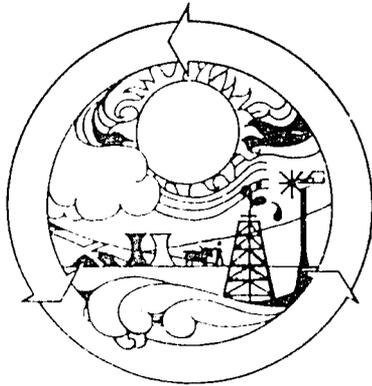




**Energy for Rural Development
Research Materials RM-80-1**

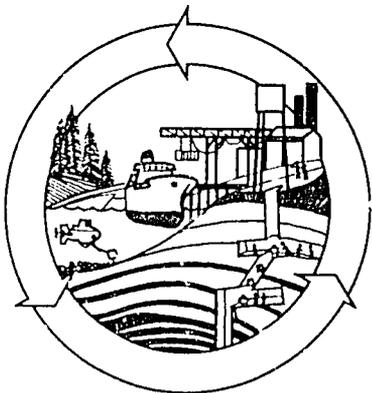


**THESAURUS FOR ENERGY
AND RURAL DEVELOPMENT**

Diane M. Pruett and Ted S. Toyoshiba, Jr.

**energy
systems**

September 1980



Energy for Rural Development
Research Materials RM-80-1.

THESAURUS FOR ENERGY AND RURAL DEVELOPMENT

Diane M. Pruett
Research Intern, Resource Systems Institute

Ted S. Toyoshiba, Jr.
Research Intern, Resource Systems Institute

With the assistance of
Richard Morse
Thammanun Pongsrikul
Jamuna Ramakrishna
Michael T. Santerre
Charles C. Schlegel
Kirk R. Smith

A reference document prepared as part of the
inter-country Energy for Rural Development
program, with support from the Agency for
International Development

September 1980

INTRODUCTION

PURPOSE

The Thesaurus for Energy and Rural Development provides a standardized vocabulary for indexing the documents in the Energy and Rural Development (ERD) collection at the East-West Resource Systems Institute.

Since no thesaurus for this multifaceted field exists, it is expected to contribute to wider and more effective exchange of information among research, policy, and implementation agencies. The Thesaurus is especially designed to serve as an organizing instrument for development and exchange of bibliographies, research documents, and technical information among participating institutions in the ERD Program and for creation of the Energy for Rural Development Information Network (ERDINET) service in that Program.

The ERD collection chiefly encompasses English language documents from the Asian and Pacific areas, especially from Bangladesh, India, Indonesia, Nepal, the Philippines, Sri Lanka, Thailand, and the United States. Subject coverage ranges from the technological to the sociological and economic aspects of energy, energy technologies, and rural development.

The collection consists mainly of journal articles and ephemeral materials such as research reports, government reports, drafts, surveys, and workshop and conference papers. As part of the ERD project an online data base has been created to provide bibliographic information, abstracts, and subject descriptors. The thesaurus was developed with the aim of using this data base to conduct online subject searches.

Two problems led to the creation of the ERD Thesaurus. First, there is no interdisciplinary thesaurus that covers the area 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, are not included in standard thesauri.

Two separate thesauri, each authoritative in its respective field, provided the framework for the ERD Thesaurus--the Energy Information Data Base: Subject Thesaurus (June 1978) developed by the United States Department of Energy; and the Macrothesaurus for Information in the Field of Economic and Social Development (1978) sponsored by the Organization for Economic Co-operation and Development (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 agriculture, energy, applied ecology, economics, and sociology and with people who have knowledge of energy problems and projects in Asia, additional terms were included. The ERD Thesaurus then became a separate entity in which there are 940 authorized terms and 280 terms that are not authorized.

SEMANTICS

In a few areas there is a plethora of terms with overlapping or ambiguous meanings that are difficult to class as synonyms or 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 indistinguishable. Often both author and reader say "SOLAR ENERGY" but mean "SOLAR POWER" or say "NUCLEAR POWER" but mean "NUCLEAR ENERGY." After wrestling with this dilemma for many months, 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 non-renewable. The first three types of energy sources are ambiguous in that their definitions are place specific. 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 "NON-RENEWABLE 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.

<u>Type</u>	<u>Technology</u> <u>Scale of Facility</u>	<u>Ambiguous</u>
Modern	Centralized	Appropriate
Intermediate	Community	Alternative
Traditional	Decentralized	Hard
	Large Scale	Soft
	Small Scale	Renewable
		Non-renewable
		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 engineering and scientific 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.

Centralized 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.

Decentralized Technology

A technology that is characterized by having a relatively large number of production sites, often of relatively small size, with consumption of the goods or service 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.

(Assigning any one of the above descriptors to a technology does not imply a value judgment; in different situations each of them can be appropriate or inappropriate descriptors.)

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 the forms of country names as they are to be used in the ERD collection.

The cross-reference structure is an important aspect of the thesaurus. It specifies relationships among the terms that may be hierarchical, non-hierarchical, or substitutions. The following sample from the thesaurus 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 users from a term that is not authorized to one that is authorized,

i.e., 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,

i.e., PRODUCTIVITY (AGRICULTURAL) USE AGRICULTURAL PRODUCTIVITY.

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

i.e., BIOMASS FUELS UF BIOFUELS.

BT: The BROADER TERM reference indicates a hierarchical relationship. It informs the user of the existence of a more general term in the same subject class,

i.e., 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,

i.e., BIOMASS FUELS NT Fuelwood.

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

i.e. BIOMASS FUELS RT Bioconversion.

Generally, RT references are used wherever it is believed that the user might want to be reminded of the existence 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 an 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 reference structure. 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 reference-structure.

The Energy and Rural Development Thesaurus is a dynamic structure, not without compromises. Like all thesauri it will need continuous revision. Your comments, criticisms, and suggestions are welcome and necessary for a viable thesaurus. Send all comments to:

ERD COLLECTION
Energy and Rural Development Project
East-West Center Resource Systems Institute
1777 East-West Road
Honolulu, Hawaii
U.S.A. 96848

