International Platform on Sustainable Finance

Common Ground Taxonomy Multi-Jurisdiction Activity Tables November 2024

Multi-jurisdictionCommonTaxonomy (CGT) Methodology



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<u>Disclaimer</u>

The present analysis represents a technical work based on comparison between the EU, China, and Singapore-Asia taxonomies and is not legally binding for IPSF member jurisdictions. The result can be used to enhance the interoperability of taxonomies, whilst it does not create either a 'common' or single standard that is mandatory for IPSF member jurisdictions.

Scope of analysis

Objectives and screening criteria

The European Union¹

This analysis of Multi-jurisdiction CGT covers only the climate change mitigation objective of the EU Taxonomy and corresponding substantial contribution technical screening criteria for the activities in scope of the Multi-jurisdiction CGT. The analysis of Multi-jurisdiction CGT looked in detail at each of the technical screening criteria for each activity and, where relevant, considered other cross-referenced EU regulation.

It does not cover the Do No Significant Harm and the Minimum Safeguards components of the EU Taxonomy.

China²

The China taxonomy defines the economic activities that are supportive of environment improvement, climate change mitigation and more efficient resource utilization objectives, and mainly include the financing, operation and risk management for projects in areas such as environmental protection, energy savings, clean energy, green transportation, and green buildings as required in the Guidelines for Establishing the Green Financial System³. The China taxonomy does not map each activity to a single specific objective like in the EU or Singapore Taxonomies. To facilitate the technical analysis the activities serving the climate change mitigation objective of the China taxonomy were extracted and analysed for the multijurisdiction mapping and comparison exercise.

The China Taxonomy has four levels of granularity which includes a description for each of the requirements listed in the explanatory notes of the Green Industry Guiding Catalogue (2019 Edition) and the corresponding "instructions/conditions" of the China Taxonomy

¹ https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A02021R2139-20240101

² http://www.pbc.gov.cn/goutongjiaoliu/113456/113469/4342400/2021091617180089879.pdf

³ http://www.pbc.gov.cn/en/3688110/3688172/4048320/3712404/index.html

(2021). The relevant regulations, codes and standards referred in the China Taxonomy were analysed on a best-efforts basis to understand the comparability with criteria/thresholds in the other two taxonomies.

The technical criteria comparison does not dive into the compliance requirements referring to China's national safety, environmental protection and quality regulations and standards, which reflect the DNSH Principles and the Minimum Safeguards component of the China Taxonomy in market practice.

Singapore⁴

This Multi-jurisdiction CGT analysis covers the climate mitigation objective of the Singapore-Asia Taxonomy for Sustainable Finance (SAT). The SAT was developed by the Green Finance Industry Taskforce (GFIT) convened by the Monetary Authority of Singapore (MAS), building upon extensive process of public consultations. The SAT sets out detailed thresholds and criteria for defining green and transition activities that contribute to climate change mitigation across eight focus sectors. The analysis of Multi-jurisdiction CGT looked in detail at each of the technical screening criteria for each activity, and where relevant, considered other domestic and international standards and certifications.

It does not cover the Do No Significant Harm and Minimum Safeguards components of the SAT.

⁴ https://www.mas.gov.sg/-/media/mas-media-library/development/sustainable-finance/singaporeasia-taxonomy-updated.pdf

Section mapping Mapping against ISIC as a neutral code

The International Standard Industrial Classification of All Economic Activities (ISIC) is the international reference classification. A majority of countries around the world have used ISIC as their national activity classification or derived from ISIC.

The statistical classification of economic activities used in the EU called NACE (Nomenclature statistique des Activités économiques dans la Communauté européenne), is derived from ISIC (the United Nations' International Standard Industrial Classification) of all Economic Activities. The Industrial Classification for National Economic Activities (ICNEA 2017) of China is also derived from the UN ISIC Rev.4. with additional details at lower levels. To enable interoperability with other taxonomies, the SAT's classification of activities was also derived from the ISIC.

The reference to a common classification system allowed the comparison of taxonomies based on a neutral code rather than taking one taxonomy to compare the other. It also helped to group activities in a neutral way when there were differences between the scope of the activities in the taxonomies. For example, many construction activities could be classified within the construction headlines sector or within the individual sectors that they relate to (e.g. construction of waste treatment facilities) – wherever possible, it is referred to ISIC for this grouping.

While useful, in many sectors and activities, ISIC (Rev 4.) is not sufficiently granular to capture all the detailed mapping and comparison that is required. This is particularly the case for emerging potentially scalable technologies, such as hydrogen or carbon capture, utilisation and storage (CCUS). Industrial activities are intended to cover economic activities rather than environmental objectives which means that, for example, "Electric power generation, transmission and distribution" is the most granular level of detail available within ISIC for electricity generation but the type of fuel that is used is not covered.

For this reason, the mapping, while following ISIC at the Section and Division levels, also goes beyond ISIC as depicted in the image below.

There were also some areas like Carbon Capture that do not fit into an ISIC classification framework. These were put under 'Other' at the end.

ISIC Section	ISIC Division	Group	Class	Beyond ISIC
D, Electricity,	35, Electricity, gas,	351, Electric power	3510,Electric power	Electricity
gas, steam and	steam and air	generation,	generation,	generation from
air conditioning	conditioning supply	transmission and	transmission and	ocean energy
supply		distribution	distribution	technologies
				Electricity
				generation from
				hydropower
				Electricity
				generation using
				solar
				photovoltaic
				technology
A, Agriculture,	02,Forestry and	021,Silviculture and	0210,Silviculture and	Afforestation
forestry and	logging	other forestry	other forestry	Forest
fishing		activities	activities	Management
				Rehabilitation
				and restoration
				of forests

Updated scenario analysis to enable inclusion of more jurisdiction

Description of approach: what is a scenario analysis methodology and why was it used?

Once the mapping was complete, activities that were present in at least two taxonomies were selected to be included in the Multi-jurisdiction CGT. Subsequently the detailed description of the scope and technical screening criteria for each of the activities were compared to ascribe each line with a scenario based on their characteristics in terms of comparability:

- For activities with same or interoperable metrics, the comparability analysis focused on level of stringency of outlined criteria
- For activities for which metrics differed, the comparability analysis focused on identification of commonalities in requirements of outlined criteria

This methodology allowed for analysis without requiring any taxonomies to change and without requiring any taxonomies to accept other standards or laws as equivalent to their own criteria.

This was a core underpinning of the CGT – that the common ground is based on what currently exists rather than how further common ground might be found if small changes were made to any of the taxonomies.

Multi-jurisdiction common ground taxonomy scenario description

Scenario 1: Criteria across all taxonomies are equally stringent

- Scenario 1 was assigned to activities in which the scope and associated criteria are all fully aligned.
- In this case, the criteria of the given Multi-jurisdiction CGT activity are aligned with all analysed taxonomies.
- Scenario 1 is only applicable to cases where all analysed taxonomies have a corresponding activity

Example: The activity "Electricity generation from wind power" has same criteria across all 3 taxonomies.

Scenario 2: Criteria in one of the taxonomies are the most stringent and/or detailed

- Scenario 2 was assigned to activities in which the alignment in scope has been identified but where the screening criteria of one of the taxonomies (Taxonomy X) were either narrower in scope or the most stringent and/or more detailed than the other taxonomies.
- In this case, the criteria of Taxonomy X will be the substantial contribution criteria of the Multi-jurisdiction CGT.
- Note, if one of the analysed taxonomies does not entail the described activity, the

criteria stringency analysis only takes into account taxonomies in which the given activity exists.

Example: For the activity, "Electricity generation using solar PV", China taxonomy requires that the technology used for solar power generation meets certain efficiency thresholds.

On the other hand, the EU and Singapore taxonomies define all activities related to power generation from solar PV technology as directly eligible.

Thus, the criteria in China taxonomy is the most stringent and will be the substantial contribution criteria of the Multi-jurisdiction CGT.

Scenario 3: Two or more taxonomies have the same criteria, which are more stringent or detailed than the remaining ones

- Scenario 3 was assigned to activities in which the alignment in scope has been identified but where the screening criteria of more than one of the taxonomies (Taxonomy X and Taxonomy Y) were equally either narrower in scope or more stringent and/or detailed than the remaining taxonomies.
- In this case, the criteria of Taxonomy X and Y will be the substantial contribution criteria of the Multi-jurisdiction CGT.
- Note, if one of the analysed taxonomies does not entail the described activity, the criteria stringency analysis only takes into account taxonomies in which the given activity exists.

Example: For the activity, "Electricity generation from hydropower", both the EU and Singapore taxonomies have the same criteria, while criteria in China taxonomy do not specify detailed requirements. Thus, the criteria in EU and Singapore taxonomy are the most stringent and will be the substantial contribution criteria of the Multi-jurisdiction CGT.

Scenario 4: Identifiable overlap pursuant to the narrative description of the green activities; however, the stringency of criteria is not comparable across taxonomies due to varied technical metrics or technological details

- Scenario 4 was assigned to activities in which the overlap in scope has been identified, however the stringency of the criteria across the taxonomies is not comparable across taxonomies.
- Given that it was challenging to establish substantial contribution criteria, it is agreed that the described activity would have to meet criteria of at least one of the analysed taxonomies.
- Where possible, a mapping of the common requirements of at least two analysed taxonomies is provided as reference.
- Note, if one of the analysed taxonomies does not entail the described activity, the criteria stringency analysis only takes into account taxonomies in which the given activity exists.

Example: For the activity "Electricity generation from bio-energy" most of the criteria in all of the taxonomies are qualitative and refer either to regulations or guidelines as well as standards. While it is currently challenging to compare stringency of the technical criteria across taxonomies, a mapping of the common requirements across the analysed taxonomies is provided.

Scenario 5: Lack of commonality

- Scenario 5 was assigned to activities for which it was difficult to define and map the commonality in scope across taxonomies.
- Scenario 5 is excluded from the multi-jurisdictional CGT.
- Note, if one of the analysed taxonomies does not entail the described activity, the criteria stringency analysis only takes into account taxonomies in which the given activity exists.

CGT Activity Cards Templates

Template of the activity card (Scenario 1-3)

Numbe	er and Activity Name			
1.	Scope of activity			
2.	Scenario analysis for Multi-jurisdiction CGT			
3.	Corresponding activities	China taxonomy:	EU taxonomy:	SAT:
4.	Multi-jurisdiction CGT substantial contribution criteria			
5.	Additional notes			

Glossary of the terminology used in the activity card (Scenario 1-3):

Terminology of the sections in the Multi-jurisdiction CGT Activity card:

- 1. Number and activity name:
 - This section labels the activity
- 2. Description of the scope of activity:
 - This section presents the scope of activity for which the Multi-jurisdiction CGT substantial contribution criteria are provided, it is identified based on the comparison of the description of corresponding activities in each of the analysed taxonomies

- 3. Scenario analysis for Multi-jurisdiction CGT:
 - This section outlies under which scenario the given activity has been classified as well as provides justification for its selection
- 4. Corresponding activities
 - This section identifies corresponding activities in the analysed taxonomies
- 5. Multi-jurisdiction CGT substantial contribution criteria:
 - This terminology is used when the common ground comparison is equivalent to Scenario 1, 2 and 3, i.e. the criteria can be clearly compared across all selected taxonomies, and the stringency of the criteria can be assessed.
 - This section refers to the criteria identified based on highest level of stringency and international interoperability.
- 6. Additional notes (where applicable):
 - This section provides additional notes related to the analysed criteria e.g. recommended methodologies

Template of the activity card (Scenario 4)

Number and Activity Name			
1. Scope of activity			
2. Scenario analysis for Multi-jurisdiction CGT			
3. Corresponding activities	China taxonomy:	EU taxonomy:	SAT:
4. Multi-jurisdiction CGT substantial contribution criteria			
5. Common requirements across analysed taxonomies			
6. Additional notes			

Glossary of the terminology used in the activity card (Scenario 4):

Terminology of the sections in the Multi-jurisdiction CGT Activity card:

- 1. Number and activity name:
 - This section labels the activity
- 2. Description of the scope of activity:
 - This section presents the scope of activity for which the Multi-jurisdiction CGT substantial contribution criteria are provided, it is identified based on the comparison of the description of corresponding activities in each of the analysed taxonomies
- 3. Scenario analysis for Multi-jurisdiction CGT:
 - This section outlies under which scenario the given activity has been classified as well as provides justification for its selection
- 4. Corresponding activities
 - This section identifies corresponding activities in the analysed taxonomies
- 5. Multi-jurisdiction CGT substantial contribution criteria:
 - While for Scenario 1-3 this section refers to the criteria identified based on highest level of stringency and international interoperability, in scenario 4 substantial contribution criteria are met if the activity meets criteria of at least one of the analysed taxonomies.
- 6. Common requirements across analysed taxonomies
 - This terminology is used when the common ground comparison is equivalent to Scenario 4, i.e. it is currently challenging to compare stringency of the substantial contribution criteria across taxonomies,
 - This section provides mapping of the common requirements across substantial contribution criteria of the analysed taxonomies
- 7. Additional notes (where applicable):
 - This section provides additional notes related to the analysed criteria e.g. recommended methodologies

A: Agriculture, forestry and fishing

ISIC Mapping

ISIC Section	ISIC Division	Common Ground Taxonomy category
A. Agriculture, forestry and	1. Crop and animal production, hunting and related	A1. Crop and Animal Production
fishing	service activities	
	2. Forestry and Logging	A2. Forestry and Logging

A1. Crop and Animal Production

Number and Activity	A1.1 Perennial and non-perennial crops		
Name			
Scope of activity	Perennial crops (Palm (oil), coffee, cocoa, tea	, rubber trees, nuts, fruits);	
	Non-perennial crops (rice, wheat, soybeans, o	corn, cassava, sugar cane, sugar beet, tobacco,	vegetables) includes conventional, protected
	and hydroponic systems		
Scenario analysis for	Scenario 4 – identifiable overlap; stringency c	of criteria is not comparable across taxonomies	;
Multi-jurisdiction	Justification of the scenario selection: while C	China relies heavily on national regulation, SAT	refers to certification schemes, which pose
CGT	challenge for direct comparison. There is no E	U corresponding activity.	
Corresponding	China taxonomy:	SAT:	EU taxonomy:
activities	4.1.3.1 Green Organic Agriculture	10.1. Perennial and non-perennial crops	Activity is not in EU taxonomy
	4.1.2.1 Control and Prevention of		
	Crop Diseases and Insect Pests		
Multi-jurisdiction CGT	Activity meets criteria of at least one of the a	nalysed taxonomies.	N/A
substantial			
contribution criteria			
Common	Following activities have been identified by b	oth taxonomies as eligible	N/A
requirements across	Organic farming,		
analysed taxonomies	Use of organic and biofertilisers; or		
	 Use of physical and biocontrol of pathogens 	s, pests and weeds;	
	 Use of superior inputs which enables produ 	ction with less resources e.g. superior seeds	
	obtained through plant breeding		

Number and Activity	A1.2 Animal Production			
Name				
Scope of activity	Animal production (bovine cattle and poultry	nimal production (bovine cattle and poultry)		
Scenario analysis for	Scenario 4 – identifiable overlap; stringency c	of criteria is not comparable across taxonomies	,	
Multi-jurisdiction	Justification of the scenario selection: Both th	e China and SAT criteria are referred to differe	nt standards and certifications for	
CGT	compliance and a comparison of them is not	possible. There is no EU corresponding activity		
Corresponding	China taxonomy:	SAT:	EU taxonomy:	
activities	4.1.3.2 Green Animal Husbandry	10.2. Animal production	Activity is not in EU taxonomy	
Multi-jurisdiction CGT	Activity meets criteria of at least one of the a	nalysed taxonomies.	N/A	
substantial				
contribution criteria				
Common	Following activities have been identified by both taxonomies as eligible:		N/A	
requirements across	Bio-digesters (Bio-septic tank)			
analysed taxonomies				

A2. Forestry and Logging

	A2.1 Afforestation			
Scope of activity	Establishment of forest through planting, deliberate seeding or natural regeneration on land that, until then, was under a different land			
	use or not used.			
	the United Nations ((TAO)) definition of afform	a use from non-forest to forest, in accordance w	he ferest definition as set out in patienal law	
	or where not available, is in accordance with	the EAO definition of forest. Afforestation may	rever past afferentation as long as it takes	
	or where not available, is in accordance with the FAO definition of forest. Afforestation may cover past afforestation as long as it takes place in the period between the planting of the trees and the time when the land use is recognized as a forest.			
Scenario analysis for	Scenario 4 – identifiable overlap; stringency o	of criteria is not comparable across taxonomies	·	
Multi-jurisdiction	Justification of the scenario selection: Both th	ne EU and SAT criteria are more stringent than	China taxonomy, as they provide detailed	
CGT	processes, while China taxonomy includes the	e enabling types of projects for which limited c	riteria details are provided.	
Corresponding	China taxonomy:	EU taxonomy:	SAT:	
activities	4.2.2.1 Forest Resources Cultivation	1.1 Afforestation	5.2. Forestry plantation	
	Industry			
	4.2.2.3 Forest Carbon Sequestration, Tree			
	and Grass Planting, Forestry Seedlings, and			
	Ornamental Flowers			
	4.2.1.5 Projects of turning farmlands back			
	to forests or grasslands and restoring			
	grazing lands to grasslands 4.2.1.8			
	Comprehensive treatment of key ecological			
	areas			
	4.2.1.10 Comprehensive treatment of			
	desertification, rocky desertification and			
	soil erosion			
Multi-jurisdiction CGT	Activity meets criteria of at least one of the a	nalysed taxonomies.		
substantial				
contribution criteria				
Common	The SAT taxonomy criteria are benchmarked	against numerous private and public certification	on schemes, each aligning with EU criteria to	
requirements across	varying degrees. China's taxonomy does not i	nclude details with this level of granularity.		
analysed taxonomies				

Key alignment points include: detailed description of the area based on its classification in the land registry; clearly defined management goals and major constraints; comprehensive strategies and activities planned to achieve these goals, including anticipated operations throughout the entire forest cycle; and thorough assessment of forest-related risks, such as forest fires, pest infestations, and disease outbreaks.

These alignments aim to prevent, reduce, and control risks, ensuring robust protection and adaptation measures against residual threats.

Number and Activity Name	A2.2 Rehabilitation and restoration of forest	s, including reforestation and natural forest re	egeneration after an extreme event
Scope of activity	Rehabilitation and restoration of forests as defined by national law, including reforestation and natural forest regeneration after an extreme event. The economic activities in this category imply no change of land use and occurs on degraded land matching the forest definition as set out in national law, or where not available, in accordance with the FAO definition of forest.		
Scenario analysis for Multi-jurisdiction CGT	Scenario 4 – identifiable overlap; stringency of criteria is not comparable across taxonomies; Justification of the scenario selection: Both the EU and SAT criteria are more stringent than China taxonomy, as they provide detailed processes, China taxonomy criteria have different approach, focusing on enabling types of projects for which criteria they offer limited		
Corresponding activities	 China taxonomy: 4.2.1.1 Protection of Natural Forest Resources 4.2.1.5 Projects of turning farmlands back to forests or grasslands and restoring grazing lands to grasslands □ 4.2.1.7 Protection and restoration of national ecological security barriers 	EU taxonomy: 1.2 Rehabilitation and restoration of forests, including reforestation and natural forest regeneration after an extreme event	SAT: 5.3. Conservation, restoration, and maintenance of natural/pristine forests
Multi-jurisdiction CGT substantial contribution criteria	Activity meets criteria of at least one of the analysed taxonomies.		
Common requirements across analysed taxonomies	The SAT taxonomy criteria are benchmarked against numerous private and public certification schemes, each aligning with EU criteria to varying degrees. China's taxonomy does not include details with this level of granularity. Key alignment points include: detailed description of the area based on its classification in the land registry; clearly defined management goals and major constraints; comprehensive strategies and activities planned to achieve these goals, including anticipated operations throughout the entire forest cycle; and thorough assessment of forest-related risks, such as forest fires, pest infestations, and disease outbreaks. These alignments aim to prevent, reduce, and control risks, ensuring robust protection and adaptation measures against residual threats.		

Number and Activity	A2.3 Forest management			
Name				
Scope of activity	Forest management as defined by national law. Where national law does not contain such a definition, forest management corresponds to any economic activity resulting from a system applicable to a forest that influences the ecological economic or social functions of the			
	forest. Forest management assumes no chan	ge in land use and occurs on land matching the	definition of forest as set out in national law,	
	or where not available, in accordance with th	e FAO definition of forest		
Scenario analysis for	Scenario 4 – identifiable overlap; stringency c	of criteria is not comparable across taxonomies	;	
Multi-jurisdiction	Justification of the scenario selection: Both th	ne EU and SAT criteria are more stringent than	China taxonomy, as they provide detailed	
CGT	processes, while China taxonomy includes the	e enabling types of projects for which limited c	riteria details are provided.	
Corresponding	China taxonomy:	EU taxonomy:	SAT:	
activities	4.2.1.1 Protection of natural forest	1.3 Forest management	5.1. Sustainable forest management	
	resources			
	4.2.2.1 Forest Resources Cultivation			
	Industry			
	4.2.2.2 Under-forest economy of planting			
	and animal farming industry			
Multi-jurisdiction CGT	Activity meets criteria of at least one of the analysed taxonomies.			
substantial				
contribution criteria				
Common	The SAT taxonomy criteria are benchmarked against numerous private and public certification schemes, each aligning with EU criteria to			
requirements across	varying degrees. China's taxonomy does not include details with this level of granularity.			
analysed taxonomies	Key alignment points include: detailed description of the area based on its classification in the land registry; clearly defined management			
	goals and major constraints; comprehensive s	strategies and activities planned to achieve the	se goals, including anticipated operations	
	throughout the entire forest cycle; and thoro	ugh assessment of forest-related risks, such as	forest fires, pest infestations, and disease	
	outbreaks.			
	These alignments aim to prevent, reduce, and	d control risks, ensuring robust protection and	adaptation measures against residual threats.	

