

DSI's Globlal Environmental Database edition 2020 has been updated and presents 1200+ up-to-date statistical time series indicators across up to 280 countries and regions worldwide.

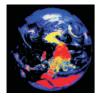
DSI's Global Environmental Database brings together hard-to-find statistics on the environmental issues affecting our climate, our resources, our social communities:

- detailed data on energy consumption and emissions from fuel combustion,
- water resources, land use, agriculture, farming, forestry and fishery,
- human resources (population, education, skills),
- social conditions (health, sanitation, poverty, natural disasters),
- economic core indicators (GDP, production, trade, exchange rates).

DSI's Global Environmental Database is an indispensible source to

- identify trends across different countries,
- compare one country's environmental situation and policies with another,
- find out which countries are making efforts to protect their environment.

CD-RoM archive available: DSI's Global Environmental Database (GED) on CD-RoM comes along with a powerful retrieval engine and includes online access to the corresponding GED internet services without surcharge.



Harmonised Data

Updated on a regular basis, DSI's Global Environmental Database covers the years from 1980 onwards (if available). Most time series have been harmonised and finally merged into a single database for easy access and more comfortable research.

Sources

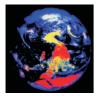
The primary statistics have been researched from official information sources worldwide, especially international organisations, e.g.:

the World Health organisation, the United Nations and its specialised agencies, Eurostat and the European Environment Agency, the Energy Information Administration, International Monetary Fund, Centre for Research on the Epidemiology of Disasters, Intergovernmental Panel on Climate Change, International Union for the Conservation of Nature and Natural Resources, or the World Database on Protected Areas - WDPA Consortium.

Data Access

IP controlled internet access (or variable access by user ID/password) allows data retrieval by keyword search, tree-view or via hierarchical breakdown supported by some powerful online tools for ad hoc analysis:

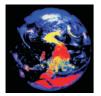
- calculations
- statistical operations (mean, standard deviation, moving average, growth rate, lag)
- forecasts
- reports
- graphics/tables
- data downloading for external analysis, e.g.
 - to identify trends between countries and regions or
 - to create individual environmental performance indices and rankings



Data Coverage

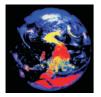
DSI's Global Environmental Database allows to enhance broad national, regional and global environmental analyses.

- I. Elementary Resources
 - atmosphere: air quality, climate
 - water: quality/pollution, reserves
 - terrestrial/soil: land use, fertilization, salinization
- **II. Natural Resources**
 - food
 - agriculture
 - farming
 - fishery
 - forestry
 - biodiversity
- **III.** Mineral Resources
 - coal
 - oil
 - natural gas
 - uranium
- IV. Energy Consumption
 - total
 - by sector
 - coal
 - natural gas
 - oil
 - charcoal
 - biomass, wood, waste
- V. Human Resources
 - population
 - education
 - skills
- VI. Social Conditions
 - health
 - sanitation
 - poverty
 - disasters (natural)
- VII. Economic Core Indicators
 - GDP
 - production
 - trade
 - exchange rates



