

# CLIMATE WATCH EXPLORE NDCS METADATA

This document accompanies Climate Watch Explore NDCs module. This is informational only and explains some of the indicators and categories used for presenting NDCs within the module.

## OVERVIEW

### Overview of Commitments

#### ■ Mitigation contribution type

Mitigation contributions in NDCs can take the form of actions, outcomes (GHG or non-GHG outcomes), or a combination of actions and outcomes.

#### ■ GHG target type

GHG targets refer to contributions framed as targeted outcomes in GHG terms (including Base year target, Fixed level target, Baseline scenario target, Intensity target, and Trajectory target)

- *Base year target:* A commitment to reduce, or control the increase of, emissions by a specified quantity relative to a base year.
- *Fixed level target:* A commitment to reduce, or control the increase of, emissions to an absolute emissions level in a target year. One type of fixed-level goal is a carbon neutrality goal, which is designed to reach zero net emissions by a certain date.
- *Baseline scenario target:* A commitment to reduce emissions by a specified quantity relative to a projected emissions baseline scenario. A baseline scenario is a reference case that represents future events or conditions most likely to occur in the absence of activities taken to meet the mitigation goal.
- *Intensity target:* A commitment to reduce emissions intensity (emissions per unit of another variable, typically

GDP) by a specified quantity relative to a historical base year.

- *Trajectory target:* A commitment to reduce, or control the increase of, emissions to specified emissions quantities in multiple target years or periods over a long time period (such as targets for 2020, 2030, and 2040 over the period 2020-2050).

#### ■ Non-GHG target

Non-GHG targets refer to contributions that are framed in terms of specific, quantifiable, desired outcomes in energy efficiency, renewable energy, forestry or other sectors, and that are not expressed in terms of GHG emissions or emission reductions.

#### ■ Conditionality

An “unconditional contribution” is what countries could implement without any conditions and based on their own resources and capabilities. A “conditional contribution” is one that countries would undertake if international means of support are provided, or other conditions are met.

#### ■ NDC preparation informed by Global Stocktake

Does the NDC state that its preparation was informed by the Global Stocktake? If so, a description of that process would be included.

#### ■ Progression from previous submission

How the NDC document says that it addresses Article 4, paragraph 3 of the Paris Agreement, which states that “Each Party’s successive nationally determined contribution will represent a progression beyond the Party’s then current nationally determined contribution and reflect its highest possible ambition, reflecting its common but differentiated responsibilities and respective capabilities, in the light of different national circumstances.”

## Comparison with Previous NDC (2020 NDC Tracker legacy indicators)

See further explanation in [Enhancing NDCs: A Guide to Strengthening National Plans](#)

- **Revised from previous submission**  
Whether the NDC is revised from the previous submission.
- **Strengthened or added GHG target**  
Whether the NDC adopts strengthened or added new GHG target compared to previous submission.
- **Strengthened or added sectoral target**  
Whether the NDC adopts strengthened or new sectoral non-GHG target compared to previous submission.
- **Strengthened or added policies and actions**  
Whether the NDC adopts strengthened or new policies and actions compared to previous submission.
- **Strengthened adaptation**  
Whether the NDC includes enhanced adaptation component compared to previous submission. This can be in forms of updating or adding information on trends, impacts and vulnerabilities, current and near-term planning and action; monitoring, evaluation and learning plans; information on national long-term goals or vision; or information on gaps and barriers.
- **Provided additional information for clarity, transparency, and understanding**  
Whether the NDC provides additional information for clarity, transparency and understanding compared to the previous submission.

## Children and Young People

The following indicators are provided and maintained by UNICEF. The first five are shown under “ACE commitments” category on the map, and rest could be found under “Child and Youth Sensitivity” category on the map.

