

Possible Contribution of JCM Projects to SDGs

Global Environment Centre Foundation(GEC)



Possible Contribution of Energy-efficient Equipment Projects to SDGs

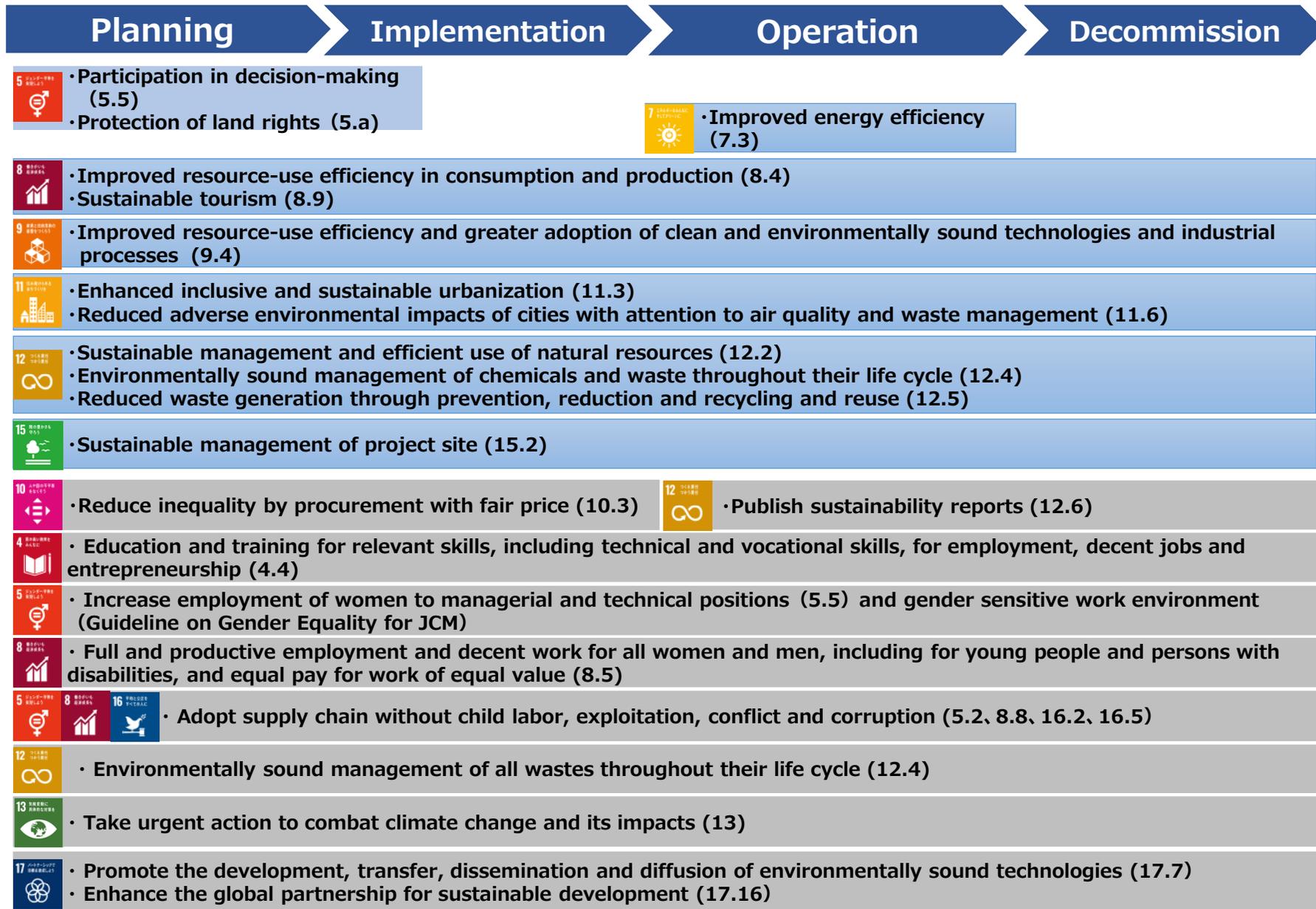
Reduce GHG emission by introducing more efficient equipment. Examples include;

-  Air conditioners
-  Heaters
-  Medical equipment
-  Water treatment equipment
-  Boilers
-  Other high-efficient equipment

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-  Goals to which energy-efficiency equipment can contribute
-  Common goals to which JCM Projects can contribute

※The recommended examples with high potential to contribute through implementing JCM project. These goals are not limited nor mandatory to contribute.