THESAURUS FOR ENERGY AND RURAL DEVELOPMENT

ABSTRACTS
 BT Document types
 ACCOUNTING
 NT Energy accounting
 RT Losses
 ADMINISTRATION
 USE MANAGEMENT
 ADULT EDUCATION
 BT Education
 AEROBIC DIGESTION
 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
 AGRICULTURAL ECOSYSTEMS
 BT ECOSYSTEMS
 AGRICULTURAL ENERGY CONSUMPTION
 BT Energy consumption
 RT Agriculture
 AGRICULTURAL ENGINEERING
 UF AGRICULTURAL TECHNOLOGY
 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
 RT Agricultural extension
 RT Agricultural training
 AGRICULTURAL MACHINERY
 UF Farm machinery
 BT Agricultural equipment
 BT Machinery
 NT Tractors
 RT Agricultural mechanization
 RT Farms
 AGRICULTURAL MARKET
 BT Market
 AGRICULTURAL MECHANIZATION
 BT Mechanization
 RT Agricultural machinery
 AGRICULTURAL PLANNING
 BT Planning
 NT Forestry planning
 AGRICULTURAL POLICY
 BT Government policy
 RT Economic policy
 AGRICULTURAL PRACTICES
 BT Farming systems
 NT Cultivation practices
 AGRICULTURAL PRODUCTION
 RT Food production
 AGRICULTURAL PRODUCTIVITY
 UF Productivity (Agricultural)
 AGRICULTURAL PROJECTS
 BT Development projects
 RT Rural development
 AGRICULTURAL REQUIREMENTS
 UF Agricultural inputs
 BT Requirements
 AGRICULTURAL RESEARCH
 BT Research
 AGRICULTURAL RESIDUES
 USE AGRICULTURAL WASTES
 AGRICULTURAL SECTOR
 UF Sector (Agricultural)
 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
 AIR POLLUTION
 UF Thermal pollution (Air)
 BT Pollution
 RT Environmental effects
 RT Waste heat
 ALCOGAS
 USE GASOHOL
 ALCOHOL
 NT Ethanol
 NT Methanol
 RT Alcohol fermentation
 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
 RT Anaerobic digestion
 RT Biogas
 RT Gas holders
 ANAEROBIC DIGESTION
 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
 NT Alcohol fermentation
 NT Methane fermentation
 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
- 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
- AREA STUDY
 - 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
- 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
- AZOLLA
- BACK-UP ENERGY SYSTEMS
 - RT Intermittency
- BACTERIA
 - RT Fermentation
 - RT Microbial processes
 - RT Nitrogen fixation
- 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

- RT Economics
 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
 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 ELECTRICAL BATTERIES
 BEANS
 BT Legumes
 BEEF
 USE CATTLE
 OR MEAT
 BEHAVIOR
 RT Motivations
 BEHAVIORIAL ASPECTS
 UF Aspects (Behaviorial)
 BENEFIT-COST ANALYSIS
 USE COST-BENEFIT ANALYSIS
 BENEFITS
 RT Cost-benefit analysis
 RT Costs
 BIBLIOGRAPHIC DATA BASES
 BT Data bases
 BIBLIOGRAPHIES
 BT Document types
 BICYCLES
 BT Vehicles
 BIO-GAS
 USE BIOGAS
 BIOCONVERSION
 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 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
 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
 NT 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 licker
 DEF All biological materials

- 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
 - RT 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 Vehicles
- BRICKS
 - BT Construction materials
- BRIDGES
 - BT Transport infrastructure
- BRIQUETS
 - BT Solid fuels
 - RT Charcoal
 - RT Coal
- BUILDING (CONSTRUCTING)
 - USE CONSTRUCTION
- BUILDING (FABRICATION)
 - USE FABRICATION
- BUILDING (MANUFACTURING)
 - USE MANUFACTURING
- BUILDING MATERIALS
 - USE CONSTRUCTION MATERIALS
- BULLOCKS
 - BT Cattle
 - RT Animal energy/power
- BUNKER OILS
 - USE RESIDUAL FUELS
- BUSES
 - BT Vehicles
- BUTANE
 - BT Liquefied petroleum gases
- CALORIFIC VALUE
 - 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

- BT Document types
- CASSAVA
- UF Manihot
 - UF Manioc
 - BT Root crops
 - RT Energy crops
 - RT Methanol
- CATTLE
- UF Beef
 - BT Livestock
 - NT Bullocks
 - RT Forage
 - RT Meat
- CATALOGS
- BT Document types
- CELLULOSE
- BT Carbohydrates
- CEMENTS
- BT Construction materials
 - BT Reinforced concrete
 - RT Concretes
- CENTRAL GOVERNMENT
- USE NATIONAL GOVERNMENT
- CENTRALIZED TECHNOLOGY
- BT Technology
 - RT Decentralized technology
- CERAMICS
- RT Clays
- CEREALS
- USE GRAINS
- CHARCOAL
- BT Biomass fuels
 - RT Briquets
 - RT Cooking fuels
 - RT Firewood
- CHEMICAL COMPOSITION
- CHEMICAL EFFLUENTS
- UF Effluents (Chemical)
 - RT Liquid wastes
 - RT Pollution
 - RT Solid wastes
- CHEMICAL FEEDSTOCKS
- BT Feedstocks
- 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
- CLIMATIC CHANGES
- NT Drought
 - RT Climates
- CLIMATES
- RT Climatic changes
 - RT Degree days
 - RT Floods
 - RT Monsoons
 - RT Seasons
 - RT Weather
 - RT Wind
- 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
- RT Coal
 - RT Synthetic fuels
- COASTAL REGIONS
- COFFEE
- COGENERATION
- RT Total energy systems
- COMBUSTION
- NT Fluidized-bed combustion
 - RT Calorific value
 - RT Spark ignition engines
- COMMERCIAL FUELS
- (Includes fuels produced and sold on a large-scale basis such as coal, electricity, natural gas, and petroleum.)
- UF Conventional fuels
 - 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
 COMMUNITIES
 NT Rural communities
 NT Urban communities
 COMMUNITIES (ECOLOGICAL)
 USE ECOSYSTEMS
 COMMUNITY SCALE SYSTEMS
 RT Family scale systems
 COMPETITION
 RT Economics
 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
 NT Parabolic collectors
 RT Solar concentrators
 CONCRETES
 BT Construction materials
 NT Reinforced concrete
 RT Cements
 RT Sand
 CONSERVATION
 NT Agricultural conservation
 NT Energy conservation
 NT Resource conservation
 NT Soil conservation
 RT Environmental policy
 CONSTRUCTION
 UF Building (Constructing)
 RT Fabrication
 RT Installation
 RT Manufacturing
 RT Production
 CONSTRUCTION MATERIALS
 UF Building materials
 UF Structural materials
 NT Bricks
 NT Cements
 NT Clays
 NT Concretes
 NT Lumber
 NT Reinforced concrete
 NT Steel
 NT Wood
 RT Metals
 RT Sand
 CONSUMPTION
 NT Energy consumption
 RT Consumption rates
 CONSUMPTION RATES
 RT Consumption
 CONTINUOUS DIGESTERS
 BT Anaerobic digesters
 CONVENTIONAL FUELS
 USE COMMERCIAL FUELS
 COOKING
 RT Food
 RT Food preparation
 COOKING FUELS
 BT Fuels
 RT Agricultural wastes
 RT Biogas
 RT Charcoal
 RT Dung
 RT Fuelwood
 RT Kerosene
 RT Liquefied petroleum gases
 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
 CORN
 USE MAIZE
 CORROSION
 RT Weathering
 COST-BENEFIT ANALYSIS
 UF Benefit-cost analysis
 BT Economic analysis
 RT Benefits
 RT Costs
 RT Technology assessment
 COSTS