- **Inclusion of commitments in at least one of the Action for Climate Empowerment framework components**  
The indicator refers to whether the NDC integrates the Action for Climate Empowerment (ACE) framework by including commitments in at least one of its components: education, training, public awareness, public access to information, public participation and international cooperation; even if the NDC doesn't explicitly refer to ACE.
- **Inclusion of child-sensitive commitments on training**  
The indicator refers to whether the training commitments included in the NDC can be considered child/youth-sensitive. This means that it specifically addresses or considers the training of children and young people, families or the sectors and services on which children depend, such as teachers, health professionals or social institutions.
- **Inclusion of child-sensitive commitments on public awareness**  
The indicator refers to whether the public awareness commitments included in the NDC can be considered child/youth-sensitive. This means that it addresses or considers specifically the awareness of children and young people, families or the sectors and services on which children depend, such as teachers, health professionals or social institutions through targeted and systematic communications.
- **Inclusion of child-sensitive commitments on public access to information**  
The indicator refers to whether the public access to information commitments included in the NDC can be considered child- and youth-sensitive. This means that it specifically addresses or consider the capacities and needs of children and young people to access information, including that

information is available in a child-friendly manner in age-appropriate and suitable for the capacities of children of all groups and backgrounds.

- **Inclusion of child-sensitive commitments on inclusion of children and youth in public participation**

The indicator refers to whether the public participation commitments included in the NDC can be considered child- and youth-sensitive. This means that it specifically addresses or considers meaningful participation of children and young people in decision making spaces on the climate agenda.

- **Criteria 1: References - Explicit and meaningful reference to children and youth**

The indicator refers to the existence of explicit and meaningful references to children and youth within the NDC.

- **Criteria 2: Rights-Based - Consider children and youth as rights-holders**

This indicator refers to whether the NDC considers children and youth as rights-holders, through meaningful references to children rights or intergenerational justice and equity.

- **Criteria 3: Holistic and Multisectoral - Addresses the specific risks and vulnerabilities of children**

This indicator refers to whether the NDC addresses the specific risks and vulnerabilities of children by including child-sensitive multi-sectoral commitments.

- **Criteria 4: Inclusive - Identifies children and youth as an important stakeholder**

This indicator refers to whether the NDC identifies children and youth as an important stakeholder and ensures inclusiveness by having integrated children and youth in the consultation process or committing to enhance child and youth participation and empowerment.

- **Identification of children as drivers of change**

This indicator refers to whether children are identified as important stakeholders or agents of change in climate action.

- **Identification of young people as drivers of change**

This indicator refers to whether young people are identified as important stakeholders or agents of change in climate action.

- **Included children in the review and update process**

The indicator refers to whether the participatory process carried out to develop the new or updated NDC specifically included children or adolescents and is specifically mentioned in the NDC document.

- **Included young people in the review and update process**

The indicator refers to whether the participatory process carried out to develop the new or updated NDC specifically included young people and is specifically mentioned in the NDC document.

## MITIGATION

### GHG Target

- **Single or multi-year target**

Whether a target is designed to achieve emission reductions or reductions in intensity by a single target year (Single year target), or over several years of a target period (Multi-year target).

- **Target year**

The year(s) by when or over which the goal is to be achieved. For actions: Target year refers to the date actions comes into effect and date of completion.

- **Target level of emissions**

Expected emissions in the target year or period if the target is achieved.

- **Base year**

Base year refers to a specific year of historical data against which the emissions are compared over time.

- **Emissions level in base year**

Base year emissions refer to emissions and removals in the base year for all gases and sectors included in the target boundary, including out-of-jurisdiction emissions, if relevant.

- **Emissions intensity in base year**

Base year/period emissions intensity refers to emissions intensity (greenhouse gas emissions per unit of another variable, typically economic output, GDP) in the base year or base period.

- **Baseline emissions level in target year**

Projected baseline emissions refer to estimate of GHG emissions or removals associated with a baseline scenario.

- **Economy-wide emissions targets**

How the NDC document says that it addresses Article 4, paragraph 4, which states “Developed country Parties should continue taking the lead by undertaking economy-wide absolute emission reduction targets. Developing country Parties should continue enhancing their mitigation efforts and are encouraged to move over time towards economy-wide emission reduction or limitation targets in the light of different national circumstances.”

- **Description of how NDC contributes towards peaking global emissions**

How the NDC document says that the country’s emissions target will help reach the global effort to peak emissions as soon as possible.