Possible Contribution of Renewable Energy Projects to SDGs

GHG emission reduction can be implemented through renewable energy generation by replacing electric power derived from fossil fuel combustion



Photovoltaic Generation



Hydraulic Power Generation



Wind Power Generation



Geothermal Generation



Biomass· Biogas Generation

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- Goal to which Renewable Energy Project can contribute
- Common Goal to which JCM Projects can contribute

※The listed goals are no more than recommended examples with high potential to contribute through implementing JCM project. These goals are not limited nor mandatory to contribute.

Planning

Implementation

Operation

Decommission



- Ensure women's participation such as public hearing (5.5)
- Equal rights to ownership and compensation of land acquisition (5.a)



- Enhance inclusive and sustainable urbanization (11.3)
- Reduce air pollution(11.6)



- Increase resource-use efficiency and greater adoption of clean and environmentally sound technologies (9.1)
- Increase resource-use efficiency and greater adoption of clean and environmentally sound technologies and industrial processes (9.4)



- Sustainable management and efficient use of natural resources (12.2)
- Environmentally sound management of all wastes throughout their life cycle (12.4)
- Reduce waste generation through prevention, reduction, recycling and reuse (12.5)



- Sustainable management of all types of forests (15.2)



- Reduce inequality by procurement with fair price (10.3)



- Publish sustainability reports (12.6)



- Education and training for relevant skills, including technical and vocational skills, for employment, decent jobs and entrepreneurship (4.4)



- Increase employment of women to managerial and technical positions (5.5) and gender sensitive work environment (Guideline on Gender Equality for JCM)



- Full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value. (8.5)



- Adopt supply chain without child labor, exploitation, conflict and corruption. (5.2, 8.8, 16.2, 16.5)



- Environmentally sound management of all wastes throughout their life cycle (12.4)



- Take urgent action to combat climate change and its impacts. (13)



- Promote the development, transfer, dissemination and diffusion of environmentally sound technologies (17.7)
- Enhance the global partnership for sustainable development. (17.16)

Possible Contribution of Effective Use of Energy Projects to SDGs



GHG emission reduction can be implemented through recovery and reuse of heat energy from production facilities and power