Country Coverage

Afghanistan, Albania, Algeria, American Samoa, Andorra, Angola, Anguilla, Antarctic, Antigua and Barbuda, Argentina, Armenia, Aruba, Australia, Austria, Azerbaijan, Bahamas, Bahrain, Baker Island, Bangladesh, Barbados, Belarus, Belgium, Belize, Benin, Bermuda, Bhutan, Bolivia, Bosnia and Herzegovina, Botswana, Bouvet Island, Brazil, British Indian ocean Territory, British Virgin Islands, Brunei Darussalam, Bulgaria, Burkina Faso, Burundi, Cambodia, Cameroon, Canada, Cape Verde, Cayman Islands, Central African Republic, Chad, Chile, China, Christmas Island, Cocos (Keeling) Islands, Colombia, Comoros, Congo, Cook Islands, Costa Rica, Cote d'Ivoire, Croatia, Cuba, Cyprus, Czech Republic, Democratic People's Republic of Korea, Democratic Republic of the Congo, Denmark, Djibouti, Dominica, Dominican Republic, Ecuador, Egypt, El Salvador, Eguatorial Guinea, Eritrea, Estonia, Ethiopia, Falkland Islands (Malvinas), Faroe Islands, Fiji, Finland, France, French Guiana, French Polynesia, French Southern and Antarctic Territories, Gabon, Gambia, Georgia, Germany, Ghana, Gibraltar, Glorioso Islands, Greece, Greenland, Grenada, Guadeloupe, Guam, Guatemala, Guernsey, Guinea, Guinea-Bissau, Guyana, Haiti, Heard Island & McDonald Islands, Holy See, Honduras, Howland Island, Hungary, Iceland, India, Indonesia, Iran (Islamic Republic of), Iraq, Ireland, Isle of Man, Israel, Italy, Jamaica, Japan, Jarvis Island, Jersey, Johnston Atoll, Jordan, Juan De Nova Island, Kazakhstan, Kenya, Kiribati, Kosovo, Kuwait, Kyrgyzstan, Lao People's Democratic Republic, Latvia, Lebanon, Lesotho, Liberia, Libyan Arab Jamahiriya Liechtenstein, Lithuania, Luxembourg, Macau, China, Madagascar, Malawi, Malaysia, Maldives, Mali, Malta, Marshall Islands, Martinique, Mauritania, Mauritius, Mayotte, Mexico, Micronesia (Federated States of), Midway Islands, Moldova, Republic of, Monaco, Mongolia, Montenegro, Montserrat, Morocco, Mozambigue, Myanmar, Namibia, Nauru, Nepal, Netherlands, Netherlands Antilles, New Caledonia, New Zealand, Nicaragua, Niger, Nigeria, Niue, Norfolk Island, Northern Mariana Islands, Norway, occupied Palestinian Territory, oman, Pakistan, Palau, Panama, Papua New Guinea, Paracel Islands, Paraguay, Peru, Philippines, Pitcairn Island, Poland, Portugal, Puerto Rico, Qatar, Republic of Korea, Reunion, Romania, Russian Federation, Rwanda, Saint Helena, Saint Kitts and Nevis, Saint Lucia, Saint Pierre and Miguelon, Saint Vincent and the Grenadines, Samoa, San Marino, Sao Tome and Principe, Saudi Arabia, Senegal, Serbia, Seychelles, Sierra Leone, Singapore, Slovakia, Slovenia, Solomon Islands, Somalia, South Africa, South Georgia and the South Sandwich Islands, Spain, Spratly Islands, Sri Lanka, Sudan, Suriname, Svalbard and Jan Mayen Islands, Swaziland, Sweden, Switzerland, Syrian Arab Republic, Taiwan, Tajikistan, Thailand, The former Yugoslav Republic of Macedonia, Togo, Tokelau, Tonga, Trinidad and Tobago, Tunisia, Turkey, Turkmenistan, Turks and Caicos Islands, Tuvalu, Uganda, Ukraine, United Arab Emirates, United Kingdom of Great Britain and Northern Ireland, United Republic of Tanzania, United States of America, United States Virgin Islands, Uruguay, Uzbekistan, Vanuatu, Venezuela, Viet Nam, Wake Island, Wallis and Futuna, Western Sahara, Yemen, Serbia, Zambia, Zimbabwe.

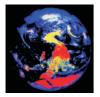


Regions Coverage

World

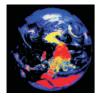
Africa, Asia + Pacific, Europe, Latin America + Caribbean, North America, Polar, West Asia.

Central Africa, Eastern Africa, Northern Africa, Southern Africa, Western Africa, Western Indian ocean, Australia + New Zealand, Central Asia, NW Pacific + East Asia, South Asia, South East Asia, South Pacific, Central Europe, Eastern Europe, Western Europe, Caribbean, Meso America, South America, North America, Antarctic, Arctic, Arabian Peninsula, Mashriq.

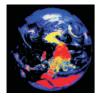


List of indicators

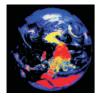
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I. Elementary Resources
      - atmosphere
             climate: average temperature
             climate: average Co2 concentration ("Keeling Curve")
             quality: emissions of ozone-depleting substances
             quality: PM 10
             quality: emissions from fuel combustion
             (->Methodologies for calculation of energy consumption by sector)
                   coal
                          carbon dioxide, Co2
                          methan, CH4
                          nitrous oxide, N2o
                          nitrogen oxide, NoX
                          carbon monoxide, Co
                          non-methane volatile organic compounds, NMVoC
                          sulphur dioxide, So2
                   natural gas
                          carbon dioxide, Co2
                          methan, CH4
                          nitrous oxide, N2o
                          nitrogen oxide, NoX
                          carbon monoxide, Co
                          non-methane volatile organic compounds, NMVoC
                          sulphur dioxide, So2
                   oil
                          carbon dioxide, Co2
                          methan, CH4
                          nitrous oxide, N2o
                          nitrogen oxide, NoX
                          carbon monoxide, Co
                          non-methane volatile organic compounds, NMVoC
                          sulphur dioxide, So2
                   charcoal
                          carbon dioxide, Co2
                          methan, CH4
                          nitrous oxide, N2o
                          nitrogen oxide, NoX
                          carbon monoxide, Co
                          non-methane volatile organic compounds, NMVoC
                          sulphur dioxide, So2
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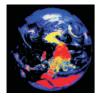
biomass/ wood/ waste carbon dioxide, Co2 methan, CH4 nitrous oxide, N2o nitrogen oxide, NoX carbon monoxide, Co non-methane volatile organic compounds, NMVoC sulphur dioxide, So2 quality: emissions from fossil fuel combustion by sectors total emissions from energy sector carbon dioxide, Co2 methan, CH4 nitrous oxide, N2o nitrogen oxide, NoX carbon monoxide, Co non-methane volatile organic compounds, NMVoC sulphur dioxide, So2 total emissions from manufacturing sector carbon dioxide, Co2 methan, CH4 nitrous oxide, N2o nitrogen oxide, NoX carbon monoxide, Co non-methane volatile organic compounds, NMVoC sulphur dioxide, So2 total emissions from transport sector carbon dioxide, Co2 methan, CH4 nitrous oxide, N2o nitrogen oxide, NoX carbon monoxide, Co non-methane volatile organic compounds, NMVoC sulphur dioxide, So2 total emissions from other sectors carbon dioxide, Co2 methan, CH4 nitrous oxide, N2o nitrogen oxide, NoX carbon monoxide, Co non-methane volatile organic compounds, NMVoC sulphur dioxide, So2