## Scope and Coverage

- **Greenhouse gases covered**

Greenhouse gases covered in the GHG target of the NDC. Seven Kyoto gases refer to Carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulphur hexafluoride (SF<sub>6</sub>), and nitrogen trifluoride (NF<sub>3</sub>), which was added to the ‘basket’ of greenhouse gases covered by the

Kyoto Protocol in the first commitment period per Decision 4/CMP.7.

- **Sectors covered**

Sectors covered in the GHG target of the NDC.

## Overall Assumptions and Methodologies

- **IPCC inventory methodologies to be used to track progress**

IPCC inventory methodologies to be used to track progress in the NDC. For example, 2006 IPCC Guidelines for National Greenhouse Gas Inventories.

- **Global warming potential (GWP) values to be used to track progress**

The Global Warming Potential (GWP) values are used to describe the radiative forcing impact of non-CO<sub>2</sub> greenhouse gases. The AR2, AR4, and AR5 refer to GWP values provided by the IPCC in its 2nd, 4th or 5th Assessment Reports, respectively.

- **Planned use of international market mechanisms**

Whether the Party intends to use or sell/transfer units from international market mechanisms.

- **Baseline scenario targets: Static or dynamic baseline scenario**

Whether the baseline scenario is static (will be fixed over the period) or dynamic (will change over the period) baseline scenario.

- **Baseline scenario targets: Cut-off year for policies included in the baseline scenario, and any significant policies excluded from the baseline scenario**

The cut-off year for policies included in the baseline scenario, and any significant policies excluded from the baseline scenario.

- **Baseline scenario targets: Projection method**

Projection method (e.g., name and type of models).

- **Baseline scenario targets: Emission drivers included and assumptions and data sources for key drivers**

Emission drivers included and assumptions and data sources for key drivers.

- **Baseline scenario targets: For dynamic baseline scenario targets, under what conditions will the baseline be recalculated**

For dynamic baseline scenario targets, under what conditions will the baseline be recalculated and if applicable, any significance threshold used to determine whether changes in emissions drivers are significant enough to warrant recalculation of the scenario.

- **Assumptions and methodological approaches for GHG reduction targets relative to emissions intensity**

For GHG reduction targets relative to emissions intensity, information such as level of output (e.g., GDP) in the base year, projected level of output in the target year/period (and an uncertainty range, if available), and units and data sources used.

- **Assumptions and methodological approaches for NDCs that include actions**

For NDCs that include actions, information such as estimated impact on GHG emissions or non-GHG indicators; methodologies used to estimate impacts on GHG emissions, including the baseline scenario and other assumptions; uncertainty of estimated impacts (estimate or description); information on potential interactions with other policies/actions.

- **Information on the circumstances under which the Party may update the values of the reference indicators**

If the NDC specifies circumstances in which the reference values would be updated, that is included here.

## Accounting for Emissions and Removals from the Land Sector

- **Treatment of land sector**

Treatment of land sector: included as part of the broader target; treated as a separate sectoral target; used to offset emissions within the target boundary; or not included in a target.

- **Coverage of the land sector as compared to total net emissions from the land sector, as a percentage if known**

If the land sector is included, coverage of the land sector (net emissions and removals from land-use activities and/or categories) as compared to total net emissions from the land sector, as a percentage if known.

- **Assumed accounting approach for the land sector (activity-based or land-based)**

The way land sector emissions and removals are accounted for toward the target—from either select land-use categories or select land-use activities. There are two accounting approaches for the land sector: land-based accounting and activity-based accounting.

- **Assumed accounting method for the land sector (net-net, forward-looking baseline, or gross-net)**

Method used to assess emissions and removals within each selected land-use category or activity. Land-use accounting methods include the net-net (accounting relative to base year/period emissions), forward-looking baseline (accounting relative to a projection of net emissions in the target year), and gross-net methods (accounting without reference to base year/period or baseline scenario emissions).

- **Level against which emissions and removals from the land sector are accounted, including policy assumptions and methodologies employed**

If the land sector is included, level against which emissions and removals from the land

sector are accounted, if known, including policy assumptions and methodologies employed.