Number and Activity Name	A2.4 Conservation forestry		
Scope of activity	Forest management activities with the objective of preserving one or more habitats or species. Conservation forestry assumes no change in land category and occurs on land matching the forest definition as set out in national law, or where not available, in accordance with the FAO definition of forest.		
Scenario analysis for Multi-jurisdiction CGT	Scenario 4 – identifiable overlap; stringency of criteria is not comparable across taxonomies; Justification of the scenario selection: Both the EU and SAT criteria are more stringent than China taxonomy, as they provide detailed processes, China taxonomy criteria have different approach, focusing on enabling types of projects for which criteria they offer limited details		
Corresponding activities	China taxonomy: 4.2.2.1 Forest Resources Cultivation Industry 4.2.1.3 Construction and operation of nature reserves 4.2.2.5 Protection and operation of national parks, world's heritages, national-level scenic and historic interest areas, national forest parks, national geo-parks, and national wetland parks	EU taxonomy: 1.4 Conservation forestry	SAT: 5.3. Conservation, restoration, and maintenance of natural/pristine forests
Multi-jurisdiction CGT substantial contribution criteria	Activity meets criteria of at least one of the analysed taxonomies.		
Common requirements across analysed taxonomies	The SAT taxonomy criteria are benchmarked against numerous private and public certification schemes, each aligning with EU criteria to varying degrees. China's taxonomy does not include details with this level of granularity.		
	Key alignment points include: detailed descrip goals and major constraints; comprehensive s throughout the entire forest cycle; and thorou outbreaks. These alignments aim to prevent, reduce, and	otion of the area based on its classification in t strategies and activities planned to achieve the ugh assessment of forest-related risks, such as d control risks, ensuring robust protection and	he land registry; clearly defined management se goals, including anticipated operations forest fires, pest infestations, and disease adaptation measures against residual threats.

C: Manufacturing

ISIC Mapping

ISIC Section	ISIC Division	Common Ground Taxonomy category
C. Manufacture	10 – 19, 21-23, 31	Not covered
	20. Manufacture of chemicals and chemical products	C1. Manufacture of low-carbon footprint materials
	24. Manufacture of basic metals	
	27. Manufacture of electrical equipment	C2. Manufacture of clean energy technologies
	28. Manufacture of machinery and equipment n.e.c.	
	29. Manufacture of motor vehicles, trailers and semi-trailers	C3. Manufacture of clean energy vehicles and parts
	30. Manufacture of other transport equipment	
	28. Manufacture of machinery and equipment n.e.c.	C4. Manufacture of recycling equipment
	25. Manufacture of fabricated metal products, except machinery and equipment	
	26. Manufacture of computer, electronic and optical products	
	27. Manufacture of electrical equipment	C5. Manufacture of energy-saving equipment
	28. Manufacture of machinery and equipment n.e.c.	

C1. Manufacture of low-carbon footprint materials

Number and Activity Name	C1.1.1 Manufacture of selected high value ch	hemicals	
Scope of activity	Manufacture of selected high value chemicals	s (HVC): ethylene; propylene; butadiene.	
Scenario analysis for Multi-jurisdiction	Scenario 2 – SAT criteria are the most stringer Justification of the scenario selection: SAT has	nt s the most stringent quantitative carbon intens	sity threshold for the manufacturing of
СGТ	selected HVC, while the EU Taxonomy also has qualitative requirements.	is quantitative threshold, though less ambitiou	s, the China taxonomy only entails
Corresponding activities	China taxonomy:E2.1.3.2 Transformation of major3Industries into cleaner production	EU Taxonomy: 3.14. Manufacture of organic basic chemicals	SAT: 4.1. Manufacture of basic chemicals
Multi-jurisdiction CGT substantial contribution criteria	 Carbon intensity cannot exceed 0.51tCO2e/t of HVC in scope The following emissions should be accounted for when comparing to the thresholds: Scope 1 emissions which include all direct emissions from the production processes: emissions generated during the chemical reactions, emissions from fuel combustion onsite Scope 2 emissions which includes indirect emissions from the energy imported from off-site. 		
Additional information	 Fossil gas (used as a fuel source and/or feedstock): Only eligible for existing facilities prior to 2030Biomass (used as a fuel source and/or feedstock) complies with the criteria applicable for biomass sourcing set out in the relevant section of the CGT for bio-energy criteria Hydrogen (used as a fuel source and/or feedstock) complies with the criteria applicable for manufacturing of hydrogen set out in the relevant section of the CGT Facilities using heat supplied from alternative sources, such as geothermal, solar thermal, and waste heat recovery: The heat source must comply with the CGT criteria for each source of energy Criteria are only applicable to the activity where production rate of selected high value chemicals amounts to at least 50% of annual production by volume of a given facility⁵ 		

⁵ The starting point for eligibility is to consider assets and projects where the production rate of the basic chemicals in scope are at least 50% of the total amount of products produced in a year by the relevant asset or project. This is a minimum set as it is understood that a facility producing more than 50% of other coproducts is not viewed as a facility dedicated to chemicals in scope, and the investment may be going into the production of products with high carbon intensities. This also mitigates the risk of greenwashing due to artificially making basic chemicals products low carbon by allocating more carbon emissions to other products not in scope of this Criteria.

Number and Activity	C1.1.2 Manufacture of selected aromatics			
Scope of activity	Manufacture of selected aromatics: henzene, xylene, toluene			
Scenario analysis for Multi-jurisdiction	Scenario 3 – EU and SAT criteria are equally stringent, and more than China Justification of the scenario selection: EU Taxonomy and SAT have equally stringent quantitative threshold, while China taxonomy only			
CGT	entails qualitative requirements			
Corresponding	China taxonomy:	EU Taxonomy:	SAT:	
activities	2.1.3.2 Transformation of major Industries into cleaner production	3.14. Manufacture of organic basic chemicals	4.1. Manufacture of basic chemicals	
Multi-jurisdiction CGT substantial	GHG emissions are lower than 0.0072 tCO2	e/t of complex weighted throughput		
contribution criteria	The following emissions should be accounted	ed for when comparing to the thresholds:		
	• Scope 1 emissions which include all direct emissions from the production processes: emissions generated during the chemical			
	reactions, emissions from fuel combustion onsite			
	 Scope 2 emissions which includes indirect emissions from the energy imported from off-site. 			
Additional notes	 Fossil gas (used as a fuel source and/or feedstock): Only eligible for existing facilities prior to 2030 			
	Where the organic chemicals in scope are produced wholly or partially from renewable feedstock, the life-cycle GHG emissions			
	of the manufactured chemical, manufactured wholly or partially from renewable feedstock, are lower than the life-cycle GHG			
	emissions of the equivalent chemic	cal manufactured from fossil fuel feedstock.		
	 Biomass (used as a fuel source and relevant section of the CCT for his 	/or feedstock) complies with the criteria applica	ble for biomass sourcing set out in the	
	Hudrogon (used as a fuel source on	energy criteria	coble for manufacturing of hydrogon cat out	
	 Hydrogen (used as a fuel source and/or feedstock) complies with the criteria applicable for manufacturing of hydrogen set out in the relevant section of the CCT. 			
	Eacilities using heat supplied from	alternative sources such as geothermal solar th	permal and waste heat recovery: The heat	
	source must comply with the CGT	criteria for each source of energy	iernal, and waste near recovery. The near	
	Life-cycle GHG emissions are calcul	lated using Recommendation 2013/179/FU or a	Iternatively, using ISO 14067:2018(147) or	
	ISO 14064-1:2018(148).			
	 Ouantified life-cycle GHG emission 	s are verified by an independent third party.		

	 Criteria are only applicable to the activity where production rate of selected high value chemicals amounts to at least 50% of annual production by volume of a given facility⁶ 			
Number and Activity Name	C1.1 Manufacture of other organic basic ch	nemicals		
Scope of activity	Manufacture of: (a)high value chemicals (HVC): (i) acetylene; (b) Aromatics: (i) mixed alkylbenzenes, mixed alkylnaphthalenes other than HS 2707 or 2902; (ii) cyclohexane; (viii) ethylbenzene; (ix) cumene; (x) biphenyl, terphenyls, vinyltoluenes, other cyclic hydrocarbons excluding cyclanes, cyclenes, cycloterpenes, benzene, toluene, xylenes, styrene, ethylbenzene, cumene, naphthalene, anthracene; (xi) benzol (benzene), toluol (toluene) and xylol (xylenes) (xii) naphthalene and other aromatic hydrocarbon mixtures (excluding benzole, toluene, xylene). (c) vinyl chloride; (d) styrene; (e) ethylene oxide; (f) monoethylene glycol; (g) adipic acid.			
Scenario analysis for	Scenario 2 – EU criteria are the most stringent			
Multi-jurisdiction CGT	Justification of the scenario selection: EU Ta requirements There is no corresponding SA	axonomy has quantitative threshold, while Chin T activity	a taxonomy only entails qualitative	
Corresponding	China taxonomy:	EU Taxonomy:	SAT:	
activities	2.1.3.2 Transformation of major	3.14. Manufacture of organic basic	Activity is not in SAT	
	Industries into cleaner production	chemicals		
Multi-jurisdiction CGT	GHG emissions from the organic basic chen	nicals in scope production processes are lower	N/A	
substantial	than:			
contribution criteria	(a) for HVC: 0,693 tCO2e/t of HVC;			
	(b) for aromatics: 0,0072 tCO2e/t of comple	ex weighted throughput;		
	(c) for vinyl chloride: 0,1/1 tCO2e/t of vinyl chloride;			
	(a) for styrene: 0,419 tCO2e/t of styrene;			
	(f) for adipic acid: 0.32 tCO2e /t of adipic ac	id		
	For HVC and aromatics the following emissi to the thresholds:	ons should be accounted for when comparing		

⁶ The starting point for eligibility is to consider assets and projects where the production rate of the basic chemicals in scope are at least 50% of the total amount of products produced in a year by the relevant asset or project. This is a minimum set as it is understood that a facility producing more than 50% of other coproducts is not viewed as a facility dedicated to chemicals in scope, and the investment may be going into the production of products with high carbon intensities. This also mitigates the risk of greenwashing due to artificially making basic chemicals products low carbon by allocating more carbon emissions to other products not in scope of this Criteria.

	Scope 1 emissions which include all direct emissions from the production processes: emissions generated during the chemical reactions, emissions from fuel combustion onsite Scope 2 emissions which includes indirect emissions from the energy imported from off- site.	
Additional notes	 Where the organic chemicals in scope are produced wholly or partially from renewable feedstock, the life-cycle GHG emissions of the manufactured chemical, manufactured wholly or partially from renewable feedstock, are lower than the life-cycle GHG emissions of the equivalent chemical manufactured from fossil fuel feedstock. Life-cycle GHG emissions are calculated using Recommendation 2013/179/EU or, alternatively, using ISO 14067:2018 or ISO 14064- 1:2018. Quantified life-cycle GHG emissions are verified by an independent third party. Agricultural biomass used for the manufacture of organic basic chemicals complies with the criteria laid down in Article 29, paragraphs 2 to 5 of Directive (EU) 2018/2001. Forest biomass used for the manufacture of organic basic chemicals complies with the criteria laid down in Article 29, paragraphs 6 and 7 of that Directive 	N/A

Number and	C1.2 Manufacture of iron and	steel		
Activity Name				
Scope of activity	Manufacture of iron and steel.			
Scenario analysis	Scenario 4 – identifiable overla	p; stringency of criteria is not comparable across taxon	iomies;	
for Multi-	Justification of the scenario sel	ection: Both the EU and SAT criteria are more stringent	t than China taxonomy, as they provide quantitative	
jurisdiction CGT	thresholds; it is challenging to	compare stringency given that the EU taxonomy focuse	es on GHG emissions intensity at each of the stages of	
	the manufacturing process and	SAT provides requirements according to the technolog	gy type.	
Corresponding	China taxonomy:	EU Taxonomy:	SAT:	
activities	2.1.3.2 Transformation of	3.9 Manufacture of basic iron and steel	4.3. Manufacture of basic iron and steel	
	major Industries into cleaner			
	production ⁷			
Multi-jurisdiction	Activity meets criteria of at lea	st one of the analysed taxonomies.		
CGT substantial				
contribution criteria				
Common	For the production of steel three	ough the manufacturing process that entails Electric Ar	c Furnace, both the EU and SAT taxonomies entail	
requirements	criteria for the steel scrap inpu	t (not being lower than 70% for both taxonomies).		
across analysed				
taxonomies	For other production pathways	the alignment is often dependent on CCS/CCUS. The C	CCS/CCUS needs to meet criteria focused around	
	leakage rates and define perma	anent CO2 storage		

⁷ The China activity covers broader range of industries than iron and steel.

Number and Activity Name	C1.3 Manufacture of liquid biofuel for use	in transport			
Scope of activity	Manufacture of liquid biofuel for use in transport excluding biogas				
Scenario analysis for	Scenario 4 – identifiable overlap; stringenc	y of criteria is not comparable across taxonomies			
Multi-jurisdiction	Justification of the scenario selection: The	China and EU activities has overlap with but is broader than the spe	cified scope. EU		
CGT	taxonomy is explicit on the technical criteri	a, whilst China implies it national standards in its green industry gu	ideline. There is no		
Componenting	corresponding SAI activity		CAT		
Corresponding	China taxonomy:	EU Taxonomy:	SAI:		
activities	3.2.2.3 Construction and operation of	4.13. Manufacture of biogas and biofuels for use in transport	Activity is not in SAI		
	biomass energy utilization facilities				
Multi-jurisdiction CGT	Activity meets criteria of at least one of the	e analysed taxonomies.	N/A		
substantial					
contribution criteria					
Common	EU Criteria:		N/A		
requirements across	1. Agricultural biomass used for the manufacture of liquid biofuel for use in transport, such as fuel				
analysed taxonomies	ethanol and biodiesel, complies with t	he criteria laid down in Article 29, paragraphs 2 to 5, of Directive			
	(EU) 2018/2001. Forest biomass use complies with the criteria laid down in Article 29, paragraphs 6 and				
	7, of that Directive. Food-and feed crops are not used for the manufacture of biofuels for use in transport.				
	2. The greenhouse gas emission savings	from the manufacture of liquid biofuel for use in transport are at			
	least 65 % in relation to the GHG savir	g methodology and the relative fossil fuel comparator			
	3. Where the CO2 that otherwise would	be emitted from the Manufacture process is captured for the			
	purpose of underground storage, the	CO2 is transported and stored underground in accordance with			
	the technical screening criteria set out	t in Sections 5.11 and 5.12 of this Annex			
	China Criteria:				
	1. Code for Design of Liquide Biofuel Pla	nt (GB 50957-2013)			
	2. Internagement standard for production	preparation and process of biomass liquid fuel construction			
	project (NB/ 1 13006-2016)				

Number and Activity Name	C1.4 Manufacture of cement				
Scope of activity	Manufacture of cement / cem	Manufacture of cement / cementitious product excluding manufacturing of pureplay clinker			
Scenario analysis	Scenario 2 – SAT criteria more	stringent;			
for Multi-	Justification of the scenario se	lection: While SAT and EU Taxon	omy have same starting	point for 2020 for quantitative thresh	olds, SAT has
jurisdiction CGT	further restrictions on fuel sou	rce. There is no corresponding C	hina activity		
Corresponding	China taxonomy:	EU Taxonomy:		SAT:	
activities	Activity is not in China	3.7 Manufacture of cement		4.2. Manufacture of cement	
	taxonomy				
Multi-jurisdiction	N/A	GHG emissions intensity from t	he cement / cementitiou	is product* production processes are	lower than:
CGT substantial		0.416 t CO2/ t cementitious pro	Dauct (2025)°		
contribution criteria		* comentitious product means	clinker coment and com	ent substitutes produced by the rend	rting company
			clinker, cement and cem	ent substitutes produced by the repe	ting company
		For the comparison purposes, o	calculation of the facilitie	es' correction factor adjusted emission	ns intensity
		must be conducted to account	for the cement grade be	ing produced.	
			C C		
		Cement class	Expected emissions	Correction factor	
			(t CO2eq/ t cementitious pro	duct)	
		32.5	0.550	1.18	
		42.5	0.649	1.00	
		52.5	0.748	0.87	
Additional notes	N/A	If facilities are using biomass, h	ydrogen, or waste as a f	uel source they are eligible only if the	y meet the
		following criteria:			
		Hydrogen: The hydrogen	used meets criteria for h	ydrogen production set out in the rel	evant section
		of the CGT			
		Biomass: The biomass use	ed complies with the crit	eria applicable for biomass sourcing s	et out in the

⁸ Note: emissions intensity threshold is the value that SAT envisages for 2025. The yearly threshold values forming the emissions pathway for all cement production facilities are available in Appendix L (Table 21) of SAT.

	 Waste-Derived Fuels, including Municipal Solid Waste (MSW) must meet the following criteria All waste of recycling potential must be removed prior to burning in line with the waste hierarchy and Municipal solid waste will not be eligible as a fuel type after 2035
	And if the plant uses Carbon Capture and Storage (CCS) equipment on site, it must comply with the criteria for CCS Storage set out in the relevant section of the CGT.

Number and Activity Name	C 1.5 Manufacture of aluminium			
Scope of activity	Manufacture of aluminium through primary	alumina (bauxite) process or secondary alumini	um recycling	
Scenario analysis for	Scenario 2 – SAT criteria are the most string	ent		
Multi-jurisdiction	Justification of the scenario selection: the S	AT criteria are more stringent than the EU criteria	a in terms of electricity intensity threshold.	
CGT	There is no corresponding China activity			
Corresponding	China taxonomy:	EU Taxonomy:	SAT:	
activities	Activity is not in China taxonomy	3.8 Manufacture of aluminium	4.5 Manufacture of aluminium	
Multi-jurisdiction CGT	N/A	The activity complies with one of the following	criteria:	
substantial		Primary aluminium where the econom	ic activity complies with two of the following	
contribution criteria		criteria until 2025 and with all of the fo	ollowing criteria after 2025:	
		• the GHG emissions do not exceed CO2e emissions intensity thresholds of 1.484		
		CO2e/t aluminium.		
		 the average carbon intensity for the 	indirect GHG emissions does not exceed 100	
		g CO2e/kWh.		
		 the electricity consumption for the n 	nanufacturing process does not exceed	
		14.86MWh/t Al.		
		 Secondary aluminium – all eligible. 		

Number and Activity Name	C1.6 Manufacture of plastics in primary form			
Scope of activity	Manufacture of plastics in primary form			
Scenario analysis for Multi-jurisdiction CGT	Scenario 2 – SAT criteria are the most stringent Justification of the scenario selection: the SAT criteria are more stringent than the EU criteria as they restrict single-use products. There is no corresponding China activity			
Corresponding activities	China taxonomy: Activity is not in China taxonomy	EU Taxonomy: 3.17 Manufacture of plastics in primary form	SAT: 4.6 Manufacture of plastics in primary form	
Multi-jurisdiction CGT substantial contribution criteria	N/A	 SAI: 3.17 Manufacture of plastics in primary form The activity complies with one of the following criteria: the plastic in primary form that is fully manufactured by mechanical recycling of plastic waste is directly eligible, without any further requirements incl. these focused on GHG emissions accounting; where mechanical recycling is not technically feasible or economically viable, the plastic in primary form is fully manufactured by chemical recycling of plastic wast and the lifecycle GHG emissions of the manufactured plastic, excluding any calculated credits from the production of fuels, are lower than the lifecycle GHG emissions are lower than the lifecycle GHG emissions of the equivalent plastic in primary form manufactured from fossil fuel feedstock. derived wholly or partially from renewable feedstock and its lifecycle GHG emissions are calculated using ISO 14067:2018 or ISO 14064-1:2018. Quantified lifecycle GHG emissions are verified by an independent third party. And food or feed crops are not used as bio-based feedstock for the manufacture of plastic in primary form. And at least 90% of the produced plastic must not knowingly be used for single use consumer receiver. 		
Additional notes		Lifecycle GHG emissions are calculated using Quantified lifecycle GHG emissions are verifie	SO 14067:2018 or ISO 14064-1:2018. d by an independent third party.	