- NT Food costs
 NT Fuel costs
 NT Production costs
 RT Benefits
 RT Capital
 RT Cost-benefit analysis
 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
 BT Food preservation
 CROP WASTES
 UF Plant wastes
 BT Agricultural wastes
 BT Biomass
 NT Bagasse
 NT Rice husks
 NT Rice straw
 RT Fertilizers
 RT Manures
 CROP YIELDS
 RT Crops
 RT Harvesting
 CROPS
 NT Energy crops
 NT Feed crops
 NT Fertilizer crops
 NT Fiber crops
 NT Food crops
 RT Agriculture
 RT Biomass energy farms
 RT Crop yields
 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
 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
 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
- DEGREE DAYS
 - RT Climates
 - RT Space heating
- DELPHI METHOD
 - BT Forecasting
 - RT Flanning
 - RT Technology assessment
- DEMAND
 - BT Supply and demand
- DEMOGRAPHIC ANALYSIS
 - RT Demography
- DEMOGRAPHY
 - RT Demographic analysis
- DEMONSTRATION PLANTS
 - 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
 - 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
- DENUATION
 - NT Deforestation
 - NT Erosion
- DEPARTMENTS
 - USE GOVERNMENT BODIES
- 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 Planning
- DEVELOPED COUNTRIES
 - USE INDUSTRIALIZED COUNTRIES
- DEVELOPING COUNTRIES
 - UF LDCs
 - UF Less developed countries
 - UF Third World
 - RT Industrialized countries
- DEVELOPMENT
 - NT Agricultural developoment
 - NT Economic development
 - NT Industrial development
 - NT Rural development
- DEVELOPMENT AID
 - BT International cooperation
 - NT Health aid
- DEVELOPMENT BANKS
 - RT Economic development
- DEVELOPMENT CENTERS
- DEVELOPMENT EDUCATION
 - BT Education
- DEVELOPMENT PLANNING
 - BT Planning
 - NT Area-level planning
- DEVELOPMENT POLICY
 - BT Government policy
 - NT Rural development policy
 - RT Basic needs
 - RT Development strategy
- DEVELOPMENT POTENTIAL
 - RT Economic infrastructure
- DEVELOPMENT PROJECTS
 - NT Agricultural projects
 - NT Electrification projects
 - NT Rural development projects
 - RT Pilot projects
 - RT Project proposals
 - RT Project reports

- DEVELOPMENT REPORTS
 BT Reports
 RT Project reports
- DEVELOPMENT RESEARCH
 BT Research
- DEVELOPMENT STRATEGY
 RT Development policy
- 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 OIL (FRACTION)
 USE DIESEL FUELS
- DIET
 RT Food
 RT Nutrition
- DIRECTORIES
 BT Document types
- DISCHARGES (WASTES)
 USE WASTE DISPOSAL
- DISEASES
 RT Health
 RT Sanitation
 RT Social problems
- DISPOSAL (WASTES)
 USE WASTE DISPOSAL
- DISTILLATION
 NT Solar distillation
 RT Desalination
 RT Petroleum
- DISTRIBUTION
 RT Marketing
- DISTRICT GOVERNMENT
 USE STATE GOVERNMENT
- DIURNAL VARIATIONS
 UF Daily variations
 BT Variations
 BT Reriodicity
- DOCUMENT RETRIEVAL
 USE INFORMATION RETRIEVAL
- DOCUMENT TYPES
 NT Abstracts
 NT Atlases
 NT Bibliographies
 NT Case studies
 NT Catalogs
 NT Dictionaries
 NT Directories
- NT Journals
 NT Manuals
 NT Newsletters
 NT Proceedings
 NT Reports
 NT Reviews
 NT Thesauri
- 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 ANALYSIS
- NT Cost-benefit analysis
- NT Input-output analysis
- RT Econometrics
- RT Energy analysis
- ECONOMIC ASPECTS
- UF Aspects (Economic)
- ECONOMIC CONDITIONS
- 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
- ECONOMIC FORECASTS
- BT Forecasts
- ECONOMIC GROWTH
- UF Growth (Economic)
- RT Economic development
- RT Economic policy
- RT Economics
- ECONOMIC IMPACT
- RT Socio-economic factors
- ECONOMIC INDICATORS
- 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 Economic development
- RT Economic growth
- RT Economic indicators
- RT Economic planning
- RT Economics
- RT Energy policy
- ECONOMIC PRODUCTIVITY
- USE PRODUCTIVITY
- ECONOMIC RESEARCH
- BT Research
- ECONOMIC RESOURCES
- 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 Low income groups
- RT Marketing
- 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 efficiency
- 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 GENERATORS
 UF Generators (Electric)
- 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 POWER DEMAND
 RT Electric energy/power
 RT Energy demand
- ELECTRIC POWER DISTRIBUTION
 RT Electric energy/power
 RT Electric power transmission
 RT Energy transport
- ELECTRIC POWER GENERATION
 RT Electric energy/power
- ELECTRIC POWER PLANTS
 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 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 POWER.)
 RT Electric energy/power
- ELECTRIFICATION PROJECTS
 BT Development projects
- 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
 - 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 methodology 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
 - 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 supplies
 - RT Electric power demand
- ENERGY DISSIPATION
 - USE ENERGY LOSSES
- ENERGY DISTRIBUTION
- ENERGY EFFICIENCY
 - BT Efficiency
 - RT Energy conservation
 - RT Energy consumption
 - RT Energy demand
 - 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 LOSSES
 UF Energy dissipation
 UF Losses (Energy)
 NT Heat losses
 RT Energy efficiency
 ENERGY MANAGEMENT
 RT Energy accounting
 RT Energy conservation
 RT Energy supplies
 RT Fuel substitution
 ENERGY MODELS
 BT Models
 RT Energy analysis
 ENERGY NEEDS
 RT Energy requirements
 ENERGY PLANNING
 BT Planning
 ENERGY PLANTATIONS
 USE BIOMASS ENERGY FARMS
 ENERGY POLICY
 UF Energy strategies
 BT Government policy
 RT Economic policy
 RT Regional cooperation
 RT Rural development policy
 ENERGY PRODUCTION
 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
 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 supplies
 RT Fuel substitution
 ENERGY SOURCES
 NT Agricultural wastes
 NT Fossil fuels
 NT Fuel gas
 NT Non-renewable energy sources
 NT Nuclear fuels
 NT Renewable energy sources
 NT Waste heat
 RT Energy
 RT Energy shortages
 RT Energy supplies
 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 SUPPLIES
 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
- ENGINES
 - NT Diesel engines
 - NT Dual-fuel engines
 - NT Heat engines
 - NT Spark ignition 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.)
 - 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 Tools
- EROSION
 - UF Soil loss
 - RT Deforestation
 - RT Denudation
 - RT Desertification
 - RT Soils
- ETHANOL
 - UF Ethyl alcohol
 - UF Grain alcohol
 - BT Alcohol
 - BT Biomass fuels
 - RT Gasohol
 - RT Gasohol program
- ETHYL ALCOHOL
 - USE ETHANOL
- EXCHANGE (HEAT)
 - USE HEAT TRANSFER
- EXPERIMENTAL PLANTS
 - USE PILOT PLANTS
- EXTENSION SERVICES
 - NT Agricultural extension
 - RT Demonstration programs
- FABRICATION
 - UF Building (Fabrication)
 - RT Construction
 - RT Manufacturing
 - RT Production
- FAMILY PLANNING
 - NT Birth control