- **Any assumed use of methodologies to quantify and account for natural disturbances and legacy effects**

Any assumed use of methodologies to quantify and account for natural disturbances and legacy effects.

- **Any other relevant accounting approaches, assumptions or methodologies**

Any other relevant accounting approaches, assumptions, or methodologies, such as relevant IPCC guidance, the Party's forest definition, definition of managed land, list of land-use activities and/or categories included and their definitions, or others.

## International Market Mechanism

- **Limit on the percentage of emission reductions that may be achieved through the use of units from international market mechanisms**

If units are to be used, any limit on the percentage of emission reductions that may be achieved through the use of units from international market mechanisms.

- **Assumed types and years of units to be applied**

If units are to be used, the assumed types and years of units to be applied, if known.

- **Whether and how any units purchased/acquired or sold/transferred abroad will ensure environmental integrity and avoid double counting**

Description of whether and how any units purchased/acquired or sold/transferred abroad will ensure environmental integrity and avoid double counting.

## ADAPTATION

### Overview

- **Adaptation included**

Is there an adaptation section/component in the document?

- **Adaptation revised**

Is the adaptation section/component different from the previous version of the document?

- **Link to Adaptation Communications**

Does the NDC have an indication of its relationship to Adaptation Communications

### Planning and Coordination Process

- **Planning process**

Does the NDC have a description of the adaptation planning process and the NDC development planning process?

- **Planning process for NDC development**

Description of the planning process for NDC development

- **Planning process for adaptation planning**

Description of the planning process for adaptation planning

- **Coordination process**

Is there a description of institutional arrangements to enhance coordination (sectors, other processes, national development, etc.), planning and implementation?

- **Coordination process for adaptation planning**

Description of coordination process for adaptation planning

- **Coordination process for other development**

Description of coordination process with other development or climate change processes

## Climate Change Trends and Impacts

- **Climate change trends**  
Does the NDC include short-, medium-, and long-term trends for changes in the climate?
- **Short term and/or medium term trends**  
Short term and/or medium term trends in climate change
- **Long term trends**  
Long term trends in climate change
- **Climate change impacts**  
Does the NDC include information about the impact of climate change on specific sectors\*/systems?
- **Physical climate change impact**  
Physical climate change impacts on sectors/systems
- **Vulnerabilities and risks**  
Vulnerabilities and risks for specific population groups
- **Climate change included vulnerabilities and risks**  
Climate change included vulnerabilities and risks for different sectors/systems.

## Adaptation Vision and Priorities

- **Adaptation goal/vision**  
Does the NDC articulate a vision or a goal for adaptation?
- **Adaptation plans and policies**  
Does the NDC identify plans and policies at the national or sub-national level relevant for adaptation?
- **National/sectoral level plans and policies**  
Plans and policies relevant for adaptation at national/sectoral level
- **Sub-national level plans and policies**  
Plans and policies relevant for adaptation at sub-national level
- **Adaptation priorities**

Does the NDC identify adaptation priorities?

- **Targets that are not directly linked to adaptation priorities**

Does the NDC identify targets for adaptation that are not directly linked to adaptation priorities?

## Financial Needs

- **Financial needs for implementation**  
Does the NDC identify financial needs for implementing identified adaptation priorities?
- **Unconditional financial needs**  
Total unconditional financial needs for adaptation
- **Conditional financial needs**  
Total conditional financial needs for adaptation
- **Other non-financial support needs**  
Does the NDC identify other non-financial support needs?

## Experiences and Barriers

- **Past commitments**  
Does the NDC provide details on past planning milestones, outputs, and investments made and planned?
- **Past planning milestones**  
Past planning milestones
- **Outputs of adaptation actions**  
Outputs of adaptation actions
- **Adaptation investments made**  
Adaptation investments made
- **Adaptation efforts achieved**  
Does the NDC provide details on adaptation efforts achieved to date for recognition?
- **Cooperation on enhancing adaptation**  
Does the NDC provide details on national, regional, and international cooperation on enhancing adaptation, as appropriate?
- **Barriers**

Does the NDC identify barriers, challenges and gaps related to implementation of adaptation?