Waste Heat Recovery System



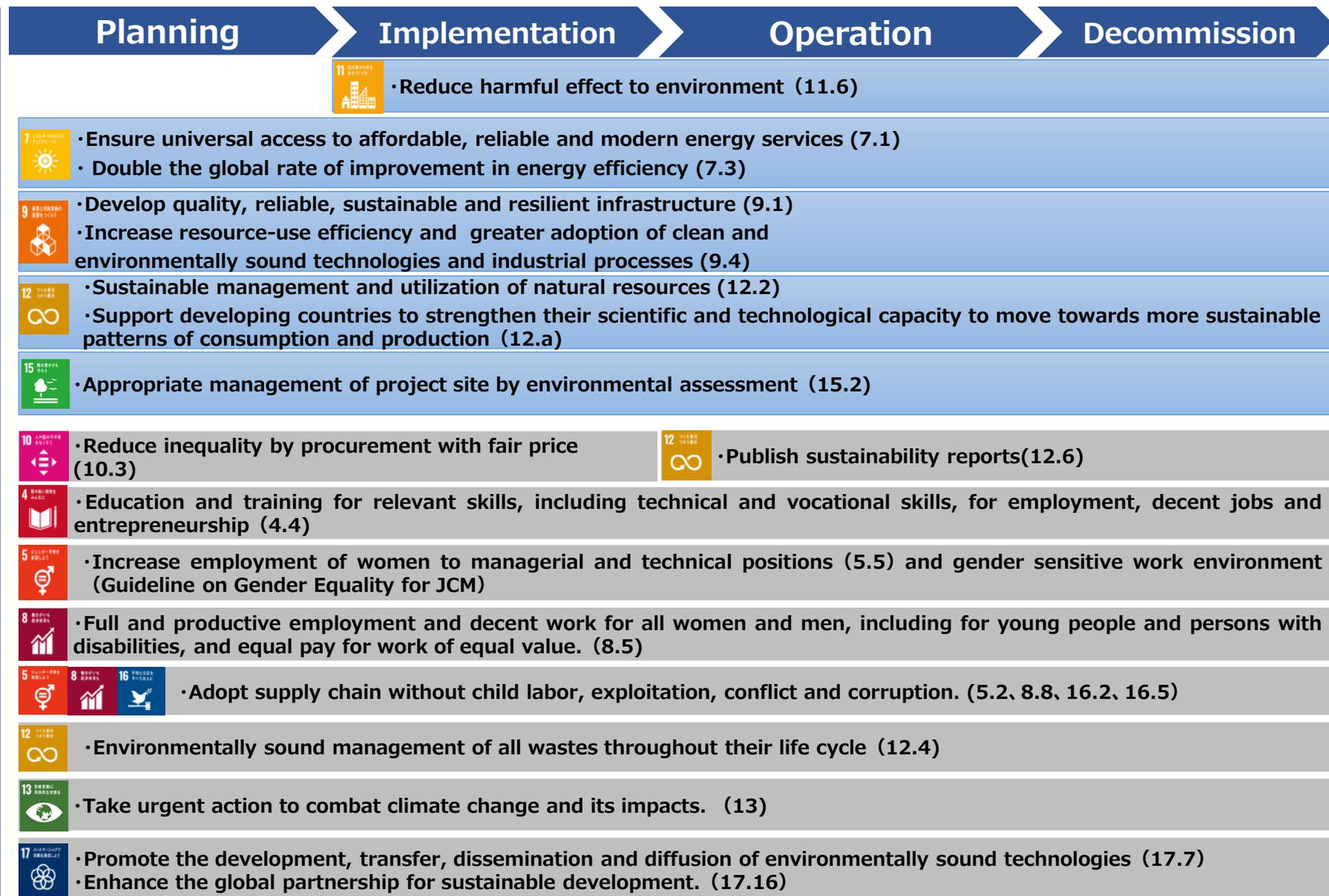
Gas Cogeneration

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 Goal to which Renewable Energy Project can contribute

 Common Goal to which JCM Projects can contribute

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Possible Contribution of Waste-to-Energy Projects to SDGs

Reduce GHG emission by utilizing thermal energy from combustion of waste to generate electricity.