FAMILY SCALE SYSTEMS
 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
 NT Agricultural practices
 FARMS
 RT Agricultural machinery
 RT Agriculture
 RT Biomass energy farms
 RT Farm size
 FARMYARD MANURES
 BT Manures
 RT Dung
 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 Perceived needs
 RT Basic needs
 FEMALES

NT Women
 FERMENTATION
 BT Bioconversion
 BT Decomposition
 NT Aerobic 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
 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
 - NT Seafood
- FISHERIES
 - RT Aquaculture
- 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
 - 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 Cooking
 - RT Diet
 - RT Drinking water
- RT Fishes
 - RT Food crops
 - 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
 - RT Food supply systems
- FOOD INDUSTRY
 - BT Industry
 - NT Meat industry
- FOOD PREPARATION
 - RT Cooking
 - RT Ovens
 - RT Stoves
- FOOD PRESERVATION
 - UF Preservation
 - RT Crop drying
 - RT Food
 - RT Refrigeration
 - RT Sterilization
- FOOD PROCESSING
 - RT Food
- FOOD PRODUCTION
 - RT Agricultural production
- FOOD REQUIREMENTS
 - BT Basic needs
 - BT Requirements
 - RT Food
 - RT Nutrition
- FOOD STORAGE
 - BT Storage
- FOOD SUPPLIES
 - RT Food supply systems
- FOOD SUPPLY SYSTEMS
 - RT Food delivery systems
 - RT Food supplies
- 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
- FOREIGN POLICY
 - BT Government policy
 - RT International agreements
- FOREST ECOSYSTEMS
 - BT Ecosystems
- FOREST LITTER
 - RT Biomass
 - RT Firewood
 - RT Forests
- FOREST MANAGEMENT
 - USE FORESTRY
- FOREST PRODUCTS
 - BT Plant products
 - NT Wood
- FOREST RESOURCES
 - BT Trees
 - RT Forests
 - RT Fuelwood
- FORESTRY
 - UF Forest management
 - NT Energy forestry
 - NT Silviculture
 - RT Afforestation
 - RT Forestry statistics
 - RT Forests
 - RT Reforestation
- FORESTRY PLANNING
 - BT 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
 - RT Fruit trees
- FRUITS
 - BT Food
 - BT Plant products
 - RT Fruit trees
- 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 SUBSTITUTION
 - RT Energy conservation
 - RT Energy management
 - RT Energy shortages
 - RT Energy supplies
 - RT Non-renewable fuels
- FUELS
 - NT Automotive fuels
 - NT Biomass fuels
 - NT Commercial fuels
 - NT Cooking fuels
 - NT Fossil fuels
 - NT Fuel oils
 - NT Gas fuels
 - NT Gasoline
 - NT Kerosene
 - NT Liquid fuels
 - NT Non-renewable fuels
 - NT Nuclear fuels
 - NT Refuse derived fuels
 - NT Residual fuels
 - NT Solid fuels
 - NT Synthetic fuels
 - NT Calorific value
 - RT Energy crops
 - RT Fuel economy
 - RT Wood
- 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
- FUNGI
 - BT Plants
 - NT Yeasts
- GAS COLLECTORS
 - USE GAS HOLDERS
- GAS FUELS
 - BT Fuels
 - NT Fuel gas
- GAS HOLDERS
 - 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
- 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
 - RT Gasohol
- GASOLINE
 - UF Motor spirits
 - BT Fuels
 - RT Automotive fuels
 - RT Gasohol
 - RT Refinery mix
 - RT Spark ignition engines
- GDP
 - USE GROSS DOMESTIC PRODUCT
- GENERATORS (ELECTRIC)
 - USE ELECTRIC GENERATORS
- GENERATORS (STEAM)
 - USE STEAM GENERATORS
- GEOGRAPHY
 - RT Regional analysis
- GEOHERMAL 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
 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 GRINDING
 USE MILLING
 GRAINS
 UF Cereals
 BT Food crops
 BT Plant products
 NT Maize
 NT Millet
 NT Rice
 NT Sorghum
 NT Wheat
 RT Crops
 GRASS
 BT Plants
 RT Forage
 RT Weeds
 GREEN MANURES
 BT Plant products
 RT Manures
 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 (ECONOMICS)
 USE ECONOMIC 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
 RT Crop yields
 RT Crops
 RT Fishes
 RT Wood
 HAZARDS
 NT Health hazards
 RT Risks
 RT Safety
 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
 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 Stirling engines
 RT Carnot cycle
 RT Energy conversion
 RT Heat pumps
 RT Solar-assisted power systems
 HEAT EXCHANGERS
 UF Coolers
 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 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.)
 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
 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
 HUMAN EXCREMENT
 UF Feces (Human)
 UF Night soil
 BT Human wastes
 BT Wastes
 RT Dung
 RT Urine
 HUMAN POPULATION
 USE POPULATION
 HUMAN RESOURCES
 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 gases
 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
 HYV
 USE HIGH YIELDING VARIETIES
 ICE
 RT Water
 ILLUMINATION SYSTEMS
 USE LIGHTING SYSTEMS
 IMPLEMENTATION
 RT Policy making
 INCOME
 RT Economics
 RT Income distribution
 RT Low income groups
 INCOME DISTRIBUTION
 RT Economics
 RT Income
 RT Low income groups
 RT Poverty
 INDIAN TYPE DIGESTERS
 USE FLOATING DOME DIGESTERS
 INDUSTRIAL DEVELOPMENT
 UF Industrialization
 BT Development
 INDUSTRIAL ENERGY CONSUMPTION
 BT Energy consumption
 RT Process heat
 INDUSTRIAL 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 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
 RT Information systems
 INFORMATION CLEARINGHOUSES
 INFORMATION NEEDS
 BT Basic needs
 INFORMATION NETWORKS
 INFORMATION RETRIEVAL
 UF Document retrieval
 UF Records retrieval
 RT Documentation
 RT Information systems
 INFORMATION SERVICES
 RT Data bases
 INFORMATION SYSTEMS
 RT Documentation
 RT Information centers
 RT Information retrieval
 INFRASTRUCTURE
 INLAND WATERWAYS
 NT Canals
 NT Rivers
 RT Transport
 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.
 INSECTS
 BT Animals
 RT Pest control