- **Lack of climate and risk information, data and knowledge**

Lack of climate and risk information, data and knowledge

- **Lack of access to technology**

Lack of access to technology

- **Lack of capacity (specify what kind)**

Lack of capacity (specify what kind)

- **Lack of financial resources**

Lack of financial resources

- **Other barriers**

Other barriers

- **Good practices and lessons identified**

Does the NDC identify good practices and lessons learned?

- **Good practices identified**

Good practices identified

- **Lessons learned**

Lessons learned for adaptation implementation and planning

## Monitoring and Evaluation

- **Monitoring and evaluation**

Does the NDC describe a monitoring and evaluation approach for adaptation?

- **Institutional setup**

Institutional set up for M&E of adaptation activities

- **Indicators, metrics or criteria**

Indicators, metrics or criteria for M&E

- **Alignment with national M&E systems**

Alignment with other national M&E systems.

## Co-benefits

- **Mitigation co-benefits**

Does the NDC include adaptation actions with mitigation co-benefits?

- **Emissions reduction potential**

Emission reduction potential of adaptation actions identified?

- **Adaptation actions accounted for in mitigation**

Are above adaptation actions accounted for in mitigation section?

- **Economic diversification plans**

Does the NDC include economic diversification plans with links to mitigation and adaptation?

## International Frameworks

- **Other international frameworks and/or conventions**

Does the NDC include references to other international frameworks and/or conventions in the adaptation component?

## Gender and Indigenous People

- **Gender**

Does the NDC include information on how gender has been/will be mainstreamed into planning and implementation?

- **Gender differences**

Addresses gender differences in adaptation needs, opportunities and capacities

- **Equitable participation in decision-making**

Addresses equitable participation and influence by women and men in decision-making

- **Equally distributed adaptation investments**

Recognizes that financial resources and other benefits resulting from adaptation investments should be equally distributed between women and men

- **Gender equality in M&E**

Inclusion of gender equality and women's empowerment in adaptation M&E system, including sex disaggregated data collection?

- **Indigenous and local communities**

Does the NDC include reference to the inclusion of indigenous and local communities and/or their knowledge?

- **Indigenous rights, agency and governance**

Does the NDC support increased indigenous rights, agency, and governance systems?

- **Local knowledge and technologies**

Are local knowledge and technologies that preserve culture and indigenous knowledge systems referenced in the NDC?

- **Rights for indigenous peoples**

Are rights to self-determination, and to free, prior, and informed consent for indigenous peoples preserved in the prioritized adaptation actions?

## Loss and Damage

- **Loss and damage mentioned**

Does the NDC mention loss and damage?

- **Definition of loss and damage**

Definition of loss and damage?

- **Economic loss and damage**

Does the NDC have a description of current and future economic loss and damage?

- **Current economic loss and damage figures**

Current economic loss and damage figure

- **Future economic loss and damage figures**

Future economic loss and damage figures

- **Use of climate change scenario**

Use of a climate change scenario when calculating future economic loss and damage

- **Non-economic loss and damage**

Does the NDC include non-economic loss and damage?

- **Loss and damage initiatives**

Does the NDC include descriptions of on-going and/or prioritized loss and damage initiatives?

- **Slow-onset events**

Information around slow-onset events

- **Risk management approaches**

Information on comprehensive risk management approaches (assessment, reduction, transfer, and retention)

- **Human mobility**

Information on human mobility, including migration, displacement and planned relocation

- **Finance and capacity building**

Information on the provision of finance and capacity building for loss and damage

## Transformative Adaptation

- **Transformative adaptation mentioned**

Does the NDC include references to transformative adaptation?

- **Changing the underlying system**

Does the NDC have adaptation priorities that include a significant expansion in scale with a view of changing the underlying system?

- **Expanding geographic area and people impacted**

Is the expansion over a larger geographic area or an increase in number of people impacted?

- **Expanding beyond incremental adaptation**

Does the expansion activity go beyond incremental adaptation to address changes in the overall system?