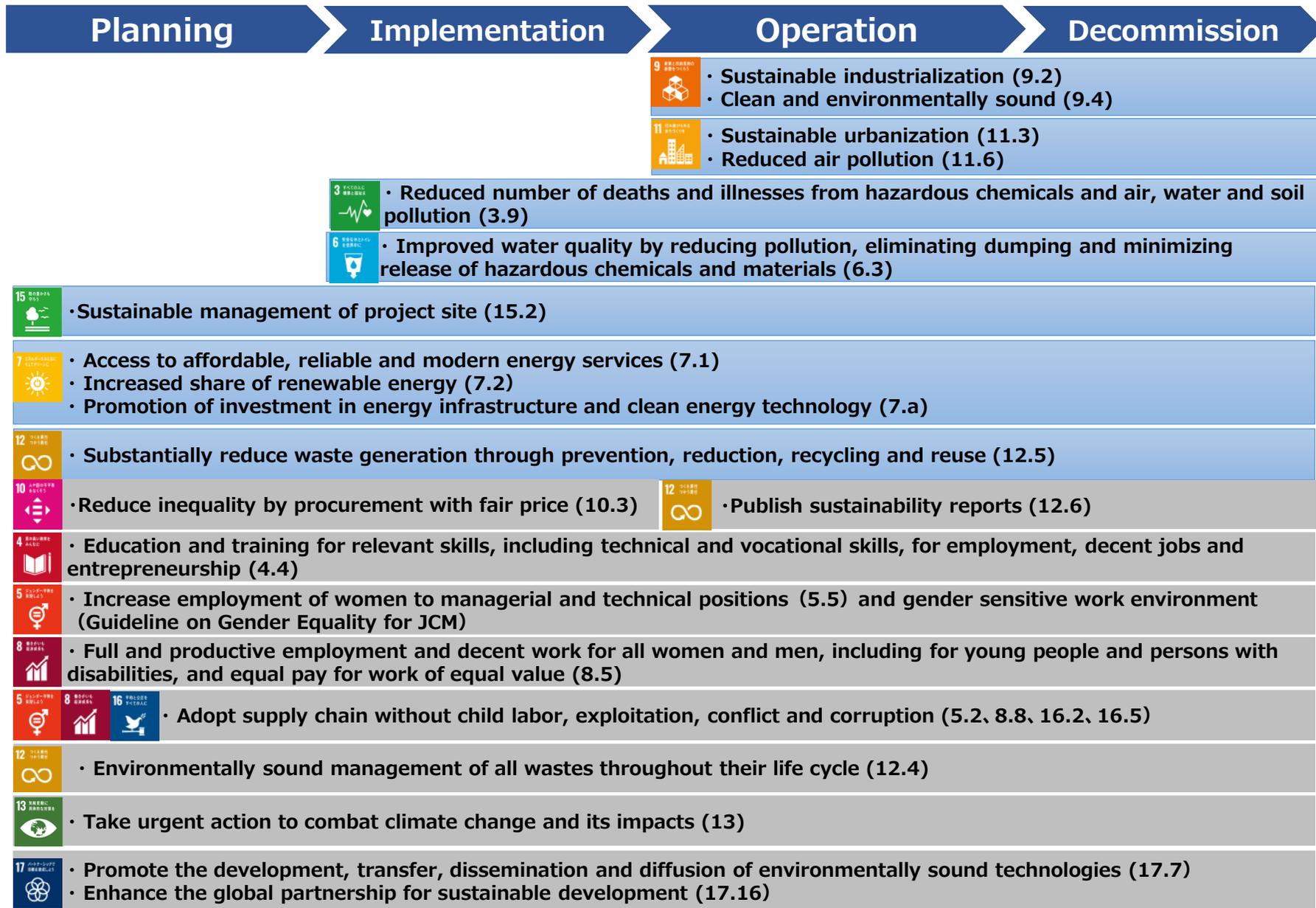
Waste-to-energy facilities

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 Goals to which energy-efficiency equipment can contribute

 Common goals to which JCM Projects can contribute

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Possible Contribution of Transport Projects to SDGs

GHG emission reduction can be implemented in though trucks with digital tachograph system to improve energy efficiency, fuel conversion of autos, freshness preservation reefer container

 Ecological drive

 Fuel conversion

 Modal shift

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 Goal to which Renewable Energy Project can contribute

 Common Goal to which JCM Projects can contribute

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Planning

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Operation

Decommission

 •Halt deforestation (15.2)
• Take urgent and significant action to reduce the degradation of natural habitats, halt the loss of biodiversity (15.5)

 • Sustainable management and efficient use of natural resources (12.2)
• Reduce food losses (12.3)
• Reduce waste generation through prevention, reduction, recycling and reuse (12.5)

 • Reduce inequality by procurement with fair price (10.3)

 •Education and training for relevant skills, including technical and vocational skills, for employment, decent jobs and entrepreneurship (4.4)

 •Increase employment of women to managerial and technical positions (5.5) and gender sensitive work environment (Guideline on Gender Equality for JCM)

 •Full and productive employment and decent work for all women and men, and equal pay for work of equal value. (8.5)

   •Adopt supply chain without child labor, exploitation, conflict and corruption. (5.2, 8.8, 16.2, 16.5)

 • Achieve the environmentally sound management of chemicals and all wastes throughout their life cycle (12.4)

 •Take urgent action to combat climate change and its impacts. (13)

 •Promote the development, transfer, dissemination and diffusion of environmentally sound technologies (17.7)
•Enhance the Global Partnership for Sustainable Development, complemented by multi-stakeholder partnerships that mobilize and share knowledge, expertise, technology and financial resources (17.16)

 •End hunger and ensure access by all people to safe, nutritious and sufficient food all year round(2.1) • double the agricultural productivity and incomes of small-scale food producers (2.3)

 •Halve the number of global deaths and injuries from road traffic accidents (3.6) •substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination (3.9)

 • Improve the global rate in energy efficiency (7.3)

 •Improve global resource efficiency in consumption and production (8.4)
• Devise and implement policies to promote sustainable tourism (8.9)

 •Develop quality, reliable, sustainable and resilient infrastructure (9.1)
•Increase resource-use efficiency and greater adoption of clean and environmentally sound technologies and industrial processes (9.4)

 •Provide access to sustainable transport systems (11.2) •Reduce the adverse per capita environmental impact of cities, including by paying special attention to air quality and municipal and other waste management (11.6)

 •Publish sustainability reports(12.6)