- INSOLATION
RT Solar radiation
- INSTALLATION
RT Construction
- INSTITUTION BUILDING
USE INSTITUTIONAL DEVELOPMENT
- INSTITUTIONAL ASPECTS
UF Aspects (Institutional)
- INSTITUTIONAL DEVELOPMENT
UF Institution building
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
- 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
- INTERNATIONAL ORGANIZATIONS
NT Intergovernmental organizations
NT Non-governmental organizations
RT International cooperation
- IPIL-IPIL
USE LEUCAENA
- IRON
BT Metals
RT Steel
- IRRIGATION
RT Agriculture
RT Fresh water
RT Irrigation development
RT Irrigation systems
RT Pumping
RT Soil conservation
RT Soils
- IRRIGATION DEVELOPMENT
RT Irrigation
- IRRIGATION EQUIPMENT
BT Agricultural equipment
RT Pumps
- IRRIGATION SYSTEMS
RT Irrigation
- JANATA TYPE DIGESTERS
USE FIXED DOME DIGESTERS
- JOURNALS
BT Document types
- JOWAR
USE MILLET
- KEROSENE
BT Fuels
BT Middle distillates
RT Cooking fuels
- KOA HAOLE
USE LEUCAENA
- KVIC TYPE DIGESTERS
USE FLOATING DOME DIGESTERS
- LABOR
RT Employment
RT Labor market
RT Manpower
RT Occupations
- LABOR FORCE
USE MANPOWER
- LABOR MARKET
BT Market
RT Employment
RT Labor
RT Unemployment
- LABOR PRODUCTIVITY
UF Productivity (Labor)
BT Productivity
- 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 Land distribution
 - RT Land ownership
 - RT Land reforms
- LAND TRANSPORT
 - UF Road transport
 - BT Transport
 - RT Railways
 - RT Vehicles
- LAND USE
 - UF Land utilization
 - RT Arid lands
 - RT Land reclamation
 - RT Land requirements
- LAND UTILIZATION
 - USE LAND USE
- LAWS
 - 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
- LEGUMES
 - UF Pulses
 - BT Plants
 - BT Food crops
 - NT Beans
 - NT Lentils
 - NT Soybeans
 - RT Vegetables
- LENTILS
 - BT Legumes
- LESS DEVELOPED COUNTRIES
 - USE DEVELOPING COUNTRIES
- LEUCAENA
 - UF Ipil-ipil
 - UF Koa haole
- LIFE (SERVICE)
 - USE SERVICE LIFE
- LIFE EXPECTANCY
 - USE SERVICE LIFE
- LIGHTING
 - RT Lighting systems
- LIGHTING SYSTEMS
 - UF Illumination systems
- LIGNITE
 - BT Coal
- LINEAR PROGRAMMING
 - (A technique used to determine optimal solutions to problems, particularly those concerning the allocation of resources.)
- LIQUEFIED NATURAL GAS
 - UF LNG
 - BT Natural gas
 - RT Liquid fuels
- LIQUEFIED PETROLEUM GASES
 - UF LPG
 - BT Hydrocarbons
 - BT Petroleum
 - NT Butane
 - NT Propane
 - RT Cooking 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
 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
 LOW INCOME GROUPS
 UF Poor people
 RT Economics
 RT Income
 RT Income distribution
 RT Poverty
 RT Socio-economic factors
 LPG
 USE LIQUEFIED PETROLEUM GASES
 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
 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 Surveys
 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
- MARKET
 - NT Agricultural market
 - NT Commodity market
 - NT Domestic market
 - NT International market
 - NT Labor 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
 - NT 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 SMALL-SCALE HYDROELECTRIC ENERGY/POWER
- 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
 - BT Food
- MILLET
 - UF Bajra
 - UF Jowar
 - UF Ragi
 - BT Grains
- MILLING
 - UF Grain grinding
- MINERAL OIL
 - USE LUBRICANTS
- MINERAL RESOURCES
 - RT Minerals
 - RT Natural resources
- MINERALS

- RT Mineral resources
- MINI-HYDRO POWER
- USE SMALL-SCALE HYDROELECTRIC ENERGY/POWER
- MINISTRIES
- USE GOVERNMENT BODIES
- 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
- NT Energy resources
- NT Marine resources
- NT Mineral resources
- NT Reserves
- NT Water resources
- RT Economic resources
- RT Human resources
- RT Resource conservation
- 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
- 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
- NON-CHEMICAL PEST CONTROLS

- BT Pest controls
- NON-GOVERNMENTAL ORGANIZATIONS
 - UF National organizations
 - UF NGO
 - BT International organizations
- NON-RENEWABLE ENERGY SOURCES
 - BT Energy sources
 - NT Non-renewable fuels
 - RT Renewable energy sources
- NON-RENEWABLE FUELS
 - BT Fuels
 - BT Non-renewable 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
 - NT 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 Nutrients
 - RT Malnutrition
 - RT Proteins
- NUTRITIONAL DEFICIENCY
 - USE MALNUTRITION
- OCCUPATIONAL HAZARDS
 - USE WORKING CONDITIONS
- OCCUPATIONS
 - UF Professions
 - RT Employment
 - RT Labor
 - RT Manpower
 - RT Personnel
 - RT Vocational training
- 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
- OIL PALMS
- OIL SHALES
 - BT Fossil fuels
- OILS
 - NT Fuel oils
 - NT Residual fuels
 - RT Hydrocarbons
- OMEC
 - USE OCEAN MOTION ENERGY CONVERSION
- OPERATION
 - RT Maintenance
- ORE RESERVES
 - USE RESERVES
- ORGANIC WASTES
 - BT Wastes
- ORGANIZATIONAL DEVELOPMENT
 - RT Institutional development
- ORGANIZING
 - RT Personnel
 - RT Planning
- OTEC
 - USE OCEAN THERMAL ENERGY CONVERSION
- OVENS
 - BT Appliances
 - RT Food preparation
 - RT Stoves

- OXEN
 BT Livestock
- OXYGEN
 BT Gases
- PAPERMAKING
 RT Wood pulp
- PARABOLIC COLLECTORS
 UF Parabolic reflectors
 BT Concentrating collectors
- PARABOLIC REFLECTORS
 USE PARABOLIC COLLECTORS
- PERCEIVED NEEDS
 USE FELT NEEDS
- PERFORMANCE
 RT Efficiency
 RT Productivity
 RT Reliability
- PERFORMANCE MODELING
- PERIODICITY
 BT Variations
 NT Diurnal variations
 NT Seasonal variations
- PERSONNEL
 UF Workers
 RT Occupations
 RT Organizing
 RT Safety
- 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 gases
 NT Middle distillates
 RT Distillation
 RT Hydrocarbons
 RT Refineries
- PETROLEUM EXPLORATION
- PHOSPHATES
 RT Fertilizers
- PHOTOCHEMICAL REACTIONS
 NT Photosynthesis
 RT Photochemistry
- PHOTOCHEMISTRY
 RT Photochemical reactions
- RT Photosynthesis
- PHOTOSYNTHESIS
 BT Photochemical reactions
 RT Photochemistry
 RT Plant growth
- PHOTOVOLTAIC CELLS
 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
 RT Demonstration plants
- PILOT PROJECTS
 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 Forestry planning
 NT Health planning
 NT Rural planning
 RT Decision making
 RT Delphi method
 RT Demonstration programs
 RT Design
 RT Organizing
 RT Production
 RT Regional cooperation
 RT Research programs
 RT Site selection
- PLANT FIBERS
 BT Plant products
 NT Cotton
 RT Fiber crops