- **Innovation**

Does the NDC include adaptation priorities with innovation?

- **Shift in location**

Does the NDC include adaptation priorities that include a shift in location for the adaptation action being implemented?

## Child and Youth Sensitivity

Below lists indicators regarding child and youth sensitivity. The indicators are provided by UNICEF.

- **Inclusion of child-sensitive commitments on education**

The indicator refers to whether the education sector commitments included in the NDC can be considered child-sensitive. This means that it specifically addresses or considers the educational needs of children including commitments to develop or strengthen curricula (environmental and climate education); to improve learning facilities or associated infrastructure that enable learning (based on resilience, safety, sustainability, adaptation and mitigation of climate change and risks); or to develop skills and knowledge in education staff (on climate, environment and DRR).

- **Inclusion of child-sensitive commitments on energy**

The indicator refers to whether the energy commitments included in the NDC can be considered child-sensitive. This means that it addresses or considers access to energy services at the household or community level or in sectors on which children depend (e.g., energy in health or learning facilities, clean cookstoves).

- **Inclusion of child-sensitive commitments on health**

The indicator refers to whether the health sector commitments included in the NDC can be considered child-sensitive. This means that it addresses or considers actions to improve directly the health of children, young people, family or community (for example, reduction of air pollution and short-lived climate pollutants, promoting the use of more fuel-efficient cook stoves, etc.); to improve health care facilities (climate-resilience solutions and environmental sustainability) and systems (including their preparedness, response, and monitoring capacity); to develop responsive primary care that incorporates children's environmental health; or to embed

environmental health in school programmes.

- **Inclusion of child-sensitive commitments on food and nutrition**

The indicator refers to whether the food production commitments included in the NDC can be considered child- and youth-sensitive, including commitments to enhance food and nutritional security of children, young people or families.

- **Inclusion of child-sensitive commitments on social protection**

The indicator refers to whether the social protection commitments included in the NDC can be considered child/youth-sensitive. This means that it specifically addresses or considers commitments to act against poverty, cash transfers in favour of children and young people, implementation of social insurance to children, youth or families (health, productive, etc.), support for child care services and youth employability, development and strengthening of social services personnel, strengthening of integrated delivery systems, development and strengthening of national social protection systems, among others.

- **Inclusion of child-sensitive commitments on disaster risk reduction**

The indicator refers to whether the DRR commitments included in the NDC can be considered child- and youth-sensitive, including the development and strengthening of preparedness, response and resilience capacity of children, youth, families, and the services and systems on which they depend.

- **Inclusion of child-sensitive commitments on water**

The indicator refers to whether the water commitments included in the NDC can be considered child-sensitive. This means that it addresses or considers water resources from a human right to water perspective, including, for example, commitments to ensure water infrastructure, services and

behaviors are sustainable, safe and resilient to climate-related risks; increasing access to drinking water in households, communities, or sectors on which children depend (e.g., health care or learning centers); contributing from WASH systems to building community resilience and increasing capacity to adapt to climate change; or implementing efforts to monitor and manage drinking water resources; among others.

- **Inclusion of child-sensitive commitments on sanitation**

The indicator refers to whether the sanitation commitments included in the NDC can be considered child-sensitive. This means that it addresses or considers water resources from a human right to water perspective, including, for example, commitments to ensure sanitation infrastructure, services and behaviors are sustainable, safe and resilient to climate-related risks; increasing access to proper sanitation solutions in households, communities, or sectors on which children depend (e.g., health care or learning centers); or contributing from WASH systems to building community resilience and increasing capacity to adapt to climate change; among others.

- **Identification of children as a vulnerable group**

The indicator refers to whether children are identified specifically as a vulnerable group to the impacts of climate change.

- **Identification of young people as a vulnerable group**

The indicator refers to whether young people are identified specifically as a vulnerable group to the impacts of climate change.

## SECTORAL MITIGATION

Below lists all sector and subsectors used for NDC sectoral mitigation measure analysis.