Number and Activity	C1.7 Manufacture of carbon black			
Name				
Scope of activity	Manufacture of carbon black			
Scenario analysis for Multi-jurisdiction	Scenario 3 – EU and SAT criteria are equally Justification of the scenario selection: EU ta	stringent xonomy and SAT have equally stringent quantita	tive threshold. There is no corresponding	
CGT	China activity	, , , , , ,		
Corresponding	China taxonomy:	EU Taxonomy:	SAT:	
activities	Activity is not in China taxonomy	3.11 Manufacture of carbon black	4.1 Manufacture of basic chemicals	
Multi-jurisdiction CGT substantial contribution criteria	N/A	GHG emissions from the carbon black production processes are lower than 1,141 tCO2e per tonne of product. The following emissions should be accounted for when comparing to the thresholds:		
		 Scope 1 emissions which include an uncer emissions from the production processes: emissions generated during the chemical reactions, emissions from fuel combustion onsite Scope 2 emissions which includes indirect emissions from the energy imported from off-site. 		
Additional notes	N/A	 Fossil gas (used as a fuel source and/or prior to 2030 Where the organic chemicals in scope a renewable feedstock, the life-cycle GHG manufactured wholly or partially from cycle GHG emissions of the equivalent feedstock. Biomass (used as a fuel source and/or applicable for biomass sourcing set out energy criteria Hydrogen (used as a fuel source and/o applicable for manufacturing of hydrog Facilities using heat supplied from alter thermal, and waste heat recovery: The criteria for each source of energy 	r feedstock): Only eligible for existing facilities are produced wholly or partially from G emissions of the manufactured chemical, renewable feedstock, are lower than the life- chemical manufactured from fossil fuel feedstock) complies with the criteria t in the relevant section of the CGT for bio- r feedstock) complies with the criteria gen set out in the relevant section of the CGT rnative sources, such as geothermal, solar heat source must comply with the CGT	

	 Life-cycle GHG emissions are calculated using Recommendation 2013/179/EU or, alternatively, using ISO 14067:2018(147) or ISO 14064-1:2018(148). Quantified life-cycle GHG emissions are verified by an independent third party. Criteria are only applicable to the activity where production rate of selected high value chemicals amounts to at least 50% of annual production by volume of a given facility⁹
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⁹ The starting point for eligibility is to consider assets and projects where the production rate of the basic chemicals in scope are at least 50% of the total amount of products produced in a year by the relevant asset or project. This is a minimum set as it is understood that a facility producing more than 50% of other coproducts is not viewed as a facility dedicated to chemicals in scope, and the investment may be going into the production of products with high carbon intensities. This also mitigates the risk of greenwashing due to artificially making basic chemicals products low carbon by allocating more carbon emissions to other products not in scope of this Criteria.

Number and Activity Name	C1.8 Manufacture of chlorine				
Scope of activity	Manufacture of chlorine				
Scenario analysis for	Scenario 2 – EU criteria are the most stringent				
Multi-jurisdiction	Justification of the scenario selection: EU taxonomy and SAT have equally stringent quantitative threshold when it comes to electricity				
CGT	consumption, however in the EU both the electricity consumption and GHG emissions thresholds need to be met and in SAT meeting				
	only one of them is mandatory. There is no corresponding China activity				
Corresponding	China taxonomy:	EU Taxonomy:	SAT:		
activities	Activity is not in China taxonomy	3.13 Manufacture of chlorine	4.1 Manufacture of basic chemicals		
Multi-jurisdiction CGT	N/A	Electricity consumption for electrolysis and chlorine treatment is equal or lower than 2.45			
substantial		MWh per tonne of chlorine.			
contribution criteria					
		And			
		Average life-cycle GHG emissions of the electricity used for chlorine production is at or			
		lower than 100 g CO2e/kWh.			
Additional notes	N/A	Life-cycle GHG emissions are calculated using Recommendation 2013/179/EU or,			
		alternatively, using ISO 14067:2018(136) or ISO 14064-1:2018(137).			
		Quantified life-cycle GHG emissions are verified by an independent third party.			

Number and Activity	C1.9 Manufacture of anhydrous ammonia				
Name					
Scope of activity	Manufacture of anhydrous ammonia				
Scenario analysis for	Scenario 2 – SAT criteria are the most string	Scenario 2 – SAT criteria are the most stringent			
Multi-jurisdiction	Justification of the scenario selection: the SAT criteria are more stringent than the EU criteria as they have further provisions regarding				
CGT	CO2 management from ammonia production. There is no corresponding China activity				
Corresponding	China taxonomy:	EU Taxonomy:	SAT:		
activities	Activity is not in China taxonomy	3.15 Manufacture of anhydrous ammonia	4.1 Manufacture of basic chemicals		
Multi-jurisdiction CGT	N/A	The activity complies with one of the following criteria:			
substantial		(a) ammonia is produced from hydrogen that complies with the criteria set out by the			
contribution criteria		relevant section of CGT for Manufacturing of hydrogen;			
		Or			
		(b) ammonia is recovered from waste water			
		AND			
		CO2 from ammonia production should not be u	sed for urea production		
Additional notes	N/A	 Fossil gas (used as a fuel source and/or 	feedstock): Only eligible for existing facilities		
		prior to 2030			
		Biomass (used as a fuel source and/or feedstock) complies with the criteria			
		applicable for biomass sourcing set out in the relevant section of the CGT for bio- energy criteria			
		 Hydrogen (used as a fuel source and/or feedstock) complies with the criteria 			
		applicable for manufacturing of hydrogen set out in the relevant section of the CGT			
		 Facilities using heat supplied from alter 	rnative sources, such as geothermal, solar		
		thermal, and waste heat recovery: The	heat source must comply with the CGT		
		Criteria for each source of energy			
		Criteria are only applicable to the activ	ity where production rate of selected high		
		facility ¹⁰	% of annual production by volume of a given		

¹⁰ The starting point for eligibility is to consider assets and projects where the production rate of the basic chemicals in scope are at least 50% of the total amount of products produced in a year by the relevant asset or project. This is a minimum set as it is understood that a facility producing more than 50% of other coproducts is not viewed as a facility dedicated to chemicals in scope, and the investment may be going into the production of products with high carbon intensities. This also mitigates the risk of greenwashing due to artificially making basic chemicals products low carbon by allocating more carbon emissions to other products not in scope of this Criteria.
Number and Activity	C1.10 Manufacture of nitric acid			
Name				
Scope of activity	Manufacture of nitric acid			
Scenario analysis for	Scenario 3 – EU and SAT criteria are equally str	ingent		
Multi-jurisdiction	Justification of the scenario selection: EU taxor	nomy and SAT have equally stringent quantita	tive threshold. There is no corresponding	
CGT	China activity			
Corresponding	China taxonomy:	EU Taxonomy:	SAT:	
activities	Activity is not in China taxonomy	3.16 Manufacture of nitric acid	4.1 Manufacture of basic chemicals	
Multi-jurisdiction CGT	N/A	GHG emissions from the manufacture of nit	ric acid are lower than 0,038 tCO2e per	
substantial		tonne of nitric acid.		
contribution criteria				
		The following emissions should be accounted	ed for when comparing to the thresholds:	
		Scope 1 emissions which include all direct e	missions from the production processes:	
		emissions generated during the chemical reactions, emissions from fuel combustion		
		onsite.		
Additional notes	N/A	Fossil gas (used as a fuel source and/or feedstock): Only eligible for existing		
		facilities prior to 2030		
		Where the organic chemicals in sco	pe are produced wholly or partially from	
		renewable feedstock, the life-cycle GHG emissions of the manufactured		
		chemical, manufactured wholly or partially from renewable feedstock, are lower		
		than the life-cycle GHG emissions o	if the equivalent chemical manufactured	
		Form tossil fuel reedstock.	(or foodstock) complias with the criteria	
		 Biolitass (used as a fuel source and, applicable for biomass sourcing set 	out in the relevant section of the CCT for	
		hio-energy criteria	out in the relevant section of the CG1 for	
		 Hydrogen (used as a fuel source and 	d/or feedstock) complies with the criteria	
		applicable for manufacturing of hydrogen	lrogen set out in the relevant section of the	
		CGT		
		Facilities using heat supplied from a	alternative sources, such as geothermal, solar	
		thermal, and waste heat recovery:	The heat source must comply with the CGT	
		criteria for each source of energy		
		Life-cycle GHG emissions are calculated	ated using Recommendation 2013/179/EU	
		or, alternatively, using ISO 14067:20	018(147) or ISO 14064-1:2018(148).	

	•	Quantified life-cycle GHG emissions are verified by an independent third party. Criteria are only applicable to the activity where production rate of selected
		high value chemicals amounts to at least 50% of annual production by volume of
		a given facility ¹¹

¹¹ The starting point for eligibility is to consider assets and projects where the production rate of the basic chemicals in scope are at least 50% of the total amount of products produced in a year by the relevant asset or project. This is a minimum set as it is understood that a facility producing more than 50% of other coproducts is not viewed as a facility dedicated to chemicals in scope, and the investment may be going into the production of products with high carbon intensities. This also mitigates the risk of greenwashing due to artificially making basic chemicals products low carbon by allocating more carbon emissions to other products not in scope of this Criteria.

Number and Activity	C1.11 Manufacture of soda ash		
Name			
Scope of activity	Manufacture of soda ash		
Scenario analysis for	Scenario 2 – EU criteria are the most stringer	it	
Multi-jurisdiction	Justification of the scenario selection: SAT introduces two options for compliance either it is possible to meet GHG emissions threshold,		
CGT	or the threshold related to the carbon intens	ity of the electricity used; while the EU only all	ows for the former option. There is no
	corresponding China activity		
Corresponding	China taxonomy:	EU Taxonomy:	SAT:
activities	Activity is not in China taxonomy	3.12 Manufacture of soda ash	4.1 Manufacture of basic chemicals
Multi-jurisdiction CGT	N/A GHG emissions from the soda ash production processes are lower than 0,789 tCO2e per		
substantial		tonne of product.	
contribution criteria			

C2. Manufacture of clean energy technologies

Number and Activity Name	C2.1 Manufacture, installation, and servicing of high, medium and low voltage electrical equipment for electrical transmission and distribution that result in or enable a substantial contribution to climate change mitigation				
Scope of activity	The economic activity develops, manufactures, installs, maintains or services electrical products, equipment or systems, or software aimed at substantial GHG emission reductions in high, medium and low voltage electrical transmission and distribution systems through electrification, energy efficiency, integration of renewable energy or efficient power conversion. The economic activity includes systems to integrate renewable sources of energy in the electric grid, interconnect or increase grid automation, flexibility and stability, manage demand-side response, develop low carbon transport or heat, or deploy smart metering technologies for substantial improvement of energy efficiency.				
	The economic activity in this category does no	ot include heat and power generating equipment and electrical appliance	ces.		
Scenario analysis for	Scenario 2 – EU criteria are the most stringen	t i se			
Multi-jurisdiction	Justification of the scenario selection: The EU	criteria detail quantitative criteria for several types of products, while C	China taxonomy		
CGT	outlines eligible categories of activities witho	ut specifying quantitative or qualitative thresholds. There is no correspo	onding SAT activity.		
Corresponding	China taxonomy:	EU Taxonomy:	SAT:		
activities	3.1.1.1 Production of smart grid products	3.20. Manufacture, installation, and servicing of high, medium and	Activity is not in		
	and equipment	low voltage electrical equipment for electrical transmission and	SAT		
	3.1.1.2 Construction and Operation of	distribution that result in or enable a substantial contribution to			
	Smart Grids	climate change mitigation			
	5.5.4.1 Construction and operation of				
	charging, battery replacement, hydrogen				
	refueling and gas refueling facilities				
Multi-jurisdiction CGT	1. The activity manufactures, installs, or main	tains one or more of the following, or provides maintenance, repair	N/A		
substantial	and technical consulting services essential to the functioning over the lifetime of one or more of the following:				
contribution criteria	a. electric vehicle charging stations and supporting electric infrastructure for the electrification of transport				
	that is installed primarily to enable electric vehicle charging.				
	Any activity included in Section 7.4. i	s excluded from this point.			
	b. transmission and distribution current	t-carrying wiring devices and non-current-carrying wiring devices for			
	wiring electrical circuits, and transfor	mers that comply with the Tier 2 (1 July 2021) requirements for large			
	power transformers set out in Annex	I to Commission Regulation (EU) 548/2014 ⁽¹⁶⁹⁾ , and medium power			
	transformers with highest voltage for	r equipment not exceeding 36 kV, with AA0 level requirements on no-			

lo	bad losses set out in standard EN 50708 series, provided those devices and transformers contribute to	
in	creasing the proportion of renewable energy in the system or improve energy efficiency;	
c. lo	ow voltage electrical products, equipment and systems, that increase the controllability of the electricity	
۶y	stem, and contribute to increasing the proportion of renewable energy or improve energy efficiency,	
tł	nat are:	
	i. low voltage circuit breakers, switchgears, switchboards, panel boards or control centres that are	
	connectable, automated or equipped with power or energy metering devices and that comply	
	with IEC TR 63196 Low-Voltage Switchgear and Control gear and their assemblies – Energy	
	efficiency;	
	ii. Home and Building Electronic Systems (HBES), as referred to in EN IEC 63044 series, where the	
	products and systems are needed to measure, control and reduce energy consumption;	
	iii. technologies that enable to increase the energy efficiency of low voltage installations, recognised	
	under HD 60364-8-1: Low-voltage electrical installations – Part 8-1: Energy efficiency and HD	
	60364-8-82: Low-voltage electrical installations – Part 8-82: Functional aspects – Prosumer's low-	
	voltage electrical installations, including energy and power meters, external customer display,	
	power compensation, phase compensation and filtering and efficient electric motor-driven	
	systems;	
d. hi	igh and medium voltage switchgears and control gears that increase the controllability of the electricity	
S	stem, are integrated to increase the proportion of renewable energy or improve energy efficiency.	
The equip	ment referred to in this point (d) complies with EN 62271-1 High-voltage switchgear and control gear –	
Part 1: Co	mmon specifications for alternating current switchgear and control gear and EN 62271-200 High-voltage	
switchgea	r and control gear – Part 200: AC metal-enclosed switchgear and control gear for rated voltages above 1	
kV and up	to and including 52 kV or with EN 62271-203 High-voltage switchgear and control gear – Part 203: Gas-	
insulated	metal-enclosed switchgear for rated voltages above 52kV;	
e. d	emand response and load shifting equipment, systems and services that increase the flexibility of the	
e	lectricity system and support grid stability, that include:	
	i. solutions to carry information to users for remotely acting on supply or consumption, including	
	customer data hubs;	
	ii. automated control centres for load management and their core components (switchboards,	
	contactors, relays, circuit breakers, automatic transfer switches).	
	iii. Core components are installed as part of control centres;	
	iv. where not included in Section 8.2., advanced software and analytics to maximise efficiency and	
	automation of electricity networks or integration of decentralised energy resources, at the level of	
	the electricity grid or an industry, that include:	

advanced control rooms, automation of electrical substations, voltage control capabilities; operation software enabling operators to simulate the operation of grids for the purpose of ensuring grid stability, managing Distributed Energy Resources or improving grid performance.

The software supports dynamic grid characteristics required for the transition towards renewable energy. It is capable of processing data from near-real time grid measurements to observe how the power transmission, distribution and consumption really occur, and use this information to improve simulation studies and operation activities, including the avoidance of outages, black-outs, and wastes;

where not included in Section 8.2., software supporting the design and planning of new grids or grid upgrades. The software supports dynamic grid characteristics required for the transition towards renewable energy, including volatile power generation at distribution level ("prosumers"), changing of power flow directions, and the use of grid storage units;

meteorological sensors for forecasting renewable electricity production;

stand-alone or embedded connectable controllers and relays that enable an efficient use of electrical sources and loads;

load-shedding and load-shifting equipment for load management and source-switching equipment, where the equipment is compliant with EN IEC 62962:2019 Particular requirements for load-shedding equipment;

- a. where not included in Section 8.2., communication systems, software and control equipment, products, systems and services for energy efficiency or integration of renewable energy:
 - i. equipment to allow for exchange specifically of renewable electricity between users;
 - ii. battery swapping technology or service, supporting the electrification of transport;
 - iii. microgrid management systems;
 - iv. energy or power management systems, energy or power controls systems and SCADA systems for power management;
 - v. contactors, motor starters and motor controls that are connectable or automated and enable remote or automated control of electricity consumption and optimisation of load variation;
 - vi. variable speed drives and other variable speed drive solutions, excluding soft starters, that enable energy efficiency in electrical motor applications, where the equipment is compliant with EN 61800-9-1: Adjustable speed electrical power drive systems - Part 9-1: Ecodesign for power drive systems, motor starters, power electronics and their driven applications - General requirements for setting energy efficiency standards for power driven equipment using the extended product approach (EPA) and semi analytic model (SAM) and EN 61800-9-2: Adjustable speed electrical power drive systems - Part 9-2: Ecodesign for power drive systems, motor starters, power electronics and their driven applications - Energy efficiency indicators for power drive systems and motor starters;

vii.	low-voltage electrical motors with an energy efficiency class (according to EN 60034-30-1:	
	Rotating electrical machines - Part 30-1: Efficiency classes of line operated AC motors (IE code))	
	exceeding the requirements set by Commission Regulation 2019/1781 ⁽¹⁷⁰⁾ , specifically:	
viii.	single-phase motors with a rated output of 0,12 kW or higher and an efficiency class of IE3 or	
	higher;	
ix.	Ex eb increased safety motors with a rated output between 0,12 kW and 1 000 kW, with 2, 4, 6 or	
	8 poles and an efficiency class IE3 or higher;	
х.	3-phase motors with a rated output between 0,75 kW and 1000 kW, with 2, 4, 6 or 8 poles, which	
	are not Ex eb increased safety motors and have (i) an efficiency class of IE5 for motors with 2,4 or	
	6 poles and a rated power between 75 kW and 200 kW, (ii) an efficiency class of IE 4 or higher for	
	all other motors;	
xi.	3-phase motors with a rated output between 0,12 kW and 0,75 kW, with 2, 4, 6 or 8 poles, which	
	are not Ex eb increased safety motors and have an efficiency class of IE3 or higher;	
xii.	3-phase VSD only motors with a rated output between 0,75 kW and 1000 kW with 2, 4, 6 or 8	
	poles, classified according to the EN IEC TS 60034-30-2 and an efficiency class IE5;	
a. mediur	m- and high-voltage motors with a rated power above 1000 kW and an energy efficiency class IE 4 or	
higher	according to draft standard IEC 60034-30-3.	
2. The following	g elements are not compliant:	
a. infrastr	ructure dedicated to creating a direct connection or expanding an existing direct connection	
betwee	en a substation or network and a power production plant that is more greenhouse gas intensive	
than 10	JU g CO ₂ e/kWh measured on a life cycle basis. That exclusion only applies to equipment that is	
directly	y used to connect, or reinforce the connection to, a power production plant that is more greenhouse	
gas inte	ensive than 100 g $CO_2e/kwh measured on a life cycle basis;$	
D. produc	ion transport distribution storage manufacturing or transformation of fossil fuels	
3 Switchgoars y	with insulating or breaking medium using, or whose functioning relies on gases with a Global	
Warming Poten	tial above 10 are not compliant	
For all nower ra	inges, switchgears containing SE6 are not compliant	
4 All products	equipment and systems comply with mandatory energy and material efficiency performance	
requirements la	aid down in Directive 2009/125/FC of the European Parliament and of the Council Manufacturers	
refer to the late	est applicable performance requirements in the Union.	
		L

Number and Activity	C2.2 Manufacture of batteries			
Name				
Scope of activity	Manufacture of rechargeable batteries, battery packs and accumulators for transport, stationary and off-grid energy storage and other industrial applications. Manufacture of respective components (battery active materials, battery cells, casings and electronic components). Recycling of end-of-life batteries.			
Scenario analysis for	Scenario 3 – EU and SAT criteria are equally s	tringent, and more than China		
Multi-jurisdiction	Justification of the scenario selection: The EU	and SAT criteria are the same and contain det	ails on the nature of batteries being	
CGT	manufactured and make reference to second	ary raw materials, as well as a requirement for	substantial reductions in emissions. The two	
	activities under Chinese Taxonomy are coveri	ng partially the manufacturing of batteries and	l do not refence the battery specific	
	guidelines.			
Corresponding	China taxonomy:	EU Taxonomy:	SAT:	
activities	1.6.1.1 Manufacturing of Key	3.4 Manufacture of batteries	4.7 Manufacture of batteries	
	Components of New Energy Vehicles			
	And its Industrialization n			
	3.1.1.1 Production of Smart Grid Products			
	and Equipment			
Multi-jurisdiction CGT	The economic activity manufactures rechargeable batteries, battery packs and accumulators (and their respective components),			
substantial	including from secondary raw materials, that result in substantial GHG emission reductions in transport, stationary and off-grid energy			
contribution criteria	storage and other industrial applications.			
	The economic activity recycles end-of-life bat	teries.		