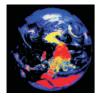
total emissions from fuel carbon dioxide, Co2 methan, CH4 nitrous oxide, N2o nitrogen oxide, NoX carbon monoxide, Co non-methane volatile organic compounds, NMVoC sulphur dioxide, So2 quality: emissions from total fuel combustion by sectors total emissions from energy sector carbon dioxide, Co2 methan, CH4 nitrous oxide, N2o nitrogen oxide, NoX carbon monoxide, Co non-methane volatile organic compounds, NMVoC sulphur dioxide, So2 total emissions from manufacturing sector carbon dioxide, Co2 methan, CH4 nitrous oxide, N2o nitrogen oxide, NoX carbon monoxide, Co non-methane volatile organic compounds, NMVoC sulphur dioxide, So2 total emissions from transport sector carbon dioxide, Co2 methan, CH4 nitrous oxide, N2o nitrogen oxide, NoX carbon monoxide, Co non-methane volatile organic compounds, NMVoC sulphur dioxide, So2 total emissions from other sectors carbon dioxide, Co2 methan, CH4 nitrous oxide, N2o nitrogen oxide, NoX carbon monoxide, Co non-methane volatile organic compounds, NMVoC sulphur dioxide, So2



total emissions from fuel carbon dioxide, Co2 methan, CH4 nitrous oxide, N2o nitrogen oxide, NoX carbon monoxide, Co non-methane volatile organic compounds, NMVoC sulphur dioxide, So2 - water fresh water resource precipitation exploitable fossil abstraction of fossil groundwater expected time that fossil groundwater will last harvesting renewable water resources: total renewable per capita (actual) groundwater surface water freshwater total internal renewable total internal per capita total external renewable (actual) total renewable (actual) withdrawal by sector agricultural water domestic water industrial water total water (summed by sector) agricultural water withdrawal as part of total domestic water withdrawal as part of total industrial water withdrawal as part of total surface water groundwater freshwater water stress irrigation/ drainage drained area total area equipped for irrigation non-irrigated area



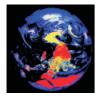
area equipped for irrigation total actual irrigated irrigation potential full control - surface full control - sprinkler full control - localized full control - total lowlands power irrigated area power irrigated area as percentage spate irrigation part of area actually irrigated percentage of water managed area percentage of irrigation potential percentage of cultivated land by groundwater by surface water by other sources flood recession cropping area cultivated wetlands and inland valley bottoms agricultural water managed area grain production irrigated desalinated waste water produced organic pollution total industry chemical industry clay and glass industry food industry metal industry paper & pulp industry textile industry wood industry other industry treated



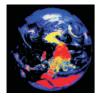
amides anticoagulants benzimidazoles benzimidazoles-seedTrF bipiridils botanic prod&biologSdTrF botanic. produc & biologic. carbamates herbicides carbamates insecticides carbamates-insect-SdTr chlorinated hydrocarbons cyanide generators diazines, morpholines dinitroanilines disinfectants disinfectants + (total) dithiocarbamates dithiocarbamates-seedTrF fungicides & bactericides + (total) herbicides + (total) hypercalcaemics inorganics insecticides + (total) mineral oils mineral oils + (total) narcotics organo-phospates-SdTr In organo-phosphates other fungicides other herbicides other insecticides other pesticides nes other pesticides nes + (total) other rodenticides others-seedtreat ins others-seedtreatfung phenoxy hormone products plant growth regulators plant growth regulators + (total) pyrethroids pyrethroids-seedTr Ins rodenticides + (total) seed treatm fungicides + (total)



- terrestrial/soil			
land use			
total area			
parks and protected areas - terrestric and marine			
agricultural area			
agricultural area certified organic			
agricultural area in conversion to organic			
agricultural area irrigated			
agricultural area organic, total			
arable land			
arable land and permanent crops			
arable land area certified organic			
arable land area in conversion to organic			
arable land organic, total			
country area			
fallow land			
forest area			
inland water			
land area			
other land			
perm. meadows & pastures - cultivated			
perm. meadows & pastures - nat. grown			
permanent crops			
permanent crops area certified organic			
permanent crops area in conversion to organic			
permanent crops organic, total			
permanent meadows and pastures			
permanent meadows and pastures area certified organic			
permanent meadows and pastures area in conversion to organic			
permanent meadows and pastures organic, total			
temporary crops			
temporary meadows and pastures			
total area equipped for irrigation			
fertilization			
total - consumption			
total - production			
ammonia, anhydrous - consumption			
ammonia, anhydrous - production			
ammonium nitrate - consumption			
ammonium nitrate - production			
ammonium sulphate - consumption			
ammonium sulphate - production			
calcium ammonium nitrate - consumption			