### Economy-wide

- **Economy-wide: General**

- **Economy-wide: Other**

*Gas*

- **Methane**

- **N<sub>2</sub>O**

- **F-gases**

- **SLCPs**

- **Black carbon**

*Other*

- **Carbon pricing**

- **Climate planning**

- **Monitoring, reporting, and verification**

- **Procurement**

- **Training/capacity-building**

### Agriculture

- **Agriculture: General**

- **Agriculture: Other**

- **Agricultural waste**

- **Fisheries and aquaculture**

- **Livestock**

- **Soil carbon sequestration**

- **Soil fertilization emissions**

- **Rice cultivation**

- **Agroforestry**

- **Diets**

- **Reducing food loss and waste**

- **Agricultural productivity**

### LULUCF

- **LULUCF: General**

- **LULUCF: Other**

*Action*

- **Restoration**

- **Conservation**

- **Management**

*Biome*

- **Forests**
- **Grasslands**
- **Peatlands**
- **Wetlands**
- **Mangroves**

*Other*

- **Agroforestry**
- **REDD+**
- **Nature-based solutions**

## Energy

- **Energy: General**
- **Energy: Other**
  - Renewable Energy*
- **Renewable Energy: General**
- **Renewable Energy: Other**
- **Renewable Energy: Biofuels**
- **Renewable Energy: Geothermal**
- **Renewable Energy: Hydro**
- **Renewable Energy: Ocean**
- **Renewable Energy: Off-Grid**
- **Renewable Energy: Solar**
- **Renewable Energy: Waste-to-Energy**
- **Renewable Energy: Wind**
  - Fossil Fuels*
- **Fossil Fuels: General**
- **Fossil Fuels: Other**
- **Fossil Fuels: Gas**
- **Fossil Fuels: Gas flaring**
- **Fossil Fuels: Crude oil and petroleum products**
- **Fossil Fuels: Coal and coal products**
- **Fossil Fuels: New construction**
- **Fossil Fuels: Phase out/down**
- **Fossil Fuels: Extraction**

- **Fossil Fuels: Distribution**
- **Fossil Fuels: Power generation**
  - Transmission & distribution*
- **Mini-grids**
- **Grid improvement**
- **Grid construction/expansion**
- **T&D: General**
  - End use*
- **End Use: Buildings**
- **End Use: Industries**
- **End Use: Transport**
- **End Use: Other**

*Other*

- **Energy efficiency**
- **CCS**
- **Fuel switching**
- **Energy storage**
- **Hydrogen**
- **Nuclear**

## Buildings

- **Buildings: General**
- **Buildings: Other**
  - Existing vs. New*
- **Existing buildings**
- **New buildings**
  - Use*
- **Residential**
- **Commercial**
- **Industrial**
  - End-use*
- **End-use: Other**
- **End-use: Heating**
- **End-use: Cooling**
- **End-use: Cooking**
- **End-use: Appliances**

- **End-use: Lighting**
- **End-use: Refrigeration**
- **End-use: Building envelope**
  - Other*
- **Building materials**
- **Building codes**
- **Retrofitting**
- **Energy efficiency**
- **Electrification**

## Transport

- **Transport: General**
- **Transport: Other**
  - Action*
  - **Avoid: Land-use planning/TOD**
  - **Avoid: Transport demand management**
  - **Shift: Public transport**
  - **Shift: Walking/cycling**
  - **Improve: Electrification**
  - **Improve: Fuel efficiency**
  - **Improve: Fuels**
    - Purpose*
    - **Passenger**
    - **Freight**
      - Mode*
      - **Road**
      - **Rail**
      - **Air**
      - **Maritime**
      - **Inland waterways**
        - Other*
  - **Transport infrastructure**

## Industries

- **Industries: General**
- **Industries: Other**

- **Cement and concrete**
- **Chemicals**
- **Iron and steel**
- **Other metals**
- **Paper**
- **Industrial F-gases**
- **Hydrogen**
- **Industrial efficiency**
- **Petroleum refining**

## Waste

- **Waste: General**
- **Waste: Other**
- **Recycling, reuse, reduce**
- **Solid waste**
- **Waste-to-Energy**
- **Wastewater**