Number and Activity	C2.3 Production of wind generators			
Name				
Scope of activity	Manufacture of onshore and offshore wind turbines, wind turbine generators, wind turbine blades, bearings, cables, gearboxes, towers			
	and other key components of 3MW and ab	ove wind turbines for plateau, low-temperature	e, low wind speed environments, and wind	
	farm-related systems and equipment.			
Scenario analysis for	Scenario 2 – China criteria are the most str	Scenario 2 – China criteria are the most stringent		
Multi-jurisdiction	Justification of the scenario selection: Chin	a criteria are more specific than the EU and SAT	taxonomies, as the Chinese Taxonomy	
CGT	references the capacity of the generators.			
Corresponding	China taxonomy:	EU Taxonomy:	SAT:	
activities	3.2.1.1 Manufacture of Wind Generators	3.1 Manufacture of renewable energy	4.8. Manufacture of renewable energy	
		technologies	technologies	
Multi-jurisdiction CGT	Manufacture of onshore and offshore wind	I turbines, wind turbine generators, wind turbin	e blades, bearings, cables, gearboxes, towers	
substantial	and other key components of 3MW and ab	ove wind turbines for plateau, low-temperature	e, low wind speed environments, and wind	
contribution criteria	farm-related systems and equipment.			

Number and Activity	C2.4 Production of solar generators			
Name				
Scope of activity	Manufacture of photovoltaic (PV) power ge	enerators and solar thermoelectric equipment.		
Scenario analysis for	Scenario 2 – China criteria are the most str	ingent		
Multi-jurisdiction	Justification of the scenario selection: Chin	a criteria are more specific than the EU and SAT	taxonomies. Both the EU and SAT activities	
CGT	are covering the production of all renewab	are covering the production of all renewable energy technologies. However, the Chinese Taxonomy is more precise and provides		
	specific requirements for the manufacturing of the generator and specific requirements for the production of PV panels.			
Corresponding	China taxonomy:	EU Taxonomy:	SAT:	
activities	3.2.1.2 Manufacture of Solar Generators	3.1 Manufacture of renewable energy	4.8. Manufacture of renewable energy	
		technologies	technologies	
Multi-jurisdiction CGT	PV power generator manufacture enterpris	ses and projects as specified in the Specification	s for the Photovoltaic Manufacture Industry	
substantial	(2021 Edition).			
contribution criteria				
	The production of PV cells as specified in the Level 1 requirements in the System of Clean Production Assessment Indexes for the			
	Photovoltaic Cell Industry (2016 Edition)			

Number and Activity	C2.5 Production of biomass energy utilization equipment			
Name				
Scope of activity	Manufacture of collection, crushing, transportation, and storage equipment for agricultural by-products such as straw and rice husk;			
	Manufacture of biomass-power generators and heating equipment, marsh gas and biogas production equipment, biomass solid and			
	liquid fuel production equipment, and othe	er equipment making use of biomass energy.		
Scenario analysis for	Scenario 2 – China criteria are the most str	ingent		
Multi-jurisdiction	Justification of the scenario selection: Chin	a's scope is more specific than the EU and SAT t	axonomies. Both the EU and SAT activities	
CGT	are covering the production of all renewab	le energy technologies. However, the Chinese T	axonomy is more precise and provides a	
	narrower description of the production of Biomass energy with a detailed description of all stages throughout the process.			
Corresponding	China taxonomy:	EU Taxonomy:	SAT:	
activities	3.2.1.3 Manufacture of Biomass	3.1 Manufacture of renewable energy	4.8. Manufacture of renewable energy	
	Production Facilities	technologies	technologies	
Multi-jurisdiction CGT	All activities within the scope are directly eligible			
substantial				
contribution criteria				

Number and Activity	C2.6 Production of hydropower generators and pumped-storage equipment			
Name				
Scope of activity	Manufacture of high-performance and large-capacity hydropower generators, high-head and large-capacity pumped storage equipment, thousand-megawatt large hydraulic turbine generators, variable-speed pumped storage equipment, ultra-high-head large-impact hydraulic turbine generators, seawater pumped storage equipment, and other relevant hydropower generators and pumped storage equipment			
Scenario analysis for	Scenario 2 – China criteria are the most stringent			
Multi-jurisdiction	Justification of the scenario selection: Scop	pe of China activity is more specific than the EU a	and SAT taxonomies. Both the EU and SAT	
CGT	activities are covering the production of al	I renewable energy technologies. However, the	Chinese Taxonomy is more precise and	
	provides a narrower description with specific requirements for each stage of the Hydropower manufacturing process.			
Corresponding	China taxonomy:	EU Taxonomy:	SAT:	
activities	3.2.1.4 Manufacture of Hydropower and	3.1 Manufacture of renewable energy	4.8. Manufacture of renewable energy	
	Pumped-storage Facilities	technologies	technologies	
Multi-jurisdiction CGT	All activities within the scope are directly eligible			
substantial				
contribution criteria				

Number and Activity	C2.7 Production of fuel cell equipment		
Name			
Scope of activity	Manufacture of fuel cells using proton exchar	nge membrane, direct methanol, alkaline fuel, i	molten carbonic acid fuel, phosphoric acid
	fuel, and solid oxide		
Scenario analysis for	Scenario 4 – identifiable overlap; stringency c	f criteria is not comparable across taxonomies	
Multi-jurisdiction	Justification of the scenario selection: The EU	activity does not refer to specific technologies	as does China's taxonomy, however, it
CGT	requires substantial life-cycle GHG emission s	avings. There is no corresponding SAT activity	
Corresponding	China taxonomy:	EU Taxonomy:	SAT:
activities	3.2.1.7 Production of Fuel Cell Equipment	3.6. Manufacture of other low carbon	Activity is not in SAT
		technologies	
Multi-jurisdiction CGT	Activity meets criteria of at least one of the a	nalysed taxonomies	N/A
substantial			
contribution criteria			
Common	The economic activity manufactures technolo	N/A	
requirements across	emission savings compared to the best performing alternative		
analysed taxonomies	technology/product/solution available on the	market.	
Additional notes	Life-cycle GHG emission savings are calculated	d using ISO 14067:201897 or ISO 14064-	N/A
	1:201898.		

Number and Activity	C2.8 Production of geothermal energy utilization equipment		
Name			
Scope of activity	Manufacture of ground source heat pumps	s, high-temperature geothermal heat pumps, ke	y equipment of geothermal absorption
	refrigeration systems, medium and low-temperature geothermal power generation systems and geothermal drying and hot water		
	supply systems, and anti-corrosion and ant	i-incrustation equipment for geothermal energy	vutilization.
Scenario analysis for	Scenario 2 – China criteria are the most str	ingent	
Multi-jurisdiction	Justification of the scenario selection: Chin	a's scope of activity is more specific than the EU	and SAT taxonomies. Both the EU and SAT
CGT	activities are covering the production of all	renewable energy technologies. However, the G	Chinese Taxonomy is more precise and
	provides a narrower description with specific requirements for each stage of the Geothermal Energy manufacturing process.		
Corresponding	China taxonomy:	EU Taxonomy:	SAT:
activities	3.2.1.8 Production of Geothermal Energy	3.1 Manufacture of renewable energy	4.8. Manufacture of renewable energy
	Utilization Equipment	technologies	technologies
Multi-jurisdiction CGT	All activities within the scope are directly eligible		
substantial			
contribution criteria			

Number and Activity	C2.9 Production of marine energy utilization equipment		
Name			
Scope of activity	Manufacture of marine energy utilization e	equipment that generates electricity from resou	rces, such as marine tidal energy, tidal
	current energy, wave energy, temperature	difference energy, and salt difference energy.	
Scenario analysis for	Scenario 2 – China criteria are the most str	ingent	
Multi-jurisdiction	Justification of the scenario selection: Chin	a's scope of activity is more specific than the EU	and SAT taxonomies. Both the EU and SAT
CGT	activities are covering the production of all	I renewable energy technologies. However, the	Chinese Taxonomy is more precise and
	provides a narrower description with speci	ific requirements for each stage of the Marine E	nergy Utilisation equipment manufacturing
	process.		
Corresponding	China taxonomy:	EU Taxonomy:	SAT:
activities	3.2.1.9 Manufacture of Marine Energy	3.1 Manufacture of renewable energy	4.8. Manufacture of renewable energy
	Exploitation Facilities	technologies	technologies
Multi-jurisdiction CGT	All activities within the scope are directly eligible		
substantial			
contribution criteria			

Number and	C2.10 Manufacture of hydrogen			
Activity Name				
Scope of activity	Manufacture of hydrogen and hydrogen-based synthetic f	fuels.		
Scenario analysis	Scenario 3 – EU and SAT criteria are equally stringent, and	l more than China		
for Multi-	Justification of the scenario selection: EU Taxonomy and S	SAT have equally stringent em	nission intensity threshold, while China taxonomy	
jurisdiction CGT	refers to technical rather than emission standards			
Corresponding	China taxonomy: EU t	taxonomy:	SAT:	
activities	3.2.2.8 Construction and Operation of Hydrogen 3.10) Manufacture of hydrogen	4.4. Manufacture of hydrogen	
	Energy Utilization Facilities			
Multi-jurisdiction	Life cycle GHG emissions from the hydrogen production productin production production pr	rocesses are lower than 3 kg	CO2e/kgH ₂	
CGT substantial				
contribution criteria				
Additional notes	Life-cycle GHG emissions are calculated using Rec	commendation 2013/179/EU	or, alternatively, using ISO 14067:2018 or ISO 14064-	
	1:2018.			
	 Quantified life-cycle GHG emissions are verified b 	by an independent third party	у.	
	Feedstock:			
	Using biomass as a feedstock: Biomass from prim	Using biomass as a feedstock: Biomass from primary sources is not eligible as a feedstock. Wood and other dedicated crops are		
	not eligible (only waste biomass sources are eligible). The biomass used complies with the criteria applicable for biomass sourcing			
	set out in the CGT criteria for bioenergy			
	Using manure-biomethane as a feedstock: Issuers	s must demonstrate MRV (m	onitoring, reporting and verification), and mitigation	
	measures for methane leakages on site and upstr	ream.		
	I he feedstock is not coal or coal derivatives.			
	Electricity courses used			
	Lising Wind, solar, bydro, goothormal opergy based electric	icity:		
	Benewable energy produced on site must comply	with the most up to date Ta	wonomy criteria for the relevant source of energy	
	 Renewable energy produced on site must comply Issuers must demonstrate the use of only addition 	anal renewable electricity. To	do that issuers can implement the following ontions:	
	1. Renewable-based cantive nower generation or	r 2 A power purchase agree	ment demonstrating a commercial link of the	
	electrolyser with new renewable power capacity:	or 3 Excess of renewable-b	ased electricity that would have been otherwise	
	curtailed.	, of 5. Excess of reflewable-b	ased electricity that would have been otherwise	
	Further, temporal and geographical correlation be	etween the additional renew	vable electricity generation and the electrolyser	
	electricity consumption must be demonstrated. 1	L. Temporal correlation: Issue	ers must demonstrate that the electricity is produced	

and used simultaneously, on a monthly basis, using telemetry measurement techniques. Renewable electricity that has been locally stored can be used as well. 2. Geographic correlation: Issuers must demonstrate physical capacity to transport the electricity from the renewable generation plant to the electricity consumption site. The electricity must not pass a zone of grid congestion.

Using low-carbon electricity

• The carbon intensity of the electricity grid must ensure that the production process is in compliance with the total carbon intensity benchmark for hydrogen

CCS/CCU

- 1. The minimum capture rate from process and energy emission streams should be 90% or emissions reduction at the facility level have to be at least of 50%.
- 2. Issuers must present a quantitative performance report of the CCS operations, including the following information: ontended capture rate capacity, maximum capture rate capacity, annual capture of CO2, annual transport of CO2, annual utilisation of CO2.
- 3. Issuers must demonstrate MRV (monitoring, reporting and verification), and mitigation measures for methane leaks on site and upstream.
- 4. There is evidence that demonstrates the CO2 will be suitably transported in line with the Taxonomy criteria for CCS. Utilisation:
- 5. CO2 must be used for the manufacture of durable products (e.g. construction materials stored in buildings, or recyclable products that will not be incinerated as a final disposal alternative).
- 6. CO2 should not be used for products that release the CO2 immediately when the products are used (such as in urea, carbonated beverages, or fuels)
- 7. CO2 is not used for enhanced oil recovery, and the production of other forms of fossil energy sources.

Number and Activity	C2.11 Manufacture of hydrogen production equipment		
Name			
Scope of activity	Manufacture of hydrogen production equipm	lent	
Scenario analysis for	Scenario 2 – SAT criteria are the most stringer	nt	
Multi-jurisdiction	Justification of the scenario selection: While SAT criteria are more stringent than the EU given that they limit the production pathway to		
CGT	electrolysis, China criteria refer, among other	s, to hydrogen production from natural gas .	
Corresponding	China taxonomy:	EU Taxonomy:	SAT:
activities	3.2.2.8 Construction and Operation of	3.2 Manufacture of equipment for the	4.9 Manufacture of equipment for the
	Hydrogen Energy Utilisation Facilities	production and use of hydrogen	production of hydrogen through electrolysis
Multi-jurisdiction CGT	The economic activity manufactures equipment to produce hydrogen through electrolysis		
substantial			
contribution criteria			

C3. Manufacture of clean energy vehicles and parts

Number and Activity Name	C3.1 Manufacture of key components of new	v energy automobiles and its industrialization	
Scope of activity	The economic activity manufactures low-carbon transport vehicles and their respective key components (excluding air and water transport)		
Scenario analysis for	Scenario 2 – SAT criteria are the most stringe	nt	
Multi-jurisdiction	Justification of the scenario selection: EU and	I SAT focus on the manufacturing of vehicles wi	th zero tailpipe CO2 emissions, but the EU
CGT	has an interim alignment to EURO VI standard till 2025 for certain categories of vehicle. China taxonomy allows for inclusion of plug-in		
	hybrids. Singapore is the only taxonomy that	allows manufacturing of vehicles that have onl	y zero direct (tailpipe) emissions.
Corresponding	China taxonomy:	EU Taxonomy:	SAT:
activities	1.6.1.1 Manufacturing of Key	3.3 Manufacture of low carbon	4.10. Manufacture of low-carbon
	Components of New Energy Vehicles	technologies for transport	technologies for transport
	and its Industrialization	3.18. Manufacture of automotive and	
		mobility components	
Multi-jurisdiction CGT	The economic activity manufactures zero direct (tailpipe) emission vehicles and their respective key components		
substantial	· ·		<i>·</i> · ·
contribution criteria			

Number and Activity	C3.2. 1 Manufacture of low carbon vessels (inland water transport)				
Name					
Scope of activity	Manufacture, repair, maintenance, retrofitting, repurposing and upgrade of low carbon vessels (inland water transport)				
Scenario analysis for	Scenario 2 – SAT criteria are the most string	jent			
Multi-jurisdiction	Justification of the scenario selection: SAT c	riteria only allow for manufacturing of vessels t	hat have zero direct (tailpipe) CO2 emissions,		
CGT	while EU taxonomy allows until the end of 2	2025 manufacturing of vessels that are hybrid o	r dual fuel vessels using at least 50 % of their		
	energy from zero direct (tailpipe) CO2 emission fuels or plug-in power for their normal operation. China taxonomy does not have zero				
	direct (tailpipe) CO2 emissions focus.				
Corresponding	China taxonomy:	EU Taxonomy:	SAT:		
activities	1.6.1.3 Manufacturing of Green Ships	1.6.1.3 Manufacturing of Green Ships 3.3 Manufacture of low carbon 4.10 Manufacture of low-carbon			
	technologies for transport technologies for transport				
Multi-jurisdiction CGT	Activity manufactures vessels that have zero direct tailpipe CO2 emissions				
substantial					
contribution criteria					

Number and Activity	C3.2.2 Manufacture of low carbon vessels (sea and coastal water transport)		
Name			
Scope of activity	Manufacture, repair, maintenance, retrofittin	g, repurposing and upgrade of low carbon vess	sels (sea and coastal water transport)
Scenario analysis for	Scenario 4 – identifiable overlap; stringency o	of criteria is not comparable across taxonomies	
Multi-jurisdiction	Justification of the scenario selection: All taxe	pnomies allow for both the zero GHG emissions	s vessels as well as these that are low
CGT	carbon/energy saving. However, both EU and	SAT use different metrics to define low-carbor	and China taxonomy does not provide
	further definition.		
Corresponding	China taxonomy:	EU Taxonomy:	SAT:
activities	1.6.1.3 Manufacturing of Green Ships	3.3 Manufacture of low carbon	4.10 Manufacture of low-carbon
		technologies for transport	technologies for transport
Multi-jurisdiction CGT	Activity meets criteria of at least one of the a	nalysed taxonomies	
substantial			
contribution criteria			
Common	All taxonomies promote activities that are related to manufacturing of vessels that have zero direct tailpipe CO2 emissions. Otherwise,		
requirements across	the support is oriented at vessels that can prove substantial energy efficiency improvements.		
analysed taxonomies			
	Both EU and SAT taxonomies refer to metrics	designed by IMO and highlight that vessels ca	nnot be dedicated to transporting fossil
	fuels. China taxonomy does not entail guideli	nes on how to define energy-saving.	

C4. Manufacture of recycling equipment

Number and Activity Name	C4.1 Manufacture of equipment for the recy	cling and harmless treatment of food waste		
Scope of activity	Manufacture of equipment for kitchen waste reduction, harmless treatment, and recovery of resources through using food waste to produce biodiesel, organic fertilizer, biogas, and industrial ethanol, etc., including the manufacture of equipment produced for classification and recycling transportation sorting pre-processing and recycling of resources and energy			
Scenario analysis for Multi-jurisdiction CGT	Scenario 4 – identifiable overlap; stringency of criteria is not comparable across taxonomies Justification of the scenario selection: The EU activity does not refer to specific technologies as does China taxonomy, however it requires substantial life-cycle GHG emission savings. There is no corresponding SAT activity			
Corresponding activities	China taxonomy: 1.5.1.4 Manufacturing of Equipment for the Recycling and Harmless Treatment of Food Waste	EU Taxonomy: 3.6. Manufacture of other low carbon technologies	SAT: Activity is not in SAT	
Multi-jurisdiction CGT substantial contribution criteria	Activity meets criteria of at least one of the a	N/A		
Common requirements across analysed taxonomies	The economic activity manufactures technologies demonstrate substantial life-cycle GHG emission savings compared to the best performing alternative technology/product/solution available on the market.		N/A	
Additional notes	Life-cycle GHG emission savings are calculate 1:201898	d using ISO 14067:201897 or ISO 14064-	N/A	

Number and Activity Name	C4.2 Manufacture of facilities for resource re	ecycle and reuse	
Scope of activity	Manufacture of equipment for kitchen waste reduction, harmless treatment, and recovery of resources through using food waste to produce biodiesel, organic fertilizer, biogas, and industrial ethanol, etc., including the manufacture of equipment produced for classification and recycling, transportation, sorting, pre-processing, and recycling of resources and energy.		
Scenario analysis for	Scenario 4 – identifiable overlap; stringency o	of criteria is not comparable across taxonomies	6
Multi-jurisdiction	Justification of the scenario selection: The EU	activity does not refer to specific technologies	s as does China taxonomy, however it requires
CGT	substantial life-cycle GHG emission savings. T	here is no corresponding SAT activity	
Corresponding	China taxonomy:	EU Taxonomy:	SAT:
activities	1.5.1.6 Manufacturing of Facilities for	3.6. Manufacture of other low carbon	Activity is not in SAT
	Resources Recycle and Reuse	technologies	
Multi-jurisdiction CGT	Activity meets criteria of at least one of the a	nalysed taxonomies	N/A
substantial			
contribution criteria			
Common	The economic activity manufactures technology	ogies demonstrate substantial life-cycle GHG	N/A
requirements across	emission savings compared to the best performed		
analysed taxonomies	technology/product/solution available on the		
Additional notes	Life-cycle GHG emission savings are calculate 1:201898	N/A	
	China taxonomy references the following guid		
	The Technological Guidance for Recycle and F		
	the Labels for Recyclable Products and Parts (GB/T 23384), the General Requirements and		
	Labels for Recycled and Remanufactured Proc		
	Oxidation Resistance of Nitrogen Oxide Mate	rials -Variable Temperature Oxidation (GB/T	
	32329) and other national standards		

Number and Activity	C4.3 Manufacture of facilities for the recycling and harmless treatment of agricultural and forestry residues			
Name				
Scope of activity	Manufacture of equipment for the recycling and harmless treatment of agricultural and forestry residues, which produce fermented			
	feed, biogas, bio-natural gas, solid fuel, and o	rganic fertilizers, etc. based on using agricultur	al and forestry wastes such as straw, livestock	
	and poultry feces, and rural toilet feces, etc.			
Scenario analysis for	Scenario 4 – identifiable overlap; stringency c	of criteria is not comparable across taxonomies		
Multi-jurisdiction	Justification of the scenario selection: The EU	activity does not refer to specific technologies	as listed China taxonomy, however it	
CGT	requires substantial life-cycle GHG emission savings. There is no corresponding SAT activity			
Corresponding	China taxonomy:	EU Taxonomy:	SAT:	
activities	1.5.1.8 Facilities for the Recycling and Eco-	3.6. Manufacture of other low carbon	Activity is not in SAT	
	friendly Treatment of Agro-waste	technologies		
Multi-jurisdiction CGT	Activity meets criteria of at least one of the a	nalysed taxonomies	N/A	
substantial				
contribution criteria				
Common	The economic activity manufactures technologies demonstrate substantial life-cycle GHG N/A			
requirements across	emission savings compared to the best performing alternative			
analysed taxonomies	technology/product/solution available on the	e market.		
Additional notes	Life-cycle GHG emission savings are calculated	d using ISO 14067:201897 or ISO 14064-	N/A	
	1:201898			

C5. Manufacture of energy-saving equipment

Number and Activity	C5.1 Manufacture of energy-saving furnace/	kiln		
Name				
Scope of activity	Manufacture of metallurgical heating furnaces, non-electric metal treatment furnaces, industrial electric furnaces, industrial kiln and			
	other energy-saving furnaces/kiln using vario	other energy-saving furnaces/kiln using various energy-efficient technologies.		
Scenario analysis for	Scenario 4 – identifiable overlap; stringency o	of criteria is not comparable across taxonomies		
Multi-jurisdiction	Justification of the scenario selection: The EU	activity does not refer to specific technologies	as does China taxonomy, however it requires	
CGT	substantial life-cycle GHG emission savings. T	here is no corresponding SAT activity		
Corresponding	China taxonomy:	EU Taxonomy:	SAT:	
activities	1.1.1.2 Energy-saving Furnace	3.6. Manufacture of other low carbon	Activity is not in SAT	
	1.1.2.3 The Utilization of Waste Heat and	technologies		
	Pressure			
	1.1.2.5 The Systematic Improvement in			
	Energy Efficiency of Steam Turbine			
	Generator Sets			
	1.1.2.1 The Energy-saving Transformation			
	and Energy-efficient Upgrade of Boiler			
	(Furnace)			
Multi-jurisdiction CGT	Activity meets criteria of at least one of the a	nalysed taxonomies	N/A	
substantial				
contribution criteria				
Common	The economic activity manufactures technologies demonstrate substantial life-cycle GHG		N/A	
requirements across	emission savings compared to the best performing alternative			
analysed taxonomies	technology/product/solution available on the market.			
Additional notes	Life-cycle GHG emission savings are calculate	d using ISO 14067:201897 or ISO 14064-	N/A	
	1:201898.			
	Quantified life-cycle GHG emission savings ar	e verified by an independent third party.		

