
RT Wood products
RT Wood wastes
Wood Alcohol
USE METHANOL
WOOD BURNING FURNACES
RT Space heating
Wood Fuel
USE FUELWOOD
Wood Gas
USE PRODUCER GAS
WOOD GASIFICATION
BT Gasification
WOOD PRODUCTS
BT Forest products
NT Paper
RT Wood
WOOD PULP
RT Papermaking
WOOD WASTES
UF Woody residues
BT Wastes
RT Wood
Woody Residues
USE WOOD WASTES
WORK
(In the sense of labor, use EMPLOYMENT.)
WORKBOOKS
BT Document types
WORKERS
UF Personnel
RT Occupations
RT Organizing
RT Safety
WORKING CONDITIONS
UF Conditions (Working)
UF Occupational hazards
RT Safety
YEARBOOKS
BT Document types
YEASTS
BT Fungi
Yield (Biological)
USE BIOLOGICAL PRODUCTIVITY

APPENDIX--Geographic Descriptors

AFGHANISTAN
AFRICA
ALBANIA
ALGERIA
AMERICA
AMERICAN SAMOA
ANDORRA
ANGOLA
ARGENTINA
ASIA
AUSTRALIA
AUSTRIA
BAHAMAS
BAHRAIN
BANGLADESH
BARBADOS
BELGIUM
BELIZE
  UF British Honduras
BENIN
BERMUDA
BHUTAN
BOLIVIA
BOTSWANA
BRAZIL
BRITAIN
  USE UNITED KINGDOM
BRITISH HONDURAS
  USE BELIZE
BULGARIA
BURMA
BURUNDI
CAMBODIA
  USE KAMPUCHEA
CAMEROON
CANADA
CAPE VERDE
CENTRAL AFRICA
CENTRAL AFRICAN REPUBLIC
CENTRAL AMERICA
CEYLON
  USE SRI LANKA
CHAD
CHILE
CHINA
  UF People's Republic of China
COLOMBIA
COMMONWEALTH OF THE NORTHERN MARIANAS
  USE NORTHERN MARIANAS
COMOROS
CONGO
COOK ISLANDS
CORAL SEA ISLANDS TERRITORY
COSTA RICA
CUBA
CYPRUS
CZECHOSLOVAKIA
DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA
  USE NORTH KOREA
DENMARK
DJIBOUTI
DOMINICA
DOMINICAN REPUBLIC
EAST AFRICA
EAST GERMANY
  UF German Democratic Republic
EASTERN EUROPE
ECUADOR
EGYPT
EL SALVADOR
EQUATORIAL GUINEA
ETHIOPIA
EUROPE
FEDERAL REPUBLIC OF GERMANY
  USE WEST GERMANY
FEDERATED STATES OF MICRONESIA
  USE MICRONESIA
FIJI
FINLAND
FRANCE
FRENCH POLYNESIA
FUTUNA ISLAND
  USE WALLIS AND FUTUNA ISLANDS
GABON
GAMBIA
GERMAN DEMOCRATIC REPUBLIC
  USE EAST GERMANY
GHANA
GREECE
GRENADA
GRENADINES
  USE SAINT VINCENT AND THE GRENADINES
GUAM
GUATEMALA
GUINEA
GUINEA-BISSAU
GUYANA
HAITI
HONDURAS
HONG KONG
HUNGARY
ICELAND
INDIA
INDOCHINA
INDONESIA
IRAN
IRAQ
IRELAND
ISRAEL
ITALY
IVORY COAST
JAMAICA
JAPAN
JORDAN
KAMPUCHEA
  UF Cambodia
KENYA
KIRIBATI
KUWAIT
LAO PEOPLE'S DEMOCRATIC REPUBLIC
  USE LAOS
LAOS
  UF LAO People's Democratic Republic
LATIN AMERICA
LEBANON
LESOTHO
LIBERIA
LIBYA
  UF Libyan Arab Jamahiriya
LIBYAN ARAB JAMAHIRIYA
  USE LIBYA
LIECHTENSTEIN
LUXEMBOURG
MADAGASCAR
MALAWI
MALAYSIA
MALDIVES
MALI
MALTA
MARSHALL ISLANDS
MAURITANIA
MAURITIUS
MEXICO
MICRONESIA
  UF Federated States of Micronesia
MIDDLE EAST
  UF Near east