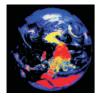
calcium ammonium nitrate - production diammonium phosphate - consumption diammonium phosphate - production monoammonium phosphate - consumption monoammonium phosphate - production nitrogen fertilizers - consumption nitrogen fertilizers - production NPK blends - consumption NPK complex - consumption NPK complex - production NPK complex <=10kg - consumption NPK complex $\leq =10$ kg - production NPK complex >10kg - consumption NPK complex >10kg - production other nitrogen & phosphates compounds - consumption other nitrogen & phosphates compounds - production other nitrogen & phosphorus compounds - consumption other nitrogen & phosphorus compounds - production other NP compounds - consumption other NP compounds - production phosphate fertilizers - consumption phosphate fertilizers - production phosphate rock - consumption phosphate rock - production PK compounds - consumption PK compounds - production potash fertilizers - consumption potash fertilizers - production potassium chloride (muriate of potash); consumption potassium chloride (muriate of potash);production potassium nitrate - consumption potassium nitrate - production potassium sulphate - consumption potassium sulphate - production superphosphate - consumption superphosphate - production superphosphate above 35%; consumption superphosphate above 35%; production superphosphate other - consumption superphosphate other - production urea - consumption urea - production urea and ammonium nitrate solutions - consumption urea and ammonium nitrate solutions - production pesticides



seed treatment insecticides + (total) sulfonyl ureas triazines triazoles diazoles-SdTrF triazoles, diazoles uracil urea derivates salinisation

II. Natural Resources

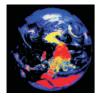
- food production
- food supply
 - livestock, fish ... animal fats animal products quatic animals, others aquatic plants aquatic products, other bovine meat



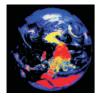
treenuts vegetable oils vegetables vegetables, other vegetal products wheat and products wine yams

- agriculture

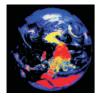
production indices gross per capita production index number meat indigenous, total milk, total oilcrops primary roots and tubers, total sugar, raw vegetables and fruit primary agriculture cereals, total crops food livestock non food gross production index number meat indigenous, total milk, total oilcrops primary roots and tubers, total sugar, raw vegetables and fruit primary agriculture cereals, total crops food livestock non food net per capita production index number meat indigenous, total milk, total oilcrops primary



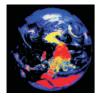
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roots and tubers, total
             sugar, raw
             vegetables and fruit primary
             agriculture
             cereals, total
             crops
             food
             livestock
             non food
      net production index number
             meat indigenous, total
             milk, total
             oilcrops primary
             roots and tubers, total
             sugar, raw
             vegetables and fruit primary
             agriculture
             cereals, total
             crops
             food
             livestock
             non food
production
      oil crops production in oil equivalent
      agave fibres nes - land use
      agave fibres nes - yield
      agave fibres nes - production
      almonds, with shell - land use
      almonds, with shell - yield
      almonds, with shell - production
      anise, badian, fennel, corian. - land use
      anise, badian, fennel, corian. - yield
      anise, badian, fennel, corian. - production
      apples - land use
      apples - yield
      apples - production
      apricots - land use
      apricots - yield
      apricots - production
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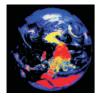
arecanuts - land use arecanuts - yield arecanuts - production artichokes - land use artichokes - vield artichokes - production asparagus - land use asparagus - yield asparagus - production avocados - land use avocados - yield avocados - production bambara beans - seed bambara beans - land use bambara beans - yield bambara beans - production bananas - land use bananas - yield bananas - production barley - seed barley - land use barley - yield barley - production beans, dry - seed beans, dry - land use beans, dry - yield beans, dry - production beans, green - land use beans, green - yield beans, green - production berries nes - land use berries nes - yield berries nes - production blueberries - land use blueberries - vield blueberries - production brazil nuts, with shell - production brazil nuts, with shell - land use brazil nuts, with shell - yield



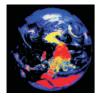
broad beans, horse beans, dry - land use broad beans, horse beans, dry - yield broad beans, horse beans, dry - production broad beans, horse beans, dry - seed buckwheat - land use buckwheat - yield buckwheat - production buckwheat - seed cabbages and other brassicas - land use cabbages and other brassicas - yield cabbages and other brassicas - production cabbages and other brassicas - seed canary seed - seed canary seed - land use canary seed - yield canary seed - production carobs - land use carobs - yield carobs - production carrots and turnips - land use carrots and turnips - yield carrots and turnips - production carrots and turnips - seed cashew nuts, with shell - land use cashew nuts, with shell - yield cashew nuts, with shell - production cashewapple - land use cashewapple - yield cashewapple - production cassava - land use cassava - vield cassava - production cassava - seed cassava leaves - land use cassava leaves - vield cassava leaves - production castor oil seed - seed castor oil seed - land use castor oil seed - yield