Number and Activity Name	C5.2 Manufacture of high-efficient energy-s	aving household appliances	
Scope of activity	Manufacture of household appliances such a machines, flat-screen TVs, electric fans, etc.	as energy-saving air conditioners, air-conditioni	ng units, refrigerators, electric washing
Scenario analysis for Multi-jurisdiction CGT	Scenario 4 – identifiable overlap; stringency of criteria is not comparable across taxonomies Justification of the scenario selection: All taxonomies refer to respective regional/national energy efficiency regulations for household appliances.		
Corresponding activities	China taxonomy: 1.1.1.1 Energy-saving Boilers 1.1.1.1 High-Efficient Energy-saving Domestic Appliances 1.1.1.13 High-Efficient Lighting Products and Systems 1.1.1.12 High-Efficient Energy-saving Commercial Facilities	EU Taxonomy: 3.5 Manufacture of energy efficiency equipment for buildings 3.6 Manufacture of other low carbon technologies	SAT: 4.12. Manufacture of other low-carbon technologies for household sector
Multi-jurisdiction CGT substantial contribution criteria	Activity meets criteria of at least one of the analysed taxonomies		
Common requirements across analysed taxonomies	All taxonomies refer to their respective energy efficiency standards for household appliances, requiring in most cases that the appliance meets the highest possible class.		

Number and Activity	C5.3 Manufacture of energy-saving pumps a	nd vacuum equipment	
Scope of activity	Manufacture of energy-saving pumps, energy-saving vacuum drying equipment, energy-saving vacuum kiln and other relevant equipment.		
Scenario analysis for Multi-iurisdiction	Scenario 2 – China criteria are the most stringent		
CGT	corresponding SAT activity		ser each type of parity. There is no
Corresponding	China taxonomy:	EU Taxonomy:	SAT:
activities	1.1.1.3 Manufacturing of Energy-saving	3.5 Manufacture of energy efficiency	Activity is not in SAT
	Pumps and Vacuum Equipment	equipment for buildings	
		3.6 Manufacture of other low-carbon	
		technologies	
Multi-jurisdiction CGT	The energy efficiency of energy-saving pumps	s should meet or exceed Level 1 of energy	N/A
substantial	efficiency standards or relevant energy saving evaluation levels, including the		
contribution criteria	Minimum Allowable Values of Energy Efficiency and Evaluating Values of Energy		
	Conservation of Centrifugal Pump for	r Fresh Water (GB19762),	
	 Minimum Allowable Values of Energy 	y Efficiency and Energy Efficiency Grades for	
	Petrochemical Centrifugal Pumps (GI	B 32284)	
	 Minimum Allowable Values of Energy 	y Efficiency and Energy Efficiency Grades for	
	Submersible Pumps for Deep Well (G	iB 32030),	
	 Minimum Allowable Values of Energy 	y Efficiency and Energy Efficiency Grades for	
	Small-size Submersible Motor-pump	s (GB32029)	
	Minimum Allowable Values of Energy	y Efficiency and Energy Efficiency Grades for	
	Waste Submersible Motor-pumps (G	B32031)	

Number and Activity	C5.4 Manufacture of energy-saving gas comp	pression equipment	
Name			
Scope of activity	Manufacture of energy-saving air compressor	s, compressors for air conditioners and other r	elevant equipment.
Scenario analysis for	Scenario 2 – China criteria are the most string	gent	
Multi-jurisdiction	Justification of the scenario selection: China t	axonomy has specific reference to energy effic	iency standards. There is no corresponding
CGT	SAT activity		
Corresponding	China taxonomy:	EU Taxonomy:	SAT:
activities	1.1.1.4 Manufacturing of Energy-saving Gas		Activity is not in SAT
	Compression Equipment	3.6 Manufacture of other low-carbon	
		technologies	
Multi-jurisdiction CGT	The energy efficiency of the equipment shoul	d meet or exceed Level 1 of the national	N/A
substantial	standards including the:		
contribution criteria	 Energy Efficiency Limits and Evaluation Value of Energy Conservation for Positive 		
	Displacement Air Compressors (GB 1	9153)	
	 Energy Efficiency Limits and Grades of 	of Fully Enclosed Motor Compressor for Air	
	Conditioners (GB 35971).		

Number and Activity Name	C5.5 Manufacture of energy-saving hydrauli	c and pneumatic pressure equipment	
Scope of activity	Manufacture of energy-saving hydraulic and p	oneumatic power generation machinery and co	omponents
Scenario analysis for	Scenario 4 – identifiable overlap; stringency o	of criteria is not comparable across taxonomies	
Multi-jurisdiction	Justification of the scenario selection: The EU	activity does not refer to specific technologies	as does China taxonomy, however it requires
CGT	substantial life-cycle GHG emission savings. T	here is no corresponding SAT activity	
Corresponding	China taxonomy:	EU Taxonomy:	SAT:
activities	1.1.1.5 Energy-saving Hydraulic and	3.6 Manufacture of other low carbon	Activity is not in SAT
	Pneumatic Pressure Equipment	technologies	
Multi-jurisdiction CGT	Activity meets criteria of at least one of the analysed taxonomies		N/A
substantial			
contribution criteria			
Common	The economic activity manufactures technologies that are aimed at and demonstrate		N/A
requirements across	substantial life-cycle GHG emission savings compared to the best performing alternative		
analysed taxonomies	technology/product/solution available on the market.		
Additional notes	Life-cycle GHG emission savings are calculated using Commission Recommendation N/A		N/A
	2013/179/EU96 or, alternatively, ISO 14067:201897 or ISO 14064-1:2018. Quantified life-		
	cycle GHG emission savings are verified by an	independent third party.	

Number and Activity Name	C5.6 Manufacture of energy-saving blowers	and fans	
Scope of activity	Manufacture of energy-saving ventilator, blower, industrial fan, ventilation hood, circulating air hood and other relevant equipment.		
Scenario analysis for	Scenario 2 – China criteria are the most string	gent	
Multi-jurisdiction	Justification of the scenario selection: China taxonomy has specific reference to energy efficiency standards. There is no corresponding		
CGT	SAT activity		
Corresponding	China taxonomy:	EU Taxonomy:	SAT:
activities	1.1.1.6 Manufacturing of Energy-saving		Activity is not in SAT
	Blowers and Fans	3.6 Manufacture of other low carbon	
		technologies	
Multi-jurisdiction CGT	The energy efficiency of the equipment should meet or exceed Level 1 of the national N/A		N/A
substantial	standards including the:		
contribution criteria	 Energy Efficiency Limits and Energy Saving Evaluation for Ventilators (GB 19761) 		
	Energy Efficiency Limits and Energy Saving Evaluation Value for Centrifugal Blowers (GB		
	28381).		

Number and Activity Name	C5.7 Manufacture of high-efficient generator	r and generator sets	
Scope of activity	Manufacture of energy-saving generators, generator sets and their special parts.		
Scenario analysis for	Scenario 4 – identifiable overlap; stringency o	of criteria is not comparable across taxonomies	
Multi-jurisdiction	Justification of the scenario selection: The EU	activity does not refer to specific technologies	as does China taxonomy, however it requires
CGT	substantial life-cycle GHG emission savings. T	here is no corresponding SAT activity	
Corresponding	China taxonomy:	EU Taxonomy:	SAT:
activities	1.1.1.7 Manufacturing of High-efficient	3.6 Manufacture of other low carbon	Activity is not in SAT
	Generators and Generator Sets	technologies	
Multi-jurisdiction CGT	Activity meets criteria of at least one of the analysed taxonomies		N/A
substantial			
contribution criteria			
Common	The economic activity manufactures technologies that are aimed at and demonstrate		N/A
requirements across	substantial life-cycle GHG emission savings compared to the best performing alternative		
analysed taxonomies	technology/product/solution available on the market.		
Additional notes	Life-cycle GHG emission savings are calculated using Commission Recommendation N/A		N/A
	2013/179/EU96 or, alternatively, ISO 14067:201897 or ISO 14064-1:2018. Quantified life-		
	cycle GHG emission savings are verified by an	independent third party.	

Number and Activity	C5.8 Manufacture of energy-saving motors		
Name			
Scope of activity	Manufacture of energy-saving AC, DC, AC/DC	electrical equipment.	
Scenario analysis for	Scenario 2 – China criteria are the most string	gent	
Multi-jurisdiction	Justification of the scenario selection: China t	axonomy has specific reference to energy effic	iency standards. There is no corresponding
CGT	SAT activity		
Corresponding	China taxonomy:	EU Taxonomy:	SAT:
activities	1.1.1.8 Manufacturing of Energy-saving	3.6 Manufacture of other low carbon	Activity is not in SAT
	Motors	technologies	
Multi-jurisdiction CGT	The energy efficiency of the equipment shoul	d meet or exceed Level 1 of the	N/A
substantial	 Energy Efficiency Limits and Energy S 	aving Evaluation for Motor (GB 18613)	
contribution criteria	Energy Efficiency Limits and Energy Saving Evaluation for Permanent Magnet		
	Synchronous Motor (GB 30253)		
	Energy Efficiency Limits and Energy Saving Evaluation for High Voltage Three-		
	phase Cage Induction Motor (GB 30254)		
	Minimum Allowable Values of Energy Efficiency and Values of Efficiency Grade for		
	Small-power Motors (GB 25958).		
	Other energy-saving electrical equipment should meet the corresponding energy		
	efficiency requirements		

Number and Activity	C5.9 Manufacture of energy-saving transformers, rectifiers, inductors and electric welding machines		
Name			
Scope of activity	Manufacture of energy-saving transformers, r	nutual inductor, static converters, reactors, ind	luctors, frequency converters, welding
	machines and other equipment.		
Scenario analysis for	Scenario 2 – China criteria are the most string	jent	
Multi-jurisdiction	Justification of the scenario selection: China taxonomy has specific reference to energy efficiency standards. There is no corresponding		
CGT	SAT activity		
Corresponding	China taxonomy:	EU Taxonomy:	SAT:
activities	1.1.1.9 Manufacturing of Energy-saving	3.6 Manufacture of other low carbon	Activity is not in SAT
	Transformers, Rectifiers, Inductors, and	technologies	
	Electric Welding Machines	6	
Multi-jurisdiction CGT	The energy efficiency of energy-saving electrical transformers should meet or exceed Level		N/A
substantial	1 of the		
contribution criteria	Energy Efficiency Limits and Energy Saving Evaluation for Power Transformers (GB		
	20052)		
	Minimum Allowable Values of Energy Efficiency and Energy Efficiency Grades for		
	AC Contactors (GB 21518)		
	Other energy-saving transformers and reactor	rs should meet the corresponding energy	
	efficiency requirements.		

Number and Activity Name	C5.10 Manufacture of residual heat, pressure	e and gas utilization facilities		
Scope of activity	Manufacture of residual heat highly-recovering device for low-temperature flue gas, residual heat utilization device for the kiln,			
	high-efficient condenser, and other relevant equipment.			
Scenario analysis for	Scenario 2 – China criteria are the most stringent			
Multi-jurisdiction	Justification of the scenario selection: China taxonomy has specific reference to energy efficiency standards.			
CGT	There is no corresponding SAT activity			
Corresponding	China taxonomy: EU Taxonomy: SAT:			
activities	1.1.1.10 Manufacturing of Residual Heat,	3.6 Manufacture of other low carbon	Activity is not in SAT	
	Pressure and Gas Exploitation Facilities	technologies		
Multi-jurisdiction CGT	The energy efficiency of the heat exchanger shall meet the requirements of the Energy N/A		N/A	
substantial	Efficiency Test and Evaluation Regulation for Heat Exchanger (TSG R0010).			
contribution criteria	The utilization of residual energy should be carried out in accordance with the			
	requirements of the Evaluation Method of Industrial Residual Energy Resource (GB/T			
	1028) and relevant national standards.			

Number and Activity Name	C5.11 Manufacture of energy efficiency equ	ipment for buildings	
Scope of activity	Manufacture of energy-saving ventilator, blower, industrial fan, ventilation hood, circulating air hood and other relevant equipment.		
Scenario analysis for	Scenario 4 – identifiable overlap; stringency o	of criteria is not comparable across taxonomies	
CGT	efficiency standards.	EO and SAT criteria substantially overlap, nowe	ever each refer to their respective energy
Corresponding	China taxonomy:	EU Taxonomy:	SAT:
activities	1.1.1.6 Manufacturing of Energy-saving Blowers and Fans 1.1.1.11 Manufacturing of High-efficient and Energy-saving Household Appliances 1.1.1.12 Manufacturing of High-efficient and Energy-saving Commercial Appliances 1.1.1.13 Manufacturing of High-efficient Lighting Products and Systems 1.1.1.14 Manufacturing of Energy Measuring, Monitoring and Controlling	3.5 Manufacture of energy efficiency equipment for buildings	4.11. Manufacture of energy efficiency equipment for buildings
Multi-jurisdiction CGT substantial	Activity meets criteria of at least one of the a	Inalysed taxonomies	
Common	The economic activity manufactures one or r	nore of the following products and their key co	omponents:
requirements across	a) household appliances falling into the high	est two classes of energy efficiency in accordan	ice with local market standards
analysed taxonomies	b) light sources rated in the highest two class	ses of energy efficiency in accordance with loca	Il market standards
	c) space neating and domestic not water syst standards	ems rated in the highest two classes of energy	emciency in accordance with local market
	d) cooling and ventilation systems rated in th	e highest two classes of energy efficiency in ac	cordance with local market standards
	 e) presence and daylight controls for lighting f) heat numps 	systems;	
	g) façade and roofing elements with a solar s h) energy-efficient building automation and d	hading or solar control function, including thos control systems for residential and non-residen	se that support the growing of vegetation; tial buildings;

i) zoned thermostats and devices for the smart monitoring of the main electricity loads or heat loads for buildings, and sensoring
equipment;
j) products for heat metering and thermostatic controls for individual homes connected to district heating systems, for individual flats
connected to central heating systems serving a whole building, and for central heating systems;
k) district heating exchangers and substations compliant with the district heating/cooling distribution activity set out in the respective
taxonomies
l) products for smart monitoring and regulating of heating system, and sensoring equipment
Number and Activity

Name
Scope of activity
Scenario analysis for
Multi-jurisdiction
CGT
Corresponding
activities
Multi-jurisdiction CGT
substantial
contribution criteria
Common
requirements across
analysed taxonomies

Number and Activity	C5.13 Manufacture of high-efficiency light-emitting diode (LED) products and systems		
Name			
Scope of activity	Manufacture of light-emitting diode LED in the semiconductor lighting industry chain.		
Scenario analysis for	Scenario 4 – identifiable overlap; stringency c	of criteria is not comparable across taxonomies	
Multi-jurisdiction	Justification of the scenario selection: China t	axonomy has specific reference to energy effic	iency standards, EU taxonomy requires
CGT	substantial life-cycle GHG emission savings. T	here is no corresponding SAT activity	
Corresponding	China taxonomy:	EU Taxonomy:	SAT:
activities	1.1.1.7 Manufacturing of High-efficient	3.6 Manufacture of other-low carbon	Activity is not in SAT
	Generators and Generator Sets	technologies	
Multi-jurisdiction CGT	Activity meets criteria of at least one of the a	nalysed taxonomies	N/A
substantial			
contribution criteria			
Common	The energy efficiency of the products should	meet Level 1 of relevant energy efficiency	N/A
requirements across	standards, such as the		
analysed taxonomies	 standards, such as the Energy Efficiency Limits and Grades of LED Products for Indoor Lighting (GB 30255), Energy Efficiency Limits and Grades of LED Luminaires for Road and Tunnel Lighting (GB 37478), Energy Efficiency Limits and Grades of LED Flat Lamp for General Lighting (GB 38450), Energy Efficiency Limits and Grades of LED Flat Lamp for Tube Fluorescent Lamp (GB 17896), OR 		
Additional notes	Life-cycle GHG emission savings are calculate	d using Commission Recommendation	N/A
	2013/179/EU96 or, alternatively, ISO 14067:2	01897 or ISO 14064-1:2018.	
	Quantified life-cycle GHG emission savings an	e verified by an independent third party	

D: Electricity, gas, steam and air conditioning supply

ISIC Mapping

ISIC Section	ISIC Division	Common Ground Taxonomy category
D. Electricity, gas, steam and	35. Electricity, gas, steam and air conditioning	D1. Electric power generation, transmission and distribution
air conditioning supply	supply	
	35. Electricity, gas, steam and air conditioning	D2. Steam and air conditioning supply
	supply	

D1. Electric power generation, transmission and distribution

Number and Activity Name	D1.1 Electricity generation using solar photo	voltaic technology	
Scope of activity	Operation of electricity generation facilities the	hat produce electricity using solar photovoltaic	(PV) technology.
Scenario analysis for	Scenario 2 – China criteria are the most string	gent	
Multi-jurisdiction	Justification of the scenario selection: While i	n both the EU and SAT taxonomies all activities	related to power generation from solar PV
CGT	technology are directly eligible, China taxono	my requires the technology used for solar pow	er generation to meet certain efficiency
	thresholds.		
Corresponding	China taxonomy:	EU taxonomy:	SAT:
activities	3.2.2.2 Construction and Operation of Solar	4.1. Electricity generation using solar	1.1. Electricity generation using solar PV
	Power Facilities	photovoltaic technology	and CSP (including electricity, heat, cool)
Multi-jurisdiction CGT	The component products selected for solar pl	hotovoltaic power generation facilities should r	meet the following requirements:
substantial	 The minimum photoelectric conversi 	on efficiency of polycrystalline silicon cells and	monocrystalline silicon cells shall not be less
contribution criteria	than 19% and 21% respectively;		
	The minimum photoelectric conversi	on efficiency of polycrystalline silicon cell mod	ules and single crystal silicon battery modules
	shall not be less than 17% and 17.8%	respectively;	
	3) The minimum photoelectric conversion efficiency of silicon-based, CIGS, CdTe and other thin-film battery modules shall not be		
	less than 12%, 14% , 14% , 12% ;		
	The decay rates of polycrystalline sil	icon battery modules and monocrystalline silic	con battery modules shall not be higher than
	2.5% and 3% in the first year, and n	ot higher than 0.7% per year, and not higher	than 20% within the period of 25 years; the
	attenuation rate of thin-film battery n	nodule shall not be more than 5% in the first yea	ar, no more than 0.4% per year in the following
	year, no more than 15% within the p	eriod of 25 years.	