MONACO
MONGOLIA
  UF Mongolian People's Republic
MONGOLIAN PEOPLE'S REPUBLIC
  USE MONGOLIA
MOROCCO
MOZAMBIQUE
NAMIBIA
  UF South West Africa
NAURU
NEAR EAST
  USE MIDDLE EAST
NEPAL
NETHERLANDS
NETHERLANDS ANTILLES
NEW CALEDONIA
NEW HEBRIDES
NEW ZEALAND
NICARAGUA
NIGER
NIGERIA
NIUE
NORTH AFRICA
NORTH AMERICA
NORTH KOREA
  UF Democratic People's Republic of Korea
NORTHERN MARIANAS
  UF Commonwealth of the Northern Marianas
NORWAY
OCEANIA
OMAN
PACIFIC ISLANDS
PACIFIC REGION
PAKISTAN
PALAU (BELAU)
PANAMA
PAPUA NEW GUINEA
PARAGUAY
PEOPLE'S DEMOCRATIC REPUBLIC OF YEMEN
  USE SOUTH YEMEN
PEOPLE'S REPUBLIC OF CHINA
  USE CHINA
PERU
PHILIPPINES
POLAND
PORTUGAL
PRINCIPE
  USE SAO TOME AND PRINCIPE
PUERTO RICO
QATAR
REPUBLIC OF CHINA
  USE TAIWAN
REPUBLIC OF KOREA
  USE SOUTH KOREA
RHODESIA
  USE ZIMBABWE
ROMANIA
RWANDA
SAINT CHRISTOPHER-NEVIS
SAINT LUCIA
SAINT VINCENT AND THE GRENADINES
  UF Grenadines
SAO TOME AND PRINCIPE
  UF Principe
SAUDI ARABIA
SCOTLAND
  USE UNITED KINGDOM
SENEGAL
SEYCHELLES
SIERRA LEONE
SIKKIM
SINGAPORE
SOLOMON ISLANDS
SOMALIA
SOUTH AFRICA
SOUTH AMERICA
SOUTH ASIA
SOUTH EAST ASIA
SOUTH KOREA
  UF Republic of Korea
SOUTH WEST AFRICA
  USE NAMIBIA
SOUTH YEMEN
  UF People's Democratic Republic of Yemen
SPAIN
SRI LANKA
  UF Ceylon
SUDAN
SURINAM
SWAZILAND
SWEDEN
SWITZERLAND
SYRIA
TAIWAN
  UF Republic of China
TANZANIA
THAILAND
TOBAGO
  USE TRINIDAD AND TOBAGO
TOGO
TOKELAU
TONGA
TRINIDAD AND TOBAGO
  UF Tobago
TUNISIA
TURKEY
TUVALU
UGANDA
UNION OF SOVIET SOCIALIST REPUBLICS
  USE USSR
UNITED ARAB EMIRATES
UNITED KINGDOM
  UF Britain
  UF Scotland
  UF Wales
UNITED STATES OF AMERICA
  USE USA
UPPER VOLTA
URUGUAY
USA
  UF United States of America
USSR
  UF Union of the Soviet Socialist Republics
VENEZUELA
VIETNAM
WALES
  USE UNITED KINGDOM
WALLIS AND FUTUNA ISLANDS
  UF Futuna Island
WEST AFRICA
WEST GERMANY
  UF Federal Republic of Germany
WESTERN EUROPE
WESTERN SAMOA
YEMEN
  UF Yemen Arab Republic
YEMEN ARAB REPUBLIC
  USE YEMEN
YUGOSLAVIA
ZAIRE
ZAMBIA
ZIMBABWE
  UF Rhodesia

THE EAST-WEST CENTER is an educational institution established in Hawaii in 1960 by the United States Congress. The Center's mandate is "to promote better relations and understanding among the nations of Asia, the Pacific, and the United States through cooperative study, training, and research."

Each year more than 1,500 graduate students, scholars, professionals in business and government, and visiting specialists engage in research with the Center's international staff on major issues and problems facing the Asian and Pacific region. Since 1960, more than 30,000 men and women from the region have participated in the Center's cooperative programs.

The Center's research and educational activities are conducted in five institutes—Communication, Culture Learning, Environment and Policy, Population, and Resource Systems—and in its Pacific Islands Development Program, Open Grants, and Centerwide programs.

Although principal funding continues to come from the U.S. Congress, more than 20 Asian and Pacific governments, as well as private agencies and corporations, have provided contributions for program support. The East-West Center is a public, nonprofit corporation with an international board of governors.