- PLANT GROWTH
 - RT Biological productivity
 - RT Hydroponic culture
 - RT Nitrogen fixation
 - RT Photosynthesis
 - RT Plants
- PLANT PRODUCTS
 - NT Forest products
 - NT Fruits
 - NT Grains
 - NT Green manures
 - NT Plant fibers
 - RT Agriculture
 - RT Plants
- PLANT WASTES
 - USE CROP WASTES
- 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 growth
 - RT Plant products
 - RT Soils
- PLASTICS
- PLUG FLOW DIGESTERS
 - UF Tubular digesters
 - BT Anaerobic digesters
- POLICY
 - USE GOVERNMENT POLICY
- POLICY MAKING
 - RT Decision making
 - RT Government policy
 - RT Implementation
- POLITICAL ASPECTS
 - UF Aspects (Political)
- POLLUTION
 - NT Air pollution
 - NT Land 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 PEOPLE
 - USE LOW INCOME GROUPS
- 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
 - RT Population
- POPULATION DYNAMICS
 - 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
- 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 Low income groups
 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
 PRAD TYPE DIGESTERS
 USE FIXED DOME DIGESTERS
 PRAWNS
 UF Shrimp
 PREDICTION
 USE FORECASTING
 PRESERVATION
 USE FOOD PRESERVATION
 PRICES
 RT Costs
 RT Economics
 RT Market
 PROCEEDINGS
 BT Document types
 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
 RT Capacity
 RT Construction
 RT Fabrication
 RT Gross domestic product
 RT Gross national product
 RT Manufacturing
 RT Planning
 RT Productivity
 PRODUCTION COSTS
 BT Costs
 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
 PROFESSIONS
 USE OCCUPATIONS
 PROJCT PROPOSALS
 RT Development projects
 PROJECT REPORTS
 BT Reports
 RT Development reports
 PROPANE
 BT Liquefied petroleum gases
 PROPERTIES
 PROTECTION
 USE SAFETY
 PROTEIN PRODUCTION
 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
 - 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
 - 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 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
 - 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
 - REFINERIES
 - RT Petroleum
 - RT Refinery mix
 - REFINERY MIX
 - RT Gasoline
 - RT Liquefied petroleum gases
 - 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 Area study
 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
 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 Non-renewable energy sources
 REPORTS
 BT Document types
 NT Development reports
 NT Project 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 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 Research institutes
 RESEARCH INSTITUTES
 USE RESEARCH CENTERS
 RESEARCH METHODS
 NT Data collection
 NT Interdisciplinary research
 NT Simulation
 NT Statistical analysis
 RT Field research
 RT Measurement
 RT Methodology
 RT Research
 RESEARCH POLICY
 RT Research
 RESEARCH PROGRAMS
 (Use jointly with descriptor(s) for subject field and/or organization concerned.)

NT Research projects
 RT Demonstration programs
 RT Information needs
 RT Planning
 RT Recommendations
 RT Research
 RESEARCH PROJECTS
 RT Research
 BT Research programs
 RESEARCH 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
 RT Reserves
 RESOURCE CONSERVATION
 BT Conservation
 NT Soil conservation
 RT Energy conservation
 RT Recycling
 RT Natural resources
 RESOURCE DEPLETION
 RESOURCE MANAGEMENT
 BT Management

RESOURCES
 USE NATURAL RESOURCES
 REVIEWS
 BT Document types
 RICE
 BT Grains
 RICE HULL
 USE RICE HUSKS
 RICE HUSKS
 UF Rice hull
 BT Crop wastes
 RICE STRAW
 BT Crop wastes
 RT Cooking fuels
 RISK ASSESSMENT
 RT Financial incentives
 RT Fuel cycle
 RISKS
 RT Hazards
 RIVERS
 BT Inland waterways
 ROAD TRANSPORT
 USE LAND TRANSPORT
 ROADS
 UF Highways
 UF Streets
 BT Transport infrastructure
 RT Transport
 ROOT 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
 RT Rural areas
 RURAL ENERGY CONSUMPTION
 BT Energy consumption
 RT Rural areas
 RURAL INDUSTRY
 UF Industry (Rural)
 BT Industry
 NT Cottage industry
 RURAL PLANNING
 BT Planning
 RT Rural development
 RURAL POPULATIONS
 BT Population
 RT Rural areas
 RURAL SANITATION
 BT Sanitation
 SAFETY
 UF Protection
 NT Reactor safety
 RT Hazards
 RT Health hazards
 RT Personnel
 RT Security
 RT Working conditions
 SAFETY (REACTOR)
 USE REACTOR SAFETY
 SAIL BOATS
 BT Boats
 SAND
 RT Construction materials
 RT Clays
 RT Concretes
 RT Soils
 SANITATION
 NT Rural sanitation
 RT Diseases
 RT Health
 RT Water pollution
 SCIENTIFIC COOPERATION
 SCIENTIFIC RESEARCH
 USE RESEARCH
 SCRUBBING
 USE PURIFICATION
 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
 SERVICE LIFE
 UF Life (Service)
 UF life expectancy
 UF Useful life
 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
 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
 - 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 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 HYDROELECTRIC ENERGY/POWER
 - UF Micro-hydro power
 - UF Mini-hydro power
 - BT Hydroelectric energy/power
 - RT Small-scale hydroelectric energy/power
- SMALL-SCALE HYDROELECTRIC POWER PLANTS
 - RT Small-scale hydroelectric energy/power
- SMALL-SCALE INDUSTRY
 - UF Small industry
 - BT Industry
 - NT Cottage industry
- SNG
 - USE SYNTHETIC NATURAL GAS
- SOCIAL ASPECTS
 - UF Aspects (Social)
- SOCIAL CHANGE
 - RT Social development
- SOCIAL CONDITIONS
- SOCIAL DEVELOPMENT
 - RT Social change
- SOCIAL IMPACT
 - RT Socio-economic factors
- SOCIAL INDICATORS
 - RT Basic needs
 - RT Economic indicators
- SOCIAL ORGANIZATION
- 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
- SOCIO-ECONOMIC FACTORS
 - RT Economic impact
 - RT Economics
 - RT Low income groups
 - RT Social impact
- SOIL CHEMISTRY
 - 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 Crops
 - RT Fertilizers
 - RT Irrigation
 - RT Land reclamation
 - RT Sludges
 - RT Soil chemistry
 - RT Soils
 - RT Waste disposal
- SOIL LOSSES
 - 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
 - NT Solar-assisted heat pumps
 - RT Solar air conditioning
- SOLAR 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
 - 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
 - RT Solar dryers
 - RT Solar kilns
- SOLAR 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
 - NT Solar-assisted heat pumps
 - RT Solar space heating
- SOLAR 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
 - 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
 - RT Solar ponds
- 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
- 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
 - 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 GENERATION
 - RT Steam
 - RT Steam generators
- STEAM GENERATORS
 - UF Generators (Steam)