Number and Activity Name	D1.2 Electricity generation using concentrated solar power (CSP) technology		
Scope of activity	Electricity generation using concentrated solar power (CSP) technology.		
Scenario analysis for Multi-jurisdiction CGT	Scenario 1 – alignment across taxonomies Justification of the scenario selection: All taxonomies have the same criteria		
Corresponding activities	China taxonomy: 3.2.2.2 Construction and Operation of Solar Power Facilities	EU taxonomy: 4.2. Electricity generation using concentrated solar power (CSP) technology	SAT: 1.1. Electricity generation using solar PV and CSP (including electricity, heat, cool)
Multi-jurisdiction CGT substantial contribution criteria	All activities within the scope are directly eligible		

Number and Activity Name	D1.3 Electricity generation from wind power		
Scope of activity	Operation of electricity generation facilities that produce electricity from wind power.		
Scenario analysis for Multi-jurisdiction CGT	Scenario 1 – alignment across taxonomies Justification of the scenario selection: All taxonomies have exactly the same criteria		
Corresponding activities	China taxonomy: 3.2.2.1 Construction and Operation of Wind Generators	EU taxonomy: 4.3 Electricity generation from wind power	SAT: 1.2 Electricity generation from wind power
Multi-jurisdiction CGT substantial contribution criteria	All activities within the scope are directly eligible		

Number and Activity Name	D1.4 Electricity generation from ocean energy technologies		
Scope of activity	Operation of electricity generation facilities that produce electricity from ocean energy including g marine tidal energy, wave energy, tidal current energy, temperature difference energy, salt difference energy and other resources		
Scenario analysis for Multi-jurisdiction CGT	Scenario 1 – alignment across taxonomies Justification of the scenario selection: All taxonomies have exactly the same criteria		
Corresponding activities	China taxonomy: 3.2.2.7 Construction and Operation of marine energy utilization facilities	EU taxonomy: 4.4. Electricity generation from ocean energy technologies	SAT: 1.6 Electricity generation from ocean energy
Multi-jurisdiction CGT substantial contribution criteria	All activities within the scope are directly eligible		

Number and Activity Name	D1.5 Electricity generation from hydropower		
Scope of activity	Operation of electricity generation facilities that produce electricity from hydropower.		
Scenario analysis for	Scenario 3 – EU and SAT criteria are equally s	tringent, and more than China	
Multi-jurisdiction	Justification of the scenario selection: While h	both the EU and SAT taxonomies have the same	e explicit quantitative requirements, China
CGT	taxonomy does not specify detailed requirem	ents.	
Corresponding activities	China taxonomy: 3.2.2.4 Construction and operation of large- scale hydropower facilities	EU taxonomy: 4.5 Electricity generation from hydropower	SAT: 1.3 Electricity generation from hydropower
Multi-jurisdiction CGT substantial contribution criteria	The activity complies with either of the following criteria: (a) the power density of the electricity generation facility is above 5 W/m2; (b) the life-cycle GHG emissions from the generation of electricity from hydropower, are lower than 100gCO2e/kWh.		
Additional notes	Methodology for life-cycle assessment: The li alternatively, using ISO 14067:2018, ISO 1406 independent third party.	fe-cycle GHG emissions are calculated using Re 4-1:2018 or the G-res tool. Quantified life-cycle	commendation 2013/179/EU or, e GHG emissions are verified by an

Number and Activity Name	D1.6 Electricity generation from bio-energy		
Scope of activity	Operation of electricity generation installations that produce electricity exclusively from biomass, biogas or bioliquids wastes, excluding electricity generation from blending of renewable fuels with biogas or bioliquids		
Scenario analysis for Multi-jurisdiction CGT	Scenario 4 – identifiable overlap; stringency of criteria is not comparable across taxonomies Justification of the scenario selection: Most of the criteria in all of the taxonomies are qualitative and refer either to national or regional regulations or guidelines as well as standards. As it is currently challenging to compare stringency of the substantial contribution criteria across taxonomies, it is more practical to map the common requirements of the presented criteria.		
Corresponding activities	China taxonomy: 3.2.2.3 Construction and operation of biomass energy utilization facilities	EU taxonomy: 4.8. Electricity generation from bio-energy	SAT: 1.5. Electricity generation from bioenergy power
Multi-jurisdiction CGT substantial contribution criteria	Activity meets criteria of at least one of the analysed taxonomies		
Common requirements across analysed taxonomies	Common requirements across analysed taxonomies: 1) Biofuels, bioliquids and biomass fuels produced from waste and residues derived not from forestry but from agricultural land shall be taken into account only (i) where operators have monitoring or management plans in place in order to address the impacts on soil quality and soil carbon; (ii) when not made from raw material obtained from land with a high biodiversity value , (iii) when not made from raw material obtained from land with high-carbon stock, (iv) when not made from raw material obtained from land that was peatland , unless evidence is provided that the cultivation and harvesting of that raw material does not involve drainage of previously undrained soil. 2) Biofuels, bioliquids and biomass fuels produced from forest biomass aim to minimize the risk of using forest biomass derived from unsustainable production 3) Biofuels, bioliquids and biomass fuels produced from forest biomass can be considered only if management systems are in place at forest sourcing area level to ensure that carbon stocks and sinks levels in the forest are maintained, or strengthened over the long term. 4) Biofuels, bioliquids and biomass fuels produced from waste and residues, other than agricultural, aquaculture, fisheries and forestry residues, including municipal waste, are only required to fulfill the emission intensity criteria in point (5). 5) Emission intensity measured during the life cycle of the power plant is less than 100gCO2e/kWh or greenhouse gas emission		

Number and Activity Name	D1.7 Electricity generation from geothermal energy		
Scope of activity	Operation of electricity generation facilities that produce electricity from geothermal energy.		
Scenario analysis for	Scenario 3 – EU and SAT criteria are equally stringent, and more than China		
Multi-jurisdiction	Justification of the scenario selection: Both th	ne EU taxonomy and SAT have explicit quantitat	rive requirements for geothermal energy
CGT	GHG emission intensity threshold, China taxonomy does not have the threshold.		
Corresponding activities	China taxonomy: 3.2.2.6 Construction and Operation of geothermal energy utilization facilities	EU taxonomy: 4.6 Electricity generation from geothermal energy	SAT: 1.4. Electricity generation from geothermal energy
Multi-jurisdiction CGT substantial contribution criteria	Life-cycle GHG emissions from the generation of electricity from geothermal energy are lower than 100gCO2e/kWh.		
Additional notes	Life-cycle GHG emission savings are calculate Quantified life-cycle GHG emissions are verifi	d using ISO 14067:2018 or ISO 14064-1:2018. ed by an independent third party.	

Number and Activity Name	D1.8 Electricity generation from hydrogen or its derivatives (e.g. ammonia)		
Scope of activity	Operation of electricity generation facilities that produce electricity using hydrogen or its derivatives of renewable origin. This activity does not include electricity generation from the exclusive use of biogas and bio-liquid fuels		
Scenario analysis for Multi-jurisdiction CGT	Scenario 2 – EU criteria are the most stringent Justification of the scenario selection: EU Taxonomy has more requirements such as these pertaining to abatement and methane leakage, compared to SAT that focuses only on emissions intensity threshold. China taxonomy does not introduce quantitative GHG emissions threshold.		
Corresponding activities	China taxonomy: 3.2.2.8 Construction and Operation of Hydrogen Energy Utilization Facilities	EU taxonomy: 4.7. Electricity generation from renewable non-fossil gaseous and liquid fuels	SAT: 1.11. Electricity generation from hydrogen or its derivatives (e.g.ammonia)
Multi-jurisdiction CGT substantial contribution criteria	 The activity complies with either of the following criteria: Life-cycle GHG emissions from the generation of electricity using hydrogen or its derivatives are lower than 100gCO2e/kWh. Where facilities incorporate any form of abatement (including carbon capture or use of decarbonised fuels), that abatement activity complies with the criteria set out in the relevant Section of the CGT. Where the CO2 that would otherwise be emitted from the electricity generation process is captured for the purpose of underground storage, the CO2 is transported and stored underground, in accordance with the technical screening criteria set out in in the relevant Section of the CGT. The activity meets either of the following criteria: at construction, measurement equipment for monitoring of physical emissions, such as methane leakage is installed or a leak detection and repair program is introduced; at operation, physical measurement of methane emissions are reported and leak is eliminated. Where the activity blends renewable gaseous or liquid fuels with biogas or bioliquids, the agricultural and/or forest biomass used for the production of the biogas or bioliquids complies with the criteria laid down in the relevant Section of the CGT 		
Additional notes	Life-cycle GHG emissions are calculated based 1:2018169. Quantified life-cycle GHG emissio	d on project-specific data, where available, usir ns are verified by an independent third party.	ng ISO 14067:2018168 or ISO 14064-

Number and Activity Name	D1.9 Electricity generation from fossil gaseous fuels		
Scope of activity	Operation of electricity generation facilities that produce electricity using fossil gaseous fuels. This activity does not include electricity generation from the exclusive use of renewable non-fossil gaseous and liquid fuels and biogas and bio-liquid fuels		
Scenario analysis for Multi-jurisdiction CGT	Scenario 2 – SAT criteria are the most stringent Justification of the scenario selection: SAT has the same, equally stringent criteria imposing 100gCO2e/kWh GHG emissions threshold for all plants regardless of the year of obtaining construction permit, while the EU Taxonomy envisages some flexibility for facilities for which the construction permit is granted by 31 December 2030. China taxonomy does not impose quantitative GHG emissions threshold.		
Corresponding activities	China taxonomy: 3.2.3.1 Construction and Operation of Multi-energy Complementary Projects" 3.2.3.4 Construction and Operation of Distributed Energy Resources (Ders) Projects	EU taxonomy: 4.29. Electricity generation from fossil gaseous fuels	SAT: 1.12. Electricity generation from fossil gaseous fuels
Multi-jurisdiction CGT substantial contribution criteria	 The activity meets the following criteria: Life-cycle GHG emissions from the generation of electricity using fossil gaseous fuels are lower than 100gCO2e/kWh. CCS is eligible as a lever for the activity to meet the GHG emissions threshold 		
Additional notes	Life-cycle GHG emissions are calculated based Quantified life-cycle GHG emissions are verifi	d on project-specific data, using ISO 14067:201 ed by an independent third party.	8 or ISO 14064-1:2018.

Number and Activity Name	D1.10 Storage of electricity		
Scope of activity	Construction and operation of facilities that store electricity and return it at a later time in the form of electricity. The activity includes pumped hydropower storage		
Scenario analysis for Multi-jurisdiction CGT	Scenario 4 – identifiable overlap; stringency of criteria is not comparable across taxonomies Justification of the scenario selection: EU and SAT criteria are equally stringent, both the EU taxonomy and SAT cross-reference criteria are related to the medium of storage (where applicable), whereas China taxonomy puts more emphasis on the intended outcomes of electricity storage and applies its national industrial standards.		
Corresponding activities	China taxonomy: 3.2.3.2 The Operation and Construction of Efficient Energy Storage Facilities 3.2.3.5 The Construction and Operation of Pumped-Storage Power	EU taxonomy: 4.10. Storage of electricity	SAT: 1.9 Storage of electricity
Multi-jurisdiction CGT substantial contribution criteria	Activity meets criteria of at least one of the analysed taxonomies		
Common requirements across analysed taxonomies	All activities within the scope are directly eligible with the exceptions noted below: Chemical energy storage: medium of storage (such as ammonia) complies with the criteria for Manufacture of the corresponding product specified in Section C Hydrogen electricity storage: hydrogen meets the screening criteria specified in section C		

Number and Activity Name	D1.11 Transmission and distribution of e	electricity		
Scope of activity	Operation of transmission systems that transport the electricity on the extra high-voltage and high-voltage interconnected system. Operation of distribution systems that transport electricity on high-voltage, medium-voltage and low-voltage distribution systems.			
Scenario analysis for Multi-jurisdiction CGT	Scenario 2 – EU criteria are the most stringent Justification of the scenario selection: While in the EU all GHG emissions threshold requirements are on the life-cycle basis, SAT criteria in selected case allow for the calculation of the GHG emissions intensity on the Product Carbon Footprint basis. Both taxonomies, unlike China taxonomy have quantitative thresholds that increase the level of ambition.			
Corresponding activities	China taxonomy: 3.1.1.2 Construction and Operation of Smart Grids 3.2.3.1 Construction and Operation of Multi-energy Complementary Projects 5.1.1.2 Operation and Upgrade of Urban Power Facility into Smart Power Facilities	EU taxonomy: 4.9. Transmission and distribution of electricity	SAT: 1.7. Transmission and distribution of electricity	
Multi-jurisdiction CGT substantial contribution criteria	 Facilities The activity complies with one of the following criteria: (a) Construction and operation of direct connection, or expansion of existing direct connection, of low carbon electricity generation below the threshold of 100 g CO2e/kWh measured on a life cycle basis to a substation or network (b) The transmission and distribution infrastructure or equipment is in an electricity system that complies with the following criteria: more than 67% of newly enabled generation capacity in the system is below the generation threshold value of 100 gCO2e/kWh measured on a life cycle basis in accordance with electricity generation criteria, over a rolling five-year period; (c) The transmission and distribution infrastructure or equipment is in an electricity system that complies with the following criteria: the average system grid emissions factor, calculated as the total annual emissions from power generation connected to the system, divided by the total annual net electricity production in that system, is below the threshold value of 100 gCO2e/kWh measured on a life cycle basis in accordance with electricity generation criteria, over a rolling five-year period; 			

Number and Activity Name	D1.12 Transmission and distribution of renewable and low-carbon gases, including but not limited to low-carbon hydrogen and its derivatives such as ammonia		
Scope of activity Scenario analysis for Multi-jurisdiction CGT	Conversion, repurposing or retrofit of gas networks for the transmission and distribution of renewable and low-carbon gases. Scenario 3 – EU and SAT criteria are equally stringent Justification of the scenario selection: EU and SAT criteria are equally stringent. There is no corresponding China activity		
Corresponding activities	China taxonomy: Activity is not in the China taxonomy	EU taxonomy: 4.14. Transmission and distribution networks for renewable and low-carbon gases	SAT: 1.8. Transmission and distribution of renewable and low-carbon gases
Multi-jurisdiction CGT substantial contribution criteria	N/A	gases1. The activity consists in one of the following:• construction or operation of new transmission and distribution networks dedicated to hydrogen or other low-carbon gases;• conversion/repurposing of existing natural gas networks to 100% hydrogen;• retrofit of gas transmission and distribution networks that enables the integration of hydrogen and other low-carbon gases in the network, including any gas transmission or distribution network activity that enables the increase of the blend of hydrogen or other low carbon gasses in the gas system;2. The activity includes leak detection and repair of existing gas pipelines and other network elements to reduce methane leakage.	

D2. Steam and air conditioning supply

Number and Activity Name	D2.1 District heating and cooling		
Scope of activity	Construction of urban centralized heating facilities using low-grade industrial waste heat sources or other clean heat sources; and energy-saving and environmentally friendly technological renovation activities of urban centralized heating boilers, heating pipe networks and other centralized heating facilities. Construction, refurbishment and operation of pipelines and associated infrastructure for distribution of heating and cooling, ending at the sub-station or heat exchanger.		
Scenario analysis for	Scenario 2 – EU criteria are the most stringent		
Multi-jurisdiction	Justification of the scenario selection: Only the EU Taxonomy has quantitative requirements, by setting thresholds the level of ambition		
CGT	of the EU taxonomy is higher than that of Chi	na taxonomy and SAT.	
	China taxonomy:	EU taxonomy:	SAT:
Corresponding	5.1.1.1 Operation and upgrade of cleaning	4.15. District heating/cooling distribution	1.13 District heating and cooling systems
activities	construction of urban central heating		
	system		
	The activity complies with one of the followir	ng criteria:	
Multi-iurisdiction CGT	(a) construction and operation of pipelines and associated infrastructure for distributing heating and cooling, that are using at least 50 %		
substantial	renewable energy, 50 % waste heat, 75 % cogenerated heat or 50 % of a combination of such energy and heat		
contribution criteria	(b) refurbishment of pipelines and associated	l infrastructure for distributing heating and coc	oling, where the investment that makes the
	system use at least 50 % renewable energy, 5	0 % waste heat, 75 % cogenerated heat or 50 %	% of a combination of such energy and heat
	within a three-year period;		

Number and Activity Name	D2.2 Construction, installation and operation of heat pump facilities			
Scope of activity	Installation and operation of electric heat pumps.			
Scenario analysis for	Scenario 2 – EU criteria are the most stringen	t		
Multi-jurisdiction	Justification of the scenario selection: Only the EU Taxonomy has quantitative requirements, by setting a threshold the level of ambition			
CGT	of the EU taxonomy is higher than that of China taxonomy. There is no corresponding SAT activity.			
Corresponding	China taxonomy:	EU taxonomy:	SAT:	
corresponding	3.2.2.9 Construction and operation of heat	4.16. Installation and operation of electric	Activity is not in SAT	
activities	pump facilities	heat pumps		
	The installation and operation of electric hear	t pumps complies with both of the following	N/A	
Multi-jurisdiction CGT	criteria:			
substantial	(a) refrigerant threshold: Global Warming Potential does not exceed 675;			
contribution criteria	(b) energy efficiency requirements laid down in the implementing regulations under			
	Directive 2009/125/EC are met.			

Number and Activity Name	D2.3 Production of heat/cool from solar thermal heating			
Scope of activity	Operation of facilities producing heat/cool from solar thermal heating technology.			
Scenario analysis for	Scenario 3 – EU and SAT criteria are equally s	Scenario 3 – EU and SAT criteria are equally stringent, and more than China		
Multi-jurisdiction	Justification of the scenario selection: while both the EU and SAT taxonomies have explicit reference to the solar thermal heating, whilst			
CGT	criteria in China taxonomy have broader scope.			
Corresponding activities	China taxonomy: 5.1.1.1 Operation and upgrade of cleaning construction of urban central heating systems 3.2.3.4 Construction and operation of distributed energy resources (Ders) projects	EU taxonomy: 4.21. Production of heat/cool from solar thermal heating	SAT: 1.1. Electricity generation using solar PV and CSP (including electricity, heat, cool)	
Multi-jurisdiction CGT substantial contribution criteria	All activities within the scope are directly elig	ible		

Number and Activity Name	D2.4 Cogeneration of heat/cool and power from solar energy		
Scope of activity	Construction and operation of facilities co-generating electricity and heat/cool from solar energy.		
Scenario analysis for	Scenario 3 – EU and SAT criteria are equally stringent, and more than China		
Multi-jurisdiction	Justification of the scenario selection: while both the EU and SAT taxonomies have explicit reference production of heat/cool using solar		
CGT	thermal heating, whilst criteria in China taxonomy have broader scope.		
Corresponding activities	China taxonomy: 5.1.1.1 Operation and upgrade of cleaning construction of urban central heating systems 3.2.3.4 Construction and operation of distributed energy resources (Ders) projects	EU taxonomy: 4.17. Cogeneration of heat/cool and power from solar energy	SAT: 1.1. Electricity generation using solar PV and CSP (including electricity, heat, cool)
Multi-jurisdiction CGT substantial contribution criteria	All activities within the scope are directly elig	ible	

Number and Activity Name	D2.5 Cogeneration of heat/cool and power from geothermal energy (Production of heat/cool from geothermal energy)				
Scope of activity	Construction and operation of facilities co-ge	Construction and operation of facilities co-generating heat/cool and power from geothermal energy.			
Scenario analysis for	Scenario 3 – EU and SAT criteria are equally st	tringent, and more than China			
Multi-jurisdiction	Justification of the scenario selection: Both th	e EU taxonomy and SAT entail quantitative thr	eshold for GHG emissions intensity which is		
CGT	absent from the requirements in China taxon	omy			
	China taxonomy:	China taxonomy: EU taxonomy: SAT:			
	5.1.1.1 Operation and upgrade of cleaning	4.18. Cogeneration of heat/cool and power	1.4. Electricity generation from geothermal		
Corresponding	construction of urban central heating	from geothermal energy	energy		
activities	systems				
	3.2.3.4 Construction and operation of				
	distributed energy resources (Ders) projects				
Multi-jurisdiction CGT					
substantial	Life cycle emissions from the combined generation of heat/cool and power from geothermal energy are lower than 100gCO2e/kWh.				
contribution criteria					
	Life-cycle GHG emission savings are calculated	d using ISO 14067:2018 or ISO 14064-1:2018.			
Additional notes	Quantified life-cycle GHG emissions are verifi	ed by an independent third party.			

Number and Activity Name	D2.6 Cogeneration of heat/cool and power from renewable non-fossil gaseous and liquid fuels (Production of heat/cool from renewable non-fossil gaseous and liquid fuels)		
Scope of activity	Construction and operation of combined heat/cool and power generation facilities using gaseous and liquid fuels of renewable origin.		
Scenario analysis for Multi-iurisdiction	Scenario 2 – EU criteria are the most stringen	t phomy entails quantitative threshold for GHG e	emissions intensity There is no corresponding
CGT	SAT activity.		
	China taxonomy:	EU taxonomy:	SAT:
	5.1.1.1 Operation and upgrade of cleaning	4.19. Cogeneration of heat/cool and power	Activity is not in SAT
Corresponding	construction of urban central heating	from renewable non-fossil gaseous and	
activities	systems	liquia tueis	
	distributed energy resources (Ders) projects		
Multi-jurisdiction CGT substantial contribution criteria	 distributed energy resources (Ders) projects The activity complies with all of the following criteria: 1. Life-cycle GHG emissions from the co-generation of heat/cool and power are lower than 100gCO2e per 1 kWh of energy output to the co-generation. 2. In addition, if facilities incorporate any abatement (e.g, carbon capture or decarbonized fuels) a. Where the CO2 that would otherwise be emitted from the cogeneration process is captured for the purpose of underground storage, the CO2 is transported and stored underground, in accordance with the substantial contribution criteria set out in: Section X1 and Annex 1.1. 3. The activity meets either of the following criteria: (a) at construction, measurement equipment for monitoring of physical emissions, such as methane leakage is installed or a leak detection and repair program is introduced; (b) at operation, physical measurement of methane emissions are reported and leak is eliminated. 		N/A

		bioliquids, the agricultural biomass used for the production of the biogas or	
		bioliquids complies with the criteria laid down in Section D1.6.	
	Additional notes	Life-cycle GHG emission savings are calculated using ISO 14067:2018 or ISO 14064-1:2018.	
		Quantified life-cycle GHG emissions are verified by an independent third party.	