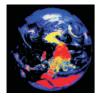
castor oil seed - production cauliflowers and broccoli - land use cauliflowers and broccoli - yield cauliflowers and broccoli - production cauliflowers and broccoli - yield cereals (rice milled) - seed cereals (rice milled) - land use cereals (rice milled) - yield cereals (rice milled) - production cereals, not identified separately - seed cereals, not identified separately - land use cereals, not identified separately - yield cereals, not identified separately - production cereals, total - seed cereals, total - land use cereals, total - yield cereals, total - production cherries - land use cherries - production chestnuts - land use chestnuts - vield chestnuts - production chick peas - seed chick peas - land use chick peas - yield chick peas - production chicory roots - land use chicory roots - yield chicory roots - production chillies and peppers, dry - land use chillies and peppers, dry - yield chillies and peppers, dry - production chillies and peppers, green - land use chillies and peppers, green - yield chillies and peppers, green - production cinnamon (canella) - production cinnamon (canella) - land use cinnamon (canella) - yield citrus fruit, not identified separately - land use



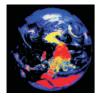
citrus fruit, not identified separately - production citrus fruit, total - land use citrus fruit, total - yield citrus fruit, total - production cloves - land use cloves - yield cloves - production coarse grain, total - seed coarse grain, total - land use coarse grain, total - yield coarse grain, total - production cocoa beans - land use cocoa beans - yield cocoa beans - production coconuts - land use coconuts - yield coconuts - production coconuts - seed coffee, green - land use coffee, green - yield coffee, green - production coir - production cotton lint - production cottonseed - seed cottonseed - production cow peas, dry - seed cow peas, dry - land use cow peas, dry - yield cow peas, dry - production cranberries - land use cranberries - vield cranberries - production cucumbers and gherkins - land use cucumbers and gherkins - yield cucumbers and gherkins - production currants - land use currants - yield currants - production dates - land use



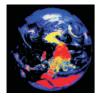
dates - yield dates - production eggplants (aubergines) - land use eggplants (aubergines) - yield eggplants (aubergines) - production fibre crops nes - land use fibre crops nes - yield fibre crops nes - production fibre crops primary - land use fibre crops primary - yield fibre crops primary - production fibre crops primary - seed figs - land use figs - yield figs - production flax fibre and tow - land use flax fibre and tow - vield flax fibre and tow - production fonio - seed fonio - land use fonio - yield fonio - production fruit excl. melons, total - land use fruit excl. melons, total - yield fruit excl. melons, total - production fruit fresh nes - land use fruit fresh nes - yield fruit fresh nes - production fruit, tropical fresh nes - production fruit, tropical fresh nes - land use fruit, tropical fresh nes - yield garlic - land use garlic - yield garlic - production garlic - seed ginger - land use ginger - yield ginger - production gooseberries - land use



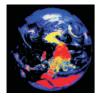
gooseberries - yield gooseberries - production grapefruit (inc. pomelos) - land use grapefruit (inc. pomelos) - yield grapefruit (inc. pomelos) - production grapes - land use grapes - yield grapes - production groundnuts, with shell - land use groundnuts, with shell - yield groundnuts, with shell - production groundnuts, with shell - seed ums natural - production hazelnuts, with shell - land use hazelnuts, with shell - yield hazelnuts, with shell - production hemp tow waste - land use hemp tow waste - yield hemp tow waste - production hempseed - seed hempseed - land use hempseed - yield hempseed - production hops - land use hops - yield hops - production jojoba seeds - land use jojoba seeds - yield ioioba seeds - production jute - land use jute - yield jute - production jute & jute-like fibres - land use jute & jute-like fibres - yield jute & jute-like fibres - production kapok fibre - production kapok fibre - land use kapok fibre - yield kapok fibre - production



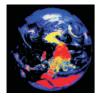
kapokseed in shell - production karite nuts (sheanuts) - land use karite nuts (sheanuts) - yield karite nuts (sheanuts) - production kiwi fruit - land use kiwi fruit - yield kiwi fruit - production kolanuts - land use kolanuts - vield kolanuts - production leeks, other alliaceous veg - land use leeks, other alliaceous veg - yield leeks, other alliaceous veg - production leguminous vegetables, not identified separately - land use leguminous vegetables, not identified separately - yield leguminous vegetables, not identified separately - production lemons and limes - land use lemons and limes - yield lemons and limes - production lentils - seed lentils - land use lentils - yield lentils - production lettuce and chicory - land use lettuce and chicory - yield lettuce and chicory - production linseed - seed linseed - land use linseed - vield linseed - production lupins - land use lupins - yield lupins - production lupins - seed maize - seed maize - land use maize - vield maize - production maize, green - land use



