Sustainable energy is the provision of energy that meets the needs of the present without compromising the ability of future generations to meet their needs. Sustainable energy sources include all renewable energy sources, such as hydroelectricity, solar energy, wind energy, wave power, geothermal energy, bioenergy, and tidal power. It also includes technologies designed to improve energy efficiency.
Carbon Management Sub Taxonomy

Carbon Management Strategy

Carbon Accounting, Offsets & Trading
- International Inventories & Carbon Offset Standards
- Emissions pricing
- International protocols, carbon markets & carbon trading
- Carbon neutrality, carbon inventory & LCA
- National Carbon Offset Standard & accreditation of carbon offsets

Life Cycle Assessment
- Life cycle thinking & Life Cycle Assessment (LCA)
- Life Cycle Assessment concepts & standards
- Life Cycle Process/Inventory LCA
- Economic I-O LCA
- Hybrid LCA models
- LCA software
- LCA of conventional energy, renewable energy & transport
- LCA of infrastructure & built form

Greenhouse Gas Inventory
- National inventories, greenhouse gas accounting standards and law
- Identification, estimation & reporting of Greenhouse Gas emissions

Carbon Capture and Storage
- See associated diagram
Carbon Management – Carbon Capture and Storage Sub Taxonomy

Carbon Management Strategy

Carbon Accounting, Offsets & Trading

Life Cycle Assessment

Greenhouse Gas Inventory

See associated diagram

Carbon Capture and Storage

Pre-combustion capture

Post-combustion capture

Oxyfuel combustion

Materials and components manufacture

System design and construction

Capture and permanent storage

Depleted oil and gas fields

Saline aquifer

Unmineable coal seams

Deep ocean sequestration

Transport

Pipeline

Ship or truck

Materials and components manufacture

System design and construction

Capture and reuse

Value added commodities

Biomass/bioenergy

Algae

Geology and drilling

Resource assessment

Materials and components manufacture

System design and construction

System design and construction

Materials and components manufacture

System design and construction

Value added commodities

Biomass/bioenergy

Algae

Carbon Management Strategy

Carbon Accounting, Offsets & Trading

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System design and construction

System design and construction

Materials and components manufacture

System design and construction

Value added commodities

Biomass/bioenergy

Algae
Enablers Sub Taxonomy

- Economics
  - Economic concepts
  - Structure of energy supply systems
  - Regulation & open access in the energy sector
  - Energy markets
  - Externalities in energy supply
  - Investment decision making techniques & cost benefit analysis
  - Taxation
  - Economics of nuclear power
  - Economics of renewable energy
  - Resource economics, environmental macroeconomics & thermodynamics

- Policy
  - Policy analysis
  - Game theory & energy policy formulation
  - Public choice theory & policy decisions
  - Policy institutions
  - Policy instruments
  - Policy interactions
  - Energy policy in the global environment
  - Energy security
  - Efficiency in the energy sector
  - Energy safety & risk assessment
  - Energy & environmental protection
  - Electricity market reform

- RD&D (including Financing)
- Training & Capacity Building
- Environmental & Social Impacts
- Stakeholder Engagement & Behaviour Change
- Standards
- Sustainable Energy Project and Business Management
- Climate & Energy Law
Energy Solutions for Developing Countries Sub Taxonomy

Improved use of Traditional Energy Uses
- Human and animal power
- Fuelwood and charcoal
- Crop residues

Renewable Energy Sources
- Small scale renewable energy systems
- Electrification using solar
- Cooking with renewable energy
- Wind and water power

Sustainable Transport and Biofuels

Sustainable Development and Enablers
- Successful implementation of renewable energy
- Technology selection, transfer and gender issues
- Markets, microfinance and project planning
Power Generation Technologies - Emerging Sub Taxonomy

Wave
- Resource assessment
- Materials and components manufacture
- System design and construction
- Grid integration

Tidal
- Resource assessment
- Materials and components manufacture
- System design and construction
- Grid integration

OTEC/Osmotic
- Resource assessment
- Materials and components manufacture
- System design and construction
- Grid integration

Hot Rock Geothermal
- Geology and drilling