- 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 Pumped storage
 RT Capacity
 RT Transport
 RT Water reservoirs
 STORAGE BATTERIES
 USE ELECTRIC BATTERIES
 STOVES
 UF Chula
 BT Appliances
 BT Electric appliances
 NT Biogas stoves
 RT Food preparation
 RT Ovens
 RT Solar cookers
 STREETS
 USE ROADS
 STRUCTURAL MATERIALS
 USE CONSTRUCTION MATERIALS
 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 Water supply
 SUPPLY AND DEMAND
 NT Demand
 NT Supply
 RT Economics
 RT Market
 RT Trade
 SURVEYS
 BT Data collection
 NT Economic surveys
 NT Energy 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.)
 RT Energy analysis
 RT Reliability
 RT Simulation
 RT Statistical models
 TAIWAN TYPE DIGESTERS

USE BAG TYPE DIGESTERS
 TANKS
 RT Water reservoirs
 TECHNICAL ASPECTS
 UF Aspects (Technical)
 TECHNICAL ASSISTANCE
 RT International cooperation
 RT Technology transfer
 TECHNOLOGICAL CHANGE
 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
 TECHNOLOGY ASSESSMENT
 RT Cost-benefit analysis
 RT Delphi method
 RT Industry
 TECHNOLOGY TRANSFER
 RT Industry
 RT Information
 RT Technical assistance
 TECHNOLOGY UTILIZATION
 RT Industry
 TEMPERATURE
 TEMPORAL ASPECTS
 (Refers to time.)
 UF Aspects (Temporal)
 TENANT FARMERS
 BT Farmers
 TERRESTRIAL ECOSYSTEMS
 BT Ecosystems
 TESTING
 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
 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 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
 RT Ocean motion energy conversion
 TOOLS
 RT Equipment

- TOTAL ENERGY SYSTEMS
 UF Integrated utility systems
 RT Cogeneration
 RT Energy conversion
 RT Energy consumption
- TOWN GAS
 (450 to 550 Btu/cu. ft.)
 BT Fuel gas
 DEF Gas produced by a public utility for general use.
- TOWNS
 RT Urban areas
 RT Urban communities
- TRACTORS
 BT Agricultural machinery
- TRADE
 RT Commercial sector
 RT Economics
 RT Marketing
 RT Supply and demand
- TRADE POLICY
 RT Balance of payments
- TRADITIONAL TECHNOLOGY
 BT Technology
- TRAINING
 NT Vocational training
 RT Education
 RT Training programs
- TRAINING PROGRAMS
 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 Land 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
 RT Transport
- TREATIES
 USE INTERNATIONAL AGREEMENTS
- TREES
 BT Plants
 NT Forest resources
 RT Biomass energy farms
 RT Energy forestry
 RT Forests
 RT Wood
- TRUCKS
 UF Lorries
 BT Vehicles
- 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
- 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 POPULATIONS
 - BT Population
 - RT Urban areas
- URBAN WASTES
 - USE MUNICIPAL WASTES
- URBANIZATION
- URINE
 - BT Animal wastes
 - BT Human wastes
 - RT Dung
 - RT Human excrement
- USEFUL LIFE
 - USE SERVICE LIFE
- UTILIZATION
- VARIATIONS
 - NT Diurnal variations
 - NT Intermittency
 - NT Periodicity
 - NT Seasonal variations
- 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
- VILLAGE ELECTRIFICATION
 - USE RURAL ELECTRIFICATION
- VILLAGES
 - RT Rural communities
- VOCATIONAL TRAINING
 - BT Training
 - NT Agricultural training
 - RT Occupations
- 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
- 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 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
- RT Waterwheels
- WATER GAS
- BT Fuel gas
- 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 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 Wells
- WATER TREATMENT
- RT Sewage
- RT Water quality
- WATER TURBINES
- BT Turbines
- RT Waterwheels
- 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
- 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
 - USE WIND TURBINES
- WIND GENERATORS
- WIND POWER PLANTS
 - BT Electric power plants
 - DEF Wind turbines supplying electric power to a grid.
- WIND TURBINES
 - UF Wind generators
 - RT Turbines
 - RT Wind energy/power
- WINDMILLS
 - RT Wind energy/power
- WOMEN
 - BT Females
 - BT Humans
- WOOD
 - BT Forest products
 - NT Firewood
 - NT Fuelwood
 - RT Construction materials
 - RT Forests
 - RT Fuels
 - RT Harvesting
 - RT Lumber
 - RT Trees
- WOOD ALCOHOL
 - USE METHANOL
- WOOD BURNING FURNACES
 - RT Space heating
- WOOD FUEL
 - USE FUELWOOD
- WOOD GAS
 - USE PRODUCER GAS
- WOOD PULP
 - RT Papermaking
- WOOD WASTES
 - BT Wastes
- WORK
 - (In the sense of labor, use EMPLOYMENT.)
- WORKERS
 - USE PERSONNEL
- WORKING CONDITIONS
 - UF Occupational hazards
- RT Safety
- YEASTS
 - BT Fungi
- YIELD (BIOLOGICAL)
 - USE BIOLOGICAL PRODUCTIVITY

INTENTIONALLY

LEFT BLANK

THESAURUS FOR ENERGY AND RURAL DEVELOPMENT
LIST OF NATIONS

47

AFGHANISTAN
AFRICA
ALBANIA
ALGERIA
AMERICA
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
COMOROS
CONGO
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
FIJI
FINLAND
FRANCE
FRENCH POLYNESIA
GABON
GAMBIA
GERMAN DEMOCRATIC REPUBLIC
 USE EAST GERMANY
GHANA
GREECE
GRENADA
GUATEMALA
GUINEA
GUINEA-BISSAU
GUYANA
HAITI
HONDURAS
HUNGARY
ICELAND
INDIA
INDOCHINA
INDONESIA
IRAN
IRAQ
IRELAND
ISRAEL
ITALY
IVORY COAST
JAMAICA
JAPAN
JORDAN
KAMPUCHEA
 UF CAMBODIA
KENYA