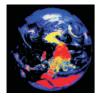
maize, green - yield maize, green - production maize, green - seed mangoes, mangosteens, guavas - land use mangoes, mangosteens, guavas - yield mangoes, mangosteens, guavas - production manila fibre (abaca) - land use manila fibre (abaca) - yield manila fibre (abaca) - production maté - land use maté - vield maté - production melonseed - production melonseed - seed melonseed - land use melonseed - yield millet - seed millet - land use millet - vield millet - production mixed grain - seed mixed grain - land use mixed grain - yield mixed grain - production mushrooms and truffles - production mushrooms and truffles - land use mushrooms and truffles - yield mustard seed - land use mustard seed - vield mustard seed - production mustard seed - seed natural rubber - land use natural rubber - yield natural rubber - production nutmeg, mace and cardamoms - land use nutmeg, mace and cardamoms - yield nutmeg, mace and cardamoms - production nuts, not identified separately - land use nuts, not identified separately - yield



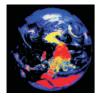
nuts, not identified separately - production nuts, not identified separately - seed oats - seed oats - land use oats - vield oats - production oil palm fruit - land use oil palm fruit - yield oil palm fruit - production oilcakes equivalent - seed oilcakes equivalent - land use oilcakes equivalent - yield oilcakes equivalent - production oilcrops primary - seed oilcrops primary - land use oilcrops primary - yield oilcrops primary - production oilseeds, not identified separately - production oilseeds, not identified separately - land use oilseeds, not identified separately - yield oilseeds, not identified separately - seed okra - land use okra - vield okra - production okra - seed lives - land use lives - yield olives - production onions (incl. shallots), green - land use onions (incl. shallots), green - yield onions (incl. shallots), green - production onions (incl. shallots), green - seed onions, dry - land use onions, dry - yield onions, dry - production onions, dry - seed oranges - land use oranges - yield oranges - production



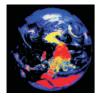
other bastfibres - land use other bastfibres - yield other bastfibres - production other melons (incl. cantaloupes) - land use other melons (incl. cantaloupes) - yield other melons (incl. cantaloupes) - production palm kernels - production palm oil - production papayas - land use papayas - yield papayas - production peaches and nectarines - land use peaches and nectarines - yield peaches and nectarines - production pears - land use pears - yield pears - production peas, dry - seed peas, dry - land use peas, dry - yield peas, dry - production peas, green - land use peas, green - yield peas, green - production pepper (piper spp.) - land use pepper (piper spp.) - yield pepper (piper spp.) - production peppermint - production peppermint - land use peppermint - yield persimmons - land use persimmons - yield persimmons - production pigeon peas - seed pigeon peas - land use pigeon peas - yield pigeon peas - production pineapples - land use pineapples - yield



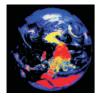
pineapples - production pistachios - land use pistachios - yield pistachios - production plantains - land use plantains - yield plantains - production plums and sloes - land use plums and sloes - yield plums and sloes - production pome fruit, not identified separately - land use pome fruit, not identified separately - yield pome fruit, not identified separately - production popcorn - land use popcorn - yield popcorn - production poppy seed - seed poppy seed - land use poppy seed - yield poppy seed - production potatoes - seed potatoes - land use potatoes - yield potatoes - production pulses, not identified separately - seed pulses, not identified separately - land use pulses, not identified separately - yield pulses, not identified separately - production pulses, total - seed pulses, total - land use pulses, total - yield pulses, total - production pumpkins, squash and gourds - land use pumpkins, squash and gourds - yield pumpkins, squash and gourds - production pyrethrum, dried - production pyrethrum, dried - land use pyrethrum, dried - yield quinces - land use



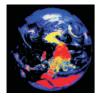
quinces - yield quinces - production quinoa - seed quinoa - land use quinoa - vield quinoa - production ramie - land use ramie - yield ramie - production rapeseed - land use rapeseed - yield rapeseed - production rapeseed - seed raspberries - land use raspberries - yield raspberries - production rice, paddy - seed rice, paddy - land use rice, paddy - yield rice, paddy - production roots and tubers, not identified separately - land use roots and tubers, not identified separately - yield roots and tubers, not identified separately - production roots and tubers, not identified separately - seed roots and tubers, total - seed roots and tubers, total - land use roots and tubers, total - yield roots and tubers, total - production rve - seed rye - land use rye - yield rye - production safflower seed - seed safflower seed - land use safflower seed - yield safflower seed - production sangerines, mandarins, clem. - land use sangerines, mandarins, clem. - yield sangerines, mandarins, clem. - production



seed cotton - land use seed cotton - vield seed cotton - production seed cotton - seed sesame seed - seed sesame seed - land use sesame seed - yield sesame seed - production sisal - land use sisal - yield sisal - production sorghum - seed sorghum - land use sorghum - yield sorghum - production sour cherries - land use sour cherries - vield sour cherries - production soybeans - seed soybeans - yield soybeans - production spices, not identified separately - land use spices, not identified separately - yield spices, not identified separately - production spinach - land use spinach - yield spinach - production stone fruit, not identified separately - land use stone fruit, not identified separately - vield stone fruit, not identified separately - production strawberries - production strawberries - land use strawberries - yield string beans - land use string beans - yield string beans - production sugar beet - land use sugar beet - yield sugar beet - production