Number and Activity Name	D2.7 Cogeneration of heat/cool and power from bioenergy (Production of heat/cool from bioenergy)		
Scope of activity	Construction and operation of installations used for cogeneration of heat/cool and power exclusively from biomass, biogas or bioliquids, and excluding cogeneration from blending of renewable fuels with biogas or bioliquids		
Scenario analysis for Multi-jurisdiction CGT	Scenario 4 – identifiable overlap; stringency of criteria is not comparable across taxonomies Justification of the scenario selection: Most of the criteria in all of the taxonomies are qualitative and refer either to national or regional regulations or guidelines as well as standards. As it is currently challenging to compare stringency of the substantial contribution criteria across taxonomies, it is more practical to map the common requirements of the presented criteria.		
Corresponding activities	China taxonomy: 5.1.1.1 Operation and upgrade of cleaning construction of urban central heating systems 3.2.3.4 Construction and operation of distributed energy resources (Ders) projects	EU taxonomy: 4.20. Cogeneration of heat/cool and power from bioenergy 4.24. Production of heat/cool from bioenergy	SAT: 1.5. Electricity generation from bioenergy power
Multi-jurisdiction CGT substantial contribution criteria	Activity meets criteria of at least one of the analysed taxonomies		
Common requirements across analysed taxonomies	Common requirements across analysed taxonomies: 1) Biofuels, bioliquids and biomass fuels produced from waste and residues derived not from forestry but from agricultural land shall be taken into account only (i) where operators have monitoring or management plans in place in order to address the impacts on soil quality and soil carbon; (ii) when not made from raw material obtained from land with a high biodiversity value (iii) when not made from raw material obtained from land with high-carbon stock, ; (iv) when not made from raw material obtained from land that was peatland , unless evidence is provided that the cultivation and harvesting of that raw material does not involve drainage of previously undrained soil. 2) Biofuels, bioliquids and biomass fuels produced from forest biomass aim to minimize the risk of using forest biomass derived from unsustainable production 3) Biofuels, bioliquids and biomass fuels produced from forest biomass can be considered only if management systems are in place at forest sourcing area level to ensure that carbon stocks and sinks levels in the forest are maintained, or strengthened over the long term.		

4) Biofuels, bioliquids and biomass fuels produced from waste and residues, other than agricultural, aquaculture, fisheries and forestry residues, including municipal waste, are only required to fulfill the emission intensity criteria in point (5).
5) Emission intensity measured during the life cycle of the power plant is less than 100gCO2e/kWh or greenhouse gas emission savings from the use of biomass are at least 80 %.

Number and Activity Name	D2.8 Production of heat/cool using waste heat			
Scope of activity	Construction and operation of facilities that p	Construction and operation of facilities that produce heat/cool using waste heat.		
	Scenario 3 – EU and SAT criteria are equally stringent, and more than China			
Scenario analysis for	Justification of the scenario selection: EU and SAT have exactly the same criteria. China taxonomy covers a broader scope. it includes			
Multi-jurisdiction	produce heat/energy not only using waste he	eat, but also using clean energy sources such as	s electricity and natural gas to replace loose	
CGT	coal and decentralized coal-fired boilers to m	eet the requirements of clean heating ,and end	ergy-saving and environmental protection	
	technological transformation of central heati	ng facilities in cities and towns		
	China taxonomy:	EU taxonomy:	SAT:	
	5.1.1.1 Operation and upgrade of cleaning	4.25. Production of heat/cool using waste	1.14. Production of heat or cool from waste	
Corresponding	construction of urban central heating	heat	heat	
activities	systems			
	1.1.2.3 Utilization of residual heat and			
	pressure projects			
Multi-jurisdiction CGT				
substantial	All activities within the scope are directly elig	ible		
contribution criteria				

E: Water supply; sewerage, waste management and remediation activities

ISIC Mapping

ISIC Section	ISIC Division	Common Ground Taxonomy category
E. Water supply; sewerage,	37. Sewerage	E1. Sewage sludge and waste water treatment
waste management and	42 - Civil Engineering	
remediation activities	38. Waste collection, treatment and disposal	E2. Waste collection, treatment and recycling
	activities; materials recovery	
F - Construction	42 - Civil Engineering	
	36 - Water collection, treatment and supply	E3. Water collection, treatment and recycling
	42 - Civil Engineering	

E1. Sewage sludge and waste water treatment

Number and Activity Name	E1.1 Sewage sludge treatment – anaerobic digestion		
Scope of activity	Construction and operation of facilities for the treatment of sewage sludge by anaerobic digestion with the resulting production and		
Scenario analysis for	Scenario 2 – SAT criteria are the most stringent		
CGT	EU and SAT taxonomies explicitly reference	nce qualitative criteria for the treatment of s	sewage sludge by anaerobic digestion, but SAT
	 additionally refers to qualitative criteria for disposal of digestate produced by anaerobic digestion. In China Taxonomy, there is no specific mention to standards or thresholds with regards to sewage sludge treatment. 		
Corresponding	China taxonomy:	EU taxonomy:	SAT:
activities	1.5.3.3 The Integrated Utilization of Sludge	5.6 Anaerobic digestion of sewage	8.3. Biowaste treatment: anaerobic
	from Urban Sewage Treatment Plant	sludge	digestion
Multi-jurisdiction CGT	The activity complies with all of the following cri	teria:	
substantial	1. A monitoring and contingency plan is in place in order to minimise methane leakage at the facility.		
contribution criteria	2. The produced biogas is used directly for the generation of electricity or heat, or upgraded to bio-methane for injection in the		
	natural gas grid, or used as vehicle fuel o	or as feedstock in chemical industry.	
	3. The produced digestate from anaerobic	digestion of sewage sludge will be further p	rocessed and not disposed directly in landfills.
	Incineration is also fine because it allows	s energy recovery, and after incineration this	gets converted to ash which can be landfilled.

Number and Activity Name	E1.2 Construction, extension and operation of waste water collection and treatment		
Scope of activity	Construction, extension and operation of centralised waste water systems including collection (sewer network) and treatment. The activity excludes energy requirements associated with pumping of sewage via Deep Tunnel Sewerage System (DTSS) to the wastewater treatment plant.		
Scenario analysis for Multi-jurisdiction CGT	Scenario 4 – identifiable overlap; stringency of criteria is not comparable across taxonomies Justification of the scenario selection: EU and SAT are equally stringent and explicitly provide quantitative thresholds with regards to energy consumption and distribution loss or leakage level. China taxonomy refers to relevant national standard. Currently, it is not possible to assess the stringency and compare the criteria in EU and SAT with the standards referred in China		
Corresponding	China taxonomy:	EU taxonomy:	SAT:
activities	2.1.2.2 Centralized Treatment of Sewage	5.3 Construction, extension and operation	9.6 Construction, extension and operation
	Water in Industrial-Intensive Zones	of waste water collection and treatment	of wastewater collection and treatment
Multi-jurisdiction CGT substantial contribution criteria	Activity meets criteria of at least one of the analysed taxonomies		
Common requirements across analysed taxonomies	 Energy efficiency are common thresholds in practice. While China refers to its national green industry standards, EU and SAT have similar criteria as below: 1. The net energy consumption of the waste water treatment plant equals to or is lower than: a) 35 kWh per population equivalent (p.e.) per annum for treatment plant capacity below 10 000 p.e.; b) 25 kWh per population equivalent (p.e.) per annum for treatment plant capacity between 10 000 and 100 000 p.e.; c) 20 kWh per population equivalent (p.e.) per annum for treatment plant capacity above 100 000 p.e. Net energy consumption of the operation of the waste water treatment plant may take into account measures decreasing energy consumption relating to source control (reduction of storm water or pollutant load inputs), and, as appropriate, energy generation within the system (such as hydraulic, solar, thermal and wind energy). For the construction and extension of a waste water treatment plant or a waste water treatment plant with a collection system, which are substituting more GHG-intensive treatment systems (such as septic tanks, anaerobic lagoons), an assessment of the direct GHG		

Number and Activity	E1.3 Renewal of waste water collection and treatm	ent	
Name			
Scope of activity	Renewal of centralised waste water systems includir	ng collection (sewer network) and treatment	. It implies no material change
	related to the load or volume of flow collected or tre	eated in the waste water system.	
Scenario analysis for	Scenario 4 – identifiable overlap; stringency of criter	ria is not comparable across taxonomies	
Multi-jurisdiction CGT	Justification of the scenario selection: EU and SAT ta	xonomies explicitly provide quantitative three	esholds with regards to energy
	consumption. China taxonomy refers to relevant nat	ional standard. Currently, it is not possible to	o assess the stringency and compare
	the criteria in EU and Singapore with the standards i	referred in China.	
Corresponding activities	China taxonomy:	EU taxonomy:	SAT:
	2.1.2.2 Centralized Treatment of Sewage Water in	5.4 Renewal of waste water collection	9.7 Renewal of wastewater
	Industrial-Intensive Zones	and treatment	collection and treatment
Multi-iurisdiction CGT	Activity meets criteria of at least one of the analyse	d taxonomies	
substantial contribution	, , , , , , , , , , , , , , , , , , , ,		
criteria			
	China refers to national standards, and EU and Singa	apore commonly refer to quantitative thresh	olds with regards to reduction in
	energy consumption		
Common requirements	SAT focuses on defining specific thresholds for net e	nergy consumption of the wastewater treatr	ment plant based on the treatment
across analysed	shi locuses on denning specific thresholds for het energy consumption of the wastewater treatment plant based on the treatment		
taxonomies			
	ELL Taxonomy focuses on defining the specific percentage threshold, by which the average energy consumption should be decreased		
	compared to own baseline performance averaged over three years, demonstrated on an annual basis.		
Additional notes	SAT's amber criteria refer to 20% threshold for reduction in pet energy consumption, which is similar to ELL taxonomy criteria		
	In the CGT comparison exercise, only the Green crite	eria of SAT of each activity is considered for o	comparison with the criteria of FU
	and China taxonomy		
	The Green criteria of SAT refers to a specific thresho	ld for energy consumption and FLI taxonomy	v criteria refer to a percentage
	threshold for energy consumption reduction based	on a haseline	
	the show for chergy consumption reduction based (
	It is not possible currently to assess the stringency h	etween the approach used to define energy	consumption related threshold in
	the activities of each taxonomy		
	the activities of each taxonomy.		

E2. Waste collection, treatment and recycling

Number and Activity Name	E2.1 Collection and transport of non-hazardous waste in source segregated fractions			
Scope of activity	Separate collection and transport of non-hazardous waste in single or comingled fractions aimed at preparing for reuse or recycling. The activity includes collection of non-hazardous solid waste (i.e. garbage) within a local area, such as collection of waste from households and businesses by means of refuse bins, wheeled bins, containers etc may include mixed recoverable materials This activity also includes operation of waste transfer stations for non-hazardous waste.			
Scenario analysis for Multi-jurisdiction CGT	Scenario 3 – EU and SAT criteria are equally stringent, and more than China Justification of the scenario selection: EU and SAT taxonomies explicitly mention qualitative criteria for collection and transport of non- hazardous waste. On the other hand, China taxonomy refers broadly to recycling of waste with references to national standards regarding construction and operation to recycling facilities. There is no specific mention to standards or thresholds with regards to collection and transport of non-hazardous waste.			
Corresponding activities	China taxonomy:EU taxonomy:SAT:1.5.2.2 The Recycling of Waste and Discarded Resources5.5 Collection and transport of non- hazardous waste in source segregated fractions8.1 Collection and transport of non- hazardous waste in source segregated fractions2.3.1.3 Recycling and Treatment of Packaging Wastefractionshazardous waste in source segregated hazardous waste			
Multi-jurisdiction CGT substantial contribution criteria	 5.3.1.2 Construction and operation of garbage treatment facilities The activity complies with the following criteria: Collection and transportation of non-hazardous waste that is segregated at source or at an intermediate sorting facility that is intended for preparation for reuse or recycling operations, and Includes waste collection containers, transfer stations, transportation vehicles and other related infrastructure 			

Number and Activity Name	E2.2 Recycling non-hazardous waste		
Scope of activity	Construction and operation of facilities for the sorting and processing of separately collected non-hazardous waste streams into secondary raw materials involving mechanical reprocessing, except for backfilling purposes.		
Scenario analysis for Multi-jurisdiction CGT	Scenario 4 – identifiable overlap; stringency of criteria is not comparable across taxonomies Justification of the scenario selection: EU and SAT taxonomies explicitly reference quantitative criteria for the recycling of hazardous waste, and SAT's criteria is currently valid until 2030 with intention to tighten thresholds in future iterations. In China Taxonomy, there is specific mention to national standards with regards to construction and operation of recycling facilities. Currently, it is not possible to assess the stringency and compare the alignment with the relevant thresholds and standards referred in EU, China and SAT.		
Corresponding activities	China taxonomy: 1.5.2.2 The Recycling of Waste and Discarded Resources 1.5.3.1 The Integrated Utilization of Domestic Waste 5.3.1.2 Construction and operation of garbage treatment facilities	EU taxonomy: 5.9 Material recovery from non- hazardous waste	SAT: 8.6 Material recovery facilities
Multi-jurisdiction CGT substantial contribution criteria	Activity meets criteria of at least one of the analysed taxonomies		
Common requirements across analysed taxonomies	EU and Singapore share the common criteria as below, but China refers to national standards The activity converts at least 50 %, in terms of weight, of the processed separately collected non-hazardous waste into secondary raw materials that are suitable for the substitution of virgin materials in production processes.		

Number and Activity Name	E2.3 Composting of domestic and agricultural bio-waste			
Scope of activity	Construction and operation of dedicated facilities for the treatment of separately collected bio- waste through composting (aerobic digestion) with the resulting production and utilisation of compost.			
Scenario analysis for Multi-jurisdiction CGT	 Scenario 2 – SAT criteria are the most stringent Justification of the scenario selection: EU and SAT taxonomies reference the same qualitative criteria for the composting of biowaste, but the SAT explicitly references avoidance of improper mixing or aeration to avoid methane leakage and ensure efficient operations. In China Taxonomy, there is no specific mention to standards or thresholds with regards to composting of biowaste. 			
Corresponding activities	China taxonomy:EU taxonomy:SAT:1.5.3.1 Comprehensive Utilization of Urban and Rural Household Waste5.8 Composting of bio-waste8.2 Biowaste treatment: composting of biowaste1.5.3.2 Recycling and utilization of agricultural waste resourcesagricultural waste resourcesagricultural waste resources			
Multi-jurisdiction CGT substantial contribution criteria	 The activity complies with all of the following criteria: The bio-waste that is composted is source segregated and collected separately. The compost produced is used as fertiliser or soil improver and meets national rules on fertilisers or soil improvers for agricultural use. Ensure efficient operations to avoid methane leakage (e.g., avoid improper aeration or mixing). 			

Number and Activity Name	E2.4 Utilization/ treatment of domestic waste – anaerobic digestion			
Scope of activity	Construction and operation of dedicated facilities for the treatment of separately collected bio-waste through anaerobic digestion with the resulting production and utilisation of biogas and digestate and/or chemicals.			
Scenario analysis for Multi-jurisdiction CGT	 Scenario 2- EU criteria are the most stringent Justification of the scenario selection: EU and SAT taxonomies explicitly reference qualitative criteria for the treatment of domestic bio-waste by anaerobic digestion, but EU additionally provides quantitative criteria for the share of food and feed crops used as input feedstock. In China Taxonomy, there is no specific mention to standards or thresholds with regards to domestic bio-waste treatment. 			
Corresponding activities	China taxonomy: 1.5.3.1 Comprehensive utilization of urban and rural household waste	EU taxonomy: 5.7 Anaerobic digestion of bio-waste	SAT: 8.3 Biowaste treatment: anaerobic digestion	
Multi-jurisdiction CGT substantial contribution criteria	 The activity complies with all of the following criteria: 1. A monitoring and contingency plan is in place in order to minimise methane leakage at the facility. 2. The produced biogas is used directly for the generation of electricity or heat, or upgraded to bio-methane for injection in the natural gas grid, or used as vehicle fuel or as feedstock in chemical industry. 3. The bio-waste that is used for anaerobic digestion is source segregated and collected separately. 4. The produced digestate is used as fertiliser or soil improver, either directly or after composting or any other treatment. 5. In the dedicated bio-waste treatment plants, the share of food and feed crops used as input feedstock, measured in weight, as an annual average, is less than or equal to 10% of the input feedstock. 			

Number and Activity Name	E2.5 Recycling of agricultural waste		
Scope of activity	Construction and operation of resource utilization facilities for agricultural wastes such as crop stalks, livestock and poultry manure, tail vegetables, and primary processing residues of agricultural products. For example, of construction and operation of crop straw biomass fuel facilities, livestock and poultry manure biogas facilities and other related facilities.		
Scenario analysis for Multi-jurisdiction CGT	 Scenario 2 – SAT criteria are the most stringent Justification of the scenario selection: EU and SAT taxonomies reference the same qualitative criteria for the composting of biowaste, but the SAT explicitly references avoidance of improper mixing or aeration to avoid methane leakage and ensure efficient operations. In China Taxonomy, there is no specific mention to standards or thresholds with regards to recycling of agricultural waste. 		
Corresponding activities	China taxonomy: 1.5.3.2 Recycling and utilization of agricultural waste resources	EU taxonomy: 5.8 Composting of bio-waste	SAT: 8.2 Biowaste treatment: composting of biowaste
Multi-jurisdiction CGT substantial contribution criteria	 The activity complies with all of the following criteria: 1. The bio-waste that is composted is source segregated and collected separately. 2. The compost produced is used as fertiliser or soil improver- 3. Ensure efficient operations to avoid methane leakage (e.g., avoid improper aeration or mixing). 		

Number and Activity Name	E2.6 Landfill gas capture and utilisation		
Scope of activity	Installation and operation of infrastructure for landfill gas capture and utilisation in permanently closed landfills or landfill cells using new or supplementary dedicated technical facilities and equipment installed during or post landfill or landfill cell closure.		
Scenario analysis for Multi-jurisdiction CGT	Scenario 3-EU and SAT criteria are equally stringent Justification of the scenario selection: EU and SAT taxonomies explicitly reference the same qualitative criteria for landfill gas capture and utilisation. There is no corresponding China activity.		
Corresponding activities	China taxonomy: Activity is not in China taxonomy	EU taxonomy: SAT: 5.10. Landfill gas capture and utilisation 8.5 Landfill gas capture and utilisation	
Multi-jurisdiction CGT substantial contribution criteria	N/A	 5.10. Landing as capture and utilisation and a station and a station and a station and utilisation and a station and utilisation and a station at the statistical station and a station and a statistical statist	

E3. Water collection, treatment and recycling

Number and Activity Name	E3.1 Construction, extension and operation of water collection, treatment systems (abstraction and treatment systems)				
Scope of activity	Construction, extension and operation of water collection, treatment and supply systems.				
Scenario analysis for	Scenario 4 – identifiable overlap;	; stringency of criteria is not comp	arable across taxonomies		
Multi-jurisdiction CGT	Justification of the scenario selection: The EU and SAT have the same criteria and explicitly provide quantitative thresholds with				
	regards to energy consumption.	China taxonomy refers to relevant	national standard. Currently, it is not possible to assess the		
	stringency and compare the aligr	nment with the relevant threshold	ls and standards referred in EU, China and SAT.		
Corresponding activities	China taxonomy:	China taxonomy: EU taxonomy: SAT:			
	2.4.1.1 The Improvement of	5.1 Construction, extension	9.1 Construction, extension and operation of new water		
	Water Saving and Water Use	and operation of water	collection and treatment systems(abstraction and treatment		
	Efficiency in Production	collection, treatment and	systems)		
		supply systems			
Multi-jurisdiction CGT					
substantial contribution	Activity meets criteria of at least	one of the analysed taxonomies			
criteria					
	EU and Singapore share the common criteria as below, but China refers to national standards				
Common requirements					
across analysed	The net average energy consump	ption for abstraction and treatmen	t equals to or is lower than 0.5 kWh/m3 of water produced for		
taxonomies	supply. Net energy consumption	may consider measures that decre	ease energy consumption, such as source control (pollutant load		
	inputs), and, as appropriate, onsi	ite or offsite energy generation (su	uch as hydraulic, solar and wind energy).		
Number and Activity	E3.2 Renewal of water collection, treatment and supply systems (abstraction and treatment systems)				
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Name					
Scope of activity	Renewal of water collection, treatment and su	pply systems including rene	wals to water collection, treatment and distribution		
	infrastructures for domestic and industrial nee	ds. It implies no material ch	nanges to the volume of flow collected, treated or supplied.		
Scenario analysis for	Scenario 4 – identifiable overlap; stringency of	criteria is not comparable a	across taxonomies		
Multi-jurisdiction	Justification of the scenario selection: EU and S	SAT taxonomies explicitly pr	ovide quantitative thresholds with regards to energy		
CGT	consumption. China taxonomy refers to releva	nt national standard. Currer	ntly, it is not possible to assess the stringency and compare the		
	criteria in EU and Singapore with the standard	s referred in China.			
Corresponding	China taxonomy:	EU taxonomy:	SAT:		
activities	2.4.1.1 The Improvement of Water Saving	5.2 Renewal of water	9.2 Renewal of water collection, treatment and supply		
	and Water Use Efficiency in Production	collection, treatment	systems (abstraction and treatment systems)		
		and supply systems			
Multi-jurisdiction CGT	Activity meets criteria of at least one of the an	alysed taxonomies			
substantial					
contribution criteria					
	China refers to national standards, and EU and	Singapore commonly refer	to quantitative thresholds with regards to reduction in energy		
	consumption.				
Common					
requirements across	SAT focuses on defining specific thresholds for	net energy consumption of	the water treatment plant.		
analysed taxonomies					
	EU Taxonomy focuses on defining the specific p	percentage threshold, by wh	hich the net average energy consumption of the water		
	treatment system should be decreased compa	red to own baseline perforr	nance averaged for three years.		
Additional notes	SAT's amber criteria refer to 20% threshold for	the increase in energy effic	iency, which is similar to EU taxonomy criteria.		
	In the CGT comparison exercise, only the Gree	n criteria of SAT of each acti	ivity is considered for comparison with the criteria of EU and		
	China taxonomy.				
	The Green criteria of SAT refers to a specific th	reshold for energy consump	otion and EU taxonomy criteria refer to a percentage threshold		
	for energy consumption reduction based on a	baseline.			
	It is not possible currently to assess the stringe	ency between the approach	used to define energy consumption related threshold in the		
	activities of each taxonomy.				