THESAURUS FOR ENERGY AND RURAL DEVELOPMENT
LIST OF NATIONS

KIRIBATI	NORTH AMERICA
KUWAIT	NORTH KOREA
LAO PEOPLE'S DEMOCRATIC REPUBLIC	UF DEMOCRATIC PEOPLE'S REPUBLIC
USE LAOS	OF KOREA
LAOS	NORWAY
UF LAO PEOPLE'S DEMOCRATIC REPUBLIC	OCEANIA
LATIN AMERICA	UF MELANESIA
LEBANON	UF MICRONESIA
LESOTHO	UF PACIFIC ISLANDS
LIBERIA	UF POLYNESIA
LIBYA	OMAN
UF LIBYAN ARAB JAMAHIRIYA	PACIFIC ISLANDS
LIBYAN ARAB JAMAHIRIYA	USE OCEANIA
USE LIBYA	PACIFIC REGION
LIECHTENSTEIN	PAKISTAN
LUXEMBOURG	PANAMA
MADAGASCAR	PAPUA NEW GUINEA
MALAWI	PARAGUAY
MALAYSIA	PEOPLE'S DEMOCRATIC REPUBLIC OF YEMEN
MALDIVES	UF SOUTH YEMEN
MALI	PEOPLE'S REPUBLIC OF CHINA
MALTA	USE CHINA
MAURITANIA	PERU
MAURITIUS	PHILIPPINES
MELANESIA	POLAND
USE OCEANIA	POLYNESIA
MEXICO	USE OCEANIA
MICRONESIA	PORTUGAL
USE OCEANIA	PUERTO RICO
MIDDLE EAST	QATAR
UF NEAR EAST	REPUBLIC OF CHINA
UF WESTERN ASIA	USE TAIWAN
MONACO	REPUBLIC OF KOREA
MONGOLIA	USE SOUTH KOREA
UF MONGOLIAN PEOPLE'S REPUBLIC	RHODESIA
MONGOLIAN PEOPLE'S REPUBLIC	USE ZIMBABWE
USE MONGOLIA	ROMANIA
MOROCCO	RWANDA
MOZAMBIQUE	SAINT CHRISTOPHER-NEVIS
NAMIBIA	SAINT LUCIA
UF SOUTH WEST AFRICA	SAINT VINCENT AND THE GRENADINES
NAURU	SAO TOME AND PRINCIPE
NEAR EAST	SAUDI ARABIA
USE MIDDLE EAST	SENEGAL
NEPAL	SEYCHELLES
NETHERLANDS	SIERRA LEONE
NETHERLANDS ANTILLES	SIKKIM
NEW ZEALAND	SINGAPORE
NICARAGUA	SOLOMON ISLANDS
NIGER	SOMALIA
NIGERIA	SOUTH AFRICA
NORTH AFRICA	SOUTH AMERICA

THESAURUS FOR ENERGY AND RURAL DEVELOPMENT
LIST OF NATIONS

49

SOUTH ASIA
SOUTH EAST ASIA
SOUTH KOREA
UF REPUBLIC OF KOREA
SOUTH WEST AFRICA
USE NAMIBIA
SOUTH YEMEN
USE PEOPLE'S DEMOCRATIC REPUBLIC
OF YEMEN
SPAIN
SRI LANKA
UF CEYLON
SUDAN
SURINAM
SWAZILAND
SWEDEN
SWITZERLAND
SYRIA
TAIWAN
UF REPUBLIC OF CHINA
TANZANIA
THAILAND
TOGO
TONGA
TRINIDAD AND TOBAGO
TUNISIA
TURKEY
TUVALU
UGANDA
UNION OF SOVIET SOCIALIST REPUBLICS
USE USSR
UNITED ARAB EMIRATES
UNITED KINGDOM
UF BRITAIN
UNITED STATES OF AMERICA
USE USA
UPPER VOLTA
URUGUAY
USA
UF UNITED STATES OF AMERICA
USSR
UF UNION OF SOVIET SOCIALIST
REPUBLICS
VENEZUELA
VIETNAM
WEST AFRICA
WEST GERMANY
UF FEDERAL REPUBLIC OF GERMANY
WESTERN ASIA
USE MIDDLE EAST
WESTERN EUROPE
WESTERN SAMOA
YEMEN
USE YEMEN ARAB REPUBLIC
YEMEN ARAB REPUBLIC
UF YEMEN
YUGOSLAVIA
ZAIRE
ZAMBIA
ZIMBABWE
UF RHODESIA

INTENTIONALLY

LEFT BLANK

DIANE M. PRUETT, M.L.S. University of Hawaii, 1979; B.A. Mathematics and Library Science, College of St. Catherine, 1972. Research Intern in the Energy for Rural Development Project at the East-West Resource Systems Institute. Presently coordinating the creation of a computerized bibliographic data base, including a thesaurus. Interested in the application of computer technology to research, particularly literature searching and reference work.

TED S. TOYOSHIBA, JR., B.A. History, University of Hawaii, 1975; M.L.S. University of Hawaii, 1979; a Research Intern in the Energy for Rural Development Program at the East-West Resource Systems Institute. He is currently involved in the development of a bibliographic data base for the field of energy and rural development.

THE EAST-WEST RESOURCE SYSTEMS INSTITUTE is directed to the overall goal of understanding how nations can maintain adequate, equitable, and reliable access to resources. The institute consists of a broad study of three interrelated programs: Food Systems, Energy Systems, and Raw Materials Systems.

International research groups are collaborating with RSI staff to analyze and conduct research on these systems. A series of databases and information exchange facilities is now being developed to support their studies. On an interdisciplinary basis, the various teams will explore these problems stressing their interrelationships in both local and international terms in the Asian and Pacific region.



Food Systems conducts research on the institutional and policy aspects of improving food security in the Asia-Pacific region; examines the complex interactions of administrative, technological, and social issues involved in developing food systems in marginal areas; and explores alternate food systems with special emphasis on: food and the city, food systems based on water environments, and institutional and policy aspects of biological nitrogen fixation.



Energy Systems provides analyses of the vulnerabilities of nations to disruptions in the flow of fuels; collects and analyzes data on energy supply, demand, and flows, especially those in rural areas; evaluates alternative development policies on a variety of energy systems; and develops energy indexing methodologies and information exchange both within and among nations.



Raw Materials Systems is concerned with the identification and evaluation of policy and strategy options that will benefit nations from the exploration and development of their mineral resource potential. The main research areas are: mineral assessment for national planning, innovative government-transnational company arrangements, uncertainties in future commodity trade, and case histories of mineral projects.

THE EAST-WEST CENTER—officially known as the Center for Cultural and Technical Interchange Between East and West—is a national educational institution established in Hawaii by the U.S. Congress in 1960 to promote better relations and understanding between the United States and the nations of Asia and the Pacific through cooperative study, training, and research. The Center is administered by a public, nonprofit corporation whose international Board of Governors consists of distinguished scholars, business leaders, and public servants.

Each year more than 1,500 men and women from many nations and cultures participate in Center programs that seek cooperative solutions to problems of mutual consequence to East and West. Working with the Center's multidisciplinary and multicultural staff, participants include visiting scholars and researchers; leaders and professionals from the academic, government, and business communities; and graduate degree students, most of whom are enrolled at the University of Hawaii. For each Center participant from the United States, two participants are sought from the Asian and Pacific area.

Center programs are conducted by institutes addressing problems of communication, culture learning, environment and policy, population, and resource systems. A limited number of "open" grants are available to degree scholars and research fellows whose academic interests are not encompassed by institute programs.

The U.S. Congress provides basic funding for Center programs and a variety of awards to participants. Because of the cooperative nature of Center programs, financial support and cost-sharing are also provided by Asian and Pacific governments, regional agencies, private enterprise, and foundations. The Center is on land adjacent to and provided by the University of Hawaii.