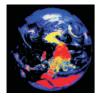
sugar cane - land use sugar cane - yield sugar cane - production sugar cane - seed sugar crops, not identified separately - land use sugar crops, not identified separately - yield sugar crops, not identified separately - production sunflower seed - seed sunflower seed - land use sunflower seed - yield sunflower seed - production sweet potatoes - land use sweet potatoes - yield sweet potatoes - production sweet potatoes - seed taro (cocoyam) - land use taro (cocoyam) - yield taro (cocoyam) - production taro (cocoyam) - seed tea - land use tea - yield tea - production tobacco, unmanufactured - land use tobacco, unmanufactured - yield tobacco, unmanufactured - production tomatoes - land use tomatoes - yield tomatoes - production treenuts, total - land use treenuts, total - yield treenuts, total - production treenuts, total - seed triticale - land use triticale - yield triticale - production triticale - seed tung Nuts - land use tung Nuts - yield tung Nuts - production



vanilla - land use vanilla - vield vanilla - production vegetables & melons, total - land use vegetables & melons, total - yield vegetables & melons, total - production vegetables & melons, total - seed vegetables fresh nes - production vegetables fresh nes - seed vegetables primary - land use vegetables primary - yield vegetables primary - production vegetables primary - seed vetches - seed vetches - land use vetches - yield vetches - production walnuts, with shell - land use walnuts, with shell - yield walnuts, with shell - production watermelons - land use watermelons - production watermelons - seed wheat - seed wheat - land use wheat - yield wheat - production yams - land use vams - vield yams - production yams - seed yautia (cocoyam) - land use yautia (cocoyam) - yield yautia (cocoyam) - production yautia (cocoyam) - seed

- farming

asses stocks camels stocks cattle stocks



cattle and buffaloes stocks chickens stocks goats stocks horses stocks mules stocks poultry stocks sheep stocks sheep and goats stocks beehives stocks buffaloes stocks ducks stocks geese and guinea fowls stocks pigs stocks turkeys stocks rabbits and hares stocks other camelids stocks other rodents stocks pigeons stocks

- fishery

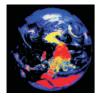
global production (catches) fishery products total all fishing regions inland waters total aquaculture production fishery products total freshwater brackish water seawater

- forestry

roundwood production - total

- biodiversity
 - animal species threatened plant species - threatened total species - threatened

III. Mineral Resources



estimated recoverable coal crude oil reserves natural gas reserves uranium reserves uranium reserves - speculative

IV. Energy Consumption

- by sector

coal

energy industries manufacturing industries and construction transport other (includes agriculture, commercial and public services, residential, and non-specific other) total

qas

energy industries manufacturing industries and construction transport other (includes agriculture, commercial and public services, residential, and non-specific other) total

oil

energy industries manufacturing industries and construction transport other (includes agriculture, commercial and public services, residential, and non-specific other) total

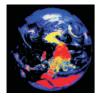
charcoal

energy industries manufacturing industries and construction transport other (includes agriculture, commercial and public services, residential, and non-specific other)

total

biomass, wood, waste

manufacturing industries and construction



other (includes agriculture, commercial and public services, residential, and non-specific other) total all fuels incl. biomass fossile fuels total sectoral aggregation total and total fossil energy industries manufacturing industries and construction transport other (includes agriculture, commercial and public services, residential, and non-specific other)

V. Human Resources

- population

total population urban population rural population population in urban areas annual population growth rate percentage of population aged 60+ years total fertility rate population density female economically active population in agriculture male economically active population in agriculture total economically active population in agriculture

- education

net primary school enrollment - males net primary school enrollment - females

- skills

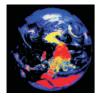
adult literacy rate illiterate population

VI. Social Conditions

- health

diseases

population affected by water related disease



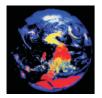
HIV prevalence aged 15 to 49 tuberculosis - incidence healthy life expectancy at birth healthy life expectancy at birth - total population healthy life expectancy at birth - males healthy life expectancy at birth - females life expectancy at birth life expectancy at birth - total population life expectancy at birth - males life expectancy at birth - females mortality children neonatale rate children birth up to age 1 children < 5adult (males, females, total) maternal mortality expenditure on health private expenditure on health general government expenditure on health external resources for health social security expenditure on health out-of-pocket expenditure on health prepaid plans total expenditure on health per capita government expenditure on health - sanitation - poverty total population rural population urban population - losses/natural disasters *)

affected people

killed people

*) natural disasters := drought, earthquake/seismic activity, epidemic, extreme temperature, flood, insect infestation, mass movement: dry and wet, volcanos, wild fire, storm

VII. Economic Core Indicators GDP production trade exchange rates



Methodologies for the calculation of energy consumption

Introduction

The calculation of energy consumption is based on a sectoral view by using the Tier 1 Sectoral Approach from the Revised 1996 IPCC (Intergovernmental Panel on Climate Change) Guidelines for National Greenhouse Gas Inventories.

Sectors:

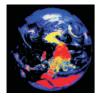
- Energy Sector (IPCC Source/Sink Category 1A1)
- Manufacturing and Construction Sector (IPCC Source/Sink Category 1A2)
- Transport Sector (IPCC Source/Sink Category 1A3)
- Other Sectors (IPCC Source/Sink Category 1A4)

Fuel categories:

- Fossile Fuels
 - Coal
 - Natural Gas
 - Oil
- Charcoal
- Biomass and Wastes

Recalculations

To make data more comparable all energy statistics are recalculated and expressed in Terra Joule (TJ) units. The underlying Net Calorific Values (NCV) are estimated by Kainou Kazunari (Kazunari, Kainou 2005: Revision of default Net Calorific Value, Carbon Content Factor and Carbon Oxidization Factor for various fuels in 2006 IPCC GHG Inventory Guideline) and might differ from the default values as listed in the 1996 IPCC guidelines.



Methodologies for the calculation of greenhouse gas emissions

Introduction

Based on the sectoral energy statistics, as calculated in this publication, the greenhouse gas emissions (CO2, CH4, N2O, NOX, CO, NOVOC) and the emission of sulphur dioxide (SO2) are also determined by the Tier 1 Sectoral Approach from the Revised 1996 IPCC (Intergovernmental Panel on Climate Change) Guidelines for National Greenhouse Gas Inventories.

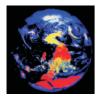
CO2 Emissions

The Carbon Emission Factors (CEF) used here are estimated by Kainou Kazunari (Kazunari, Kainou 2005: Revision of default Net Calorific Value, Carbon Content Factor and Carbon Oxidization Factor for various fuels in 2006 IPCC GHG Inventory Guideline) and might differ from the default values as listed in the 1996 IPCC guidelines.

To harmonise the statistical results the CEF values shown there are used for all countries. Stored carbon is not specially calculated.

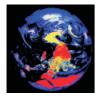
CH4, N2O, NOX, CO, NOVOC, SO2 Emissions

The emission factors could vary from the default values as shown in the Revised 1996 IPCC Guidelines: the sectors "Transport" and "Other Sectors" are calculated on one aggregated level with one emission factor per fuel category only.



Abbreviations

multiplication factors				
	10^15	1 000 000 000 000 000	peta	
	10^12	1 000 000 000 000	tera	
	10^9	1 000 000 000	giga	
	10^6	1 000 000	mega	
	10^3	1 000	kilo	
	10^-6	0,000001	microgram	
<u>units</u>				
	t	metric tonne		
	k	kilogram		
	TJ TJ not	tera joule $(1 \text{ TJ} = 2,388*10^{-5})$	Mtoe)	
	TJ - net	tera joule - net calorific value		
info note	Mtoe m^3	million tonnes of oil equivalent cubic metre		
	ha	hectar		
	hg	hectogram		
	°C	degree Celsius		
	yr	year		
	mm	millimetre		
	mio	million		
	%	percent		
	ODP	ozone depleting potential		
	ppm	parts per million		
	ug	microgram		
	kcal	kilocalorie		
chemical compounds				
	CFCs	chlorofluorocarbons		
	CH4	methane		
	CO	carbon monoxide		
	CO2	carbon dioxide		
	HCFCs	hydrochlorofluorocarbons		
	N2O	nitrous oxide	a una sa cura d	
	NMVOC	non-methane volatile organic co	ompouna	
	NOX SO2	nitrogen oxides		
stand		sulphur dioxide		
standard equivalents 1 TJ 23.885 tonnes of oil equivalent (toe)			(toe)	
	1 t	1.1023 short tons	(100)	
	1 ha	10 000 m ² (square metres)		
	1 hg	0,1 kg		
other	0			
	BOD	biochemical oxygene demand		
	PM 10	particular matter < 10ug		
		-		



sources of the underlying data material or methods

CRED	Centre for Research on the Epidemiology of Desasters
DSI	DSI Data Service & Information
EEA	European Environment Agency
EIA	Energy Information Administration
Eurostat	Statistical Office of the European Communities
FAO	Food and Agriculture Organization of the United Nations
IMF	International Monetary Fund
IPCC	Intergovernmental Panel on Climate Change
IUCN	International Union for the Conservation of Nature and
	Natural Resources
OECD	Organisation for Economic Co-operation and Development
UN	United Nations and its specialized agencies
WB	World Bank
WDCGG	World Data Centre for Greenhouse Gases
WDPA	World Database on Protected Areas - WDPA Consortium
WHO	World Health Organization