Number and Activity Name	E3.3 Construction, extension and	d operation of water collection, tr	reatment and supply systems (distribution networks)
Scope of activity	Construction, extension and operation of water collection, treatment and supply systems.		
Scenario analysis for	Scenario 4 – identifiable overlap; stringency of criteria is not comparable across taxonomies		
Multi-jurisdiction CGT	Justification of the scenario selection: SAT explicitly provide a specific distribution loss threshold and EU provide quantitative		
	thresholds for leakage level using the Infrastructure Leakage Index (ILI) rating method or in accordance with EU legislation. China		
	taxonomy refers to relevant national standard. Currently, it is not possible to assess the stringency and compare the alignment with		
	the relevant thresholds and stan	dards referred in EU, China and SA	Л.
Corresponding activities	China taxonomy:	EU taxonomy:	SAT:
	2.4.1.1 The Improvement of	5.1 Construction, extension	9.3. Construction, extension and operation of water collection,
	Water Saving and Water Use	and operation of water	treatment and supply systems (distribution networks)
	Efficiency in Production	collection, treatment and	
		supply systems	
Multi-jurisdiction CGT			
	Activity meets criteria of at least	one of the analysed taxonomies	
Citteria	China refers to national standard	c and ELL and Singapore common	ly refer to throsholds with regards to reduction in distribution loss
	china refers to national standards, and EO and Singapore commonly refer to thresholds with regards to reduction in distribution loss		
Common requirements			
across analysed	SAT focuses on defining specific t	presholds for distribution loss for	the segment of the network
taxonomies			
	EU Taxonomy focuses on leakage	e level based threshold which is est	tablished either using Infrastructure Leakage Index (ILI) rating
	method or in accordance with th	e relevant EU legislation.	
Additional notes	SAT's amber criteria refer to 20%	threshold for the distribution loss	, but the EU taxonomy criteria refers to 20% reduction of leakage
	level compared to a baseline ave	raged over three years, calculated	using the Infrastructure Leakage Index (ILI) rating method and an
	ILI of 1.5, or in accordance with E	EU legislation.	
	Also, In the CGT comparison exer	rcise, only the Green criteria of SA	T of each activity is considered for comparison with the criteria of
	EU and China taxonomy.		
	Nonetheless, it is not possible cu	rrently to assess the stringency be	etween the threshold for distribution loss in SAT and threshold for
	leakage level in EU as the approa	ch for defining the threshold in EL	J and SAT is not equivalent.

Number and Activity Name	E3.4 Renewal of water collection, treatment a	and supply systems (distribution of the supply systems (distribution of the system of	ution networks)
Scope of activity	Renewal of water collection, treatment and su infrastructures for domestic and industrial nee	pply systems including rene ds. It implies no material ch	wals to water collection, treatment and distribution anges to the volume of flow collected, treated or supplied.
Scenario analysis for Multi-jurisdiction CGT	Scenario 4 – identifiable overlap; stringency of criteria is not comparable across taxonomies Justification of the scenario selection: SAT explicitly provide a specific distribution loss threshold and EU provide quantitative thresholds for leakage level using the Infrastructure Leakage Index (ILI) rating method or in accordance with EU legislation. China taxonomy refers to relevant national standard. Currently, it is not possible to assess the stringency and compare the alignment with the relevant thresholds and standards referred in EU, China and SAT.		
Corresponding activities	China taxonomy: 2.4.1.1 The Improvement of Water Saving and Water Use Efficiency in Production	EU taxonomy: 5.2 Renewal of water collection, treatment and supply systems	SAT: 9.4 Renewal of water collection, treatment, and supply systems (distribution networks)
Multi-jurisdiction CGT substantial contribution criteria	Activity meets criteria of at least one of the analysed taxonomies		
	China refers to national standards, and EU and Singapore commonly refer to thresholds with regards to reduction in distribution loss or leakage level.		
Common requirements across analysed taxonomies	SAT focuses on defining specific thresholds for distribution loss for the segment of the network.		
	EU Taxonomy focuses on leakage level based threshold which is established either using Infrastructure Leakage Index (ILI) rating method or in accordance with the relevant EU legislation.		
Additional notes	SAT's amber criteria refer to 20% threshold for the leakage level, similar to EU taxonomy. In the CGT comparison exercise, only the Green criteria of SAT of each activity is considered for comparison with the criteria of EU and China taxonomy.		
	It is not possible currently to assess the stringe leakage level in EU as the approach for definin	ency between the threshold g the threshold in EU and SA	for distribution loss in SAT Green criteria and threshold for AT is not equivalent.

F: Construction

ISIC Mapping

ISIC Section	ISIC Division	Common Ground Taxonomy category
F, Construction	41. Construction of building	F1. Construction and renovation of buildings
	42. Civil engineering	F2. Construction of transport infrastructure
	43. Specialized construction activities	F3. Electrical, plumbing and other construction installation activities

F1. Construction and renovation of buildings

Number and Activity Name	F1.1 Construction of new buildings		
Scope of activity	Development of building projects for residential and non-residential buildings by bringing together financial, technical and physical means to realize the building projects for later sale as well as the construction of complete residential or non-residential buildings, on own account for sale or on a fee or contract basis.		
Scenario analysis for Multi-jurisdiction CGT	Scenario 4 – identifiable overlap; stringency of criteria is not comparable across taxonomies. Justification of the scenario selection: Both the EU taxonomy and China's regulation on Net Zero Energy Building (NZEB) requires life cycle GHG calculation and disclosure, and the taxonomy activity specifically refers to the reduction of Primary Energy Demand (PED), lower than the threshold set for NZEB requirements. For residential buildings, the calculation and disclosure are made for a representative set of dwelling/apartment types. On the other hand, SAT specifies relevant certifications to ascertain energy performance. Currently, it is not possible to assess the stringency and compare the alignment with the relevant thresholds and standards referred in EU. China and SAT.		
Corresponding activities	China taxonomy: 5.2.1.1 Construction of ultra-low energy consumption buildings 5.2.1.2 Green buildings	EU taxonomy: 7.1 Construction of new buildings	SAT: 3.1. Construction of new buildings
Multi-jurisdiction CGT substantial contribution crite <u>ria</u>	Activity meets criteria of at least one of the analysed taxonomies		
Common requirements across analysed taxonomies	The criteria across the taxonomies refer to relevant national or inter	rnational certifications/ standar	rds, to ascertain energy performance.

Number and Activity	F1.2 Renovation of existing buildings			
Name				
Scope of activity	Energy-saving renovation of existing buildings and energy-use systems of buildings			
Scenario analysis for	Scenario 4 – identifiable overlap; stringency of criteria is r	not comparable across taxonomies		
Multi-jurisdiction	Justification of the scenario selection: In EU, the threshold	d for reduction of Primary Energy Dema	and (PED) is defined. On the other hand,	
CGT	SAT and China specify relevant certifications to ascertain e	energy performance. Currently, it is not	possible to assess the stringency and	
	compare the alignment with the relevant thresholds and	standards referred in EU, China and SAT	Γ.	
Corresponding	China taxonomy:	EU taxonomy:	SAT:	
activities	5.2.1.5 Energy conservation and environmental-friendly	7.2 Renovation of existing buildings	3.3. Renovation of existing buildings	
	renovation of existing buildings			
Multi-jurisdiction CGT	Activity meets criteria of at least one of the analysed taxo	nomies		
substantial				
contribution criteria				
Common	The criteria across the taxonomies refer to relevant nation	nal or international certifications/ stand	lards, to ascertain energy performance.	
requirements across				
analysed taxonomies				
Additional notes	SAT's amber criteria refer to 30% reduction in PED, which	is similar EU taxonomy criteria.		
	The classification of the PED reduction criteria as Amber criteria in SAT is based on preference of certification related criteria for			
	Singapore context.	Singapore context.		
	Additionally, only the Green criteria of each activity in SAT	is considered for the CGT comparison	exercise.	
	Also, it would not be possible currently to assess the strin	gency between Green Mark Certification	on or relevant international standards	
	(SAT Green criteria) and 30% reduction in PED (EU taxono	my criteria).		

Number and Activity	F1.3 Acquisition and ownership of buildings		
Name			
Scope of activity	Energy-saving renovation of existing buildings and energy-use systems of buildings		
Scenario analysis for	Scenario 4 – identifiable overlap; stringency of criteria is not compa	rable across taxonomies	
Multi-jurisdiction	Justification of the scenario selection: In EU and SAT, the threshold	for reduction of Primary Ener	gy Demand (PED) and the certification
CGT	for energy performance is defined. China specifies relevant certifica	tions to ascertain energy per	formance. Currently, it is not possible to
	assess the stringency and compare the alignment with the relevant	thresholds and standards ref	erred in EU, China and SAT.
Corresponding	China taxonomy:	EU taxonomy:	SAT:
activities	5.2.1.1 Construction of ultra-low energy consumption buildings	7.7 Acquisition and	3.4. Acquisition or ownership of
	5.2.1.2 Green buildings	ownership of buildings	buildings
Multi-jurisdiction CGT	Activity meets criteria of at least one of the analysed taxonomies		
substantial			
contribution criteria			
Common	The criteria across the taxonomies refer to relevant national or international certifications/ standards, to ascertain energy performance.		
requirements across			
analysed taxonomies			

F2. Construction of transport infrastructure

Number and Activity Name	F2.1 Infrastructure enabling low-carbon road transport		
Scope of activity	Construction, modernisation, maintenance and operation of infrastructure that is required for zero tailpipe CO2 operation of zero- emissions road transport, as well as infrastructure dedicated to transshipment, and infrastructure required for operating urban transport.		
Scenario analysis for	Scenario 3 – EU and SAT criteria are equally stringent, and more than China.		
Multi-jurisdiction	Justification of the scenario selection: The criteria in EU and SAT are equally st	ringent. Both EU and SAT activiti	es define the criteria for
CGT	infrastructure that is not dedicated to transport or storage of fossil fuels. But t dedicated to transport of fossil fuels, and thus are less stringent.	he corresponding activities in Ch	nina include infrastructure
Corresponding	China taxonomy:	EU taxonomy:	SAT:
activities	3.2.2.8 Construction and operation of hydrogen energy utilization facilities	6.15 Infrastructure enabling	2.5 Low carbon transport
	5.5.4.1 Construction and operation of charging, battery replacement,	low-carbon road transport	infrastructure
	hydrogen refuelling and Gas refuelling Facilities.	and public transport	
	5.5.1.3 The Construction and Operation of Smart Transportation		
	5.5.1.5 The Construction and Operation of Public Transportation System in		
	Urban and Rural Areas		
Multi-jurisdiction CGT	The activity complies with one or more of the following criteria:		
substantial	a) the infrastructure is dedicated to the operation of vehicles with zero	tailpipe CO2 emissions: electric	charging points, electricity
contribution criteria	grid connection upgrades, hydrogen fuelling stations or electric road s	systems (ERS).	
	b) all other solutions related to optimising and/or providing the nece	essary electrical capacity to sup	pport the deployment and
	operation of EV charging solutions.		
	c) the infrastructure and installations are dedicated to transhipping	freight between the modes: t	erminal infrastructure and
	superstructures for loading, unloading and transhipment of goods.		
	d) the infrastructure and installations are dedicated to urban and su	uburban public passenger trans	sport, including associated
	signalling systems for metro, tram and rail systems.		
	In all instances, the infrastructure is not dedicated to the transport or storage	of fossil fuels.	

Number and Activity Name	F2.2 Infrastructure enabling low carbon water transport		
Scope of activity	Construction, modernisation, operation and maintenance of infrastructure that is required for zero tailpipe CO2 operation of vessels or		
	the port's own operations, as well as infrastructure dedicated to t	ransshipment.	
Scenario analysis for	Scenario 3 – EU and SAT criteria are equally stringent, and more t	han China.	
Multi-jurisdiction	Justification of the scenario selection: The criteria in EU and SAT a	are equally stringent. Both EU a	nd SAT activities define the criteria for
CGT	infrastructure that is not dedicated to transport or storage of foss	il fuels. But the corresponding a	activities in China include infrastructure
	dedicated to transport of fossil fuels, and thus are less stringent.		
Corresponding	China taxonomy:	EU taxonomy:	SAT:
activities	5.5.3.1 Construction of power supply facilities at ports, docks	6.16 Infrastructure enabling	2.5. Low carbon transport
	and airport bridges	low carbon water transport	infrastructure
Multi-jurisdiction CGT	The activity complies with one or more of the following criteria:		
substantial	a) the infrastructure is dedicated to the operation of vessels	with zero direct (tailpipe) CO2 e	emissions: electricity charging, hydrogen-
contribution criteria	based refuelling.		
	b) the infrastructure is dedicated to the provision of shore-s	side electrical power to vessels	at berth.
	c) the infrastructure is dedicated to the performance of the port's own operations with zero direct (tailpipe) CO2 emissions.		
	d) the infrastructure and installations are dedicated to transhipping freight between the modes: terminal infrastructure and		
	superstructures for loading, unloading and transhipment	of goods.	
	In all instances, the infrastructure is not dedicated to the transpo	rt or storage of fossil fuels.	

Number and Activity	F2.3 Low carbon airport infrastructure		
Name			
Scope of activity	Construction, modernisation, maintenance and operation of infr	astructure that is required for ze	ro tailpipe CO2 operation of aircraft or
	the airport's own operations, as well as for provision of fixed ele	ctrical ground power and precon	ditioned air to stationary aircraft.
Scenario analysis for	Scenario 3 – EU and SAT criteria are equally stringent, and more	than China.	
Multi-jurisdiction	Justification of the scenario selection: The criteria in EU and SAT	are equally stringent. Both EU an	nd SAT activities define the criteria for
CGT	infrastructure that is not dedicated to transport or storage of fos	sil fuels. But the corresponding a	activities in China include infrastructure
	dedicated to transport of fossil fuels, and thus are less stringent.		
Corresponding	China taxonomy:	EU taxonomy:	SAT:
activities	5.5.3.1 Construction of power supply facilities at ports, docks	6.17 Low carbon airport	2.5. Low carbon transport
	and airport bridges	infrastructure	infrastructure
Multi-jurisdiction CGT	The activity complies with one or more of the following criteria:		
substantial	 a) the infrastructure is dedicated to the operation of airc 	raft with zero tailpipe CO2 emis	sions: electricity charging and hydrogen
contribution criteria	refuelling.		
	b) the infrastructure is dedicated to the provision of fixed	electrical ground power and pre	conditioned air to stationary aircrafts, as
	well as electrical charging and hydrogen refueling for air	rcraft and ground handling vehicl	es and equipment at the airport;
	c) the infrastructure is dedicated to the zero direct emissions performance of the airport's own operations including but not limited		
	to: electric charging points, electricity grid upgrades, hydrogen refueling stations, resource circularity, renewable energy, optimise		
	energy and systems efficiency to reduce emissions from	airport's own operations.	
	d) Air traffic management infrastructure / processes / activ	vities dedicated to enable zero-ei	mission aviation.
	In all instances, the infrastructure is not dedicated to the transpo	ort or storage of fossil fuels.	

Number and Activity Name	F2.4 Infrastructure for electric rail transport		
Scope of activity	Construction, modernisation, operation and maintenance of railways and subways as well as bridges and tunnels, stations, terminals, rail service facilities, safety and traffic management systems including the provision of architectural services, engineering services, drafting services, building inspection services and surveying and mapping services and the like as well as the performance of physical, chemical and other analytical testing of all types of materials and products.		
Scenario analysis for Multi-jurisdiction CGT	Scenario 4 – identifiable overlap; stringency of criteria is not com Justification of the scenario selection: The criteria in EU and SAT broadly defined and make specific references to Chinese national	nparable across taxonomies are equally stringent. The corres	sponding activities in China are more
	compare the alignment with the relevant thresholds and standar	ds referred in EU, China and SAT	r.
Corresponding activities	China taxonomy: 5.5.2.1 Construction and operation of rail freight transport and the environmental-friendly transformation of railways 5.5.1.5 Construction and operation of public transportation system in urban and rural areas	EU taxonomy: 6.14 Infrastructure for rail transport	SAT: 2.5. Low carbon transport infrastructure
Multi-jurisdiction CGT substantial contribution criteria	Activity meets criteria of at least one of the analysed taxonomies.		
Common requirements across analysed taxonomies	 EU and Singapore share the common criteria as below, but China refers to national standards The activity complies with one or more of the following criteria: a) For electrified trackside infrastructure and associated subsystems: infrastructure, installations and related facilities, energy, onboard control-command and signalling, and trackside control-command and signalling subsystems. b) For new and existing trackside infrastructure and associated subsystems where there is a plan for electrification as regards line tracks, and, to the extent necessary for electric train operations, as regards sidings, or where the infrastructure will be fit for use by zero tailpipe CO2 emission trains within 10 years from the beginning of the activity: infrastructure, energy, on-board control-command and signalling, and trackside control-command and signalling subsystems. c) The infrastructure and installations that principally facilitate trans-shipping freight between the modes: terminal infrastructure and superstructure, installations and related facilities that principally facilitate the transfer of passengers from rail to rail or from other modes to rail. In all instances, the infrastructure is not dedicated to the transport or storage of fossil fuels. 		

Number and Activity	F2.5 Infrastructure for personal mobility, cycle logistics		
Name			
Scope of activity	Construction, modernisation, maintenance and operation of infrastructure for personal mobility, including the construction of roads.		
	motorways bridges and tunnels and other infrastructure that an	e dedicated to pedestrians and b	icycles, with or without electric assist.
Scenario analysis for	Scenario 1 – alignment across taxonomies		
Multi-jurisdiction	Justification of the scenario selection: The criteria in EU, China a	nd SAT are equally stringent and	correspond to infrastructure for cycles,
CGT	pedestrians, and slow-mode vehicles, which would be automative	cally eligible.	
Corresponding	China taxonomy:	EU taxonomy:	SAT:
activities	5.5.1.4 Construction and operation of slow mode	6.13 Infrastructure for	2.5. Low carbon transport
	transportation system	personal mobility, cycle	infrastructure
		logistics	
Multi-jurisdiction CGT	The infrastructure that is constructed and operated is dedicated to personal mobility or cycle logistics: pavements, bike lanes and		
substantial	pedestrian zones, electrical charging and hydrogen refuelling ins	stallations for personal mobility d	evices.
contribution criteria			
Additional notes	Hydrogen vehicles for personal mobility are not eligible in China	taxonomy due to lack of mature	d industry safety and quality standards.

F3. Electrical, pl	umbing a	and other	construction	installation	activities
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Number and Activity Name	F3.1 Green lighting upgrades				
Scope of activity	Energy-saving technology upgrading of high-efficient lighting pro	duct			
Scenario analysis for	Scenario 1 – alignment across taxonomies				
Multi-jurisdiction	Justification of the scenario selection: The criteria in EU, China a	nd SAT are equally stringent and	correspond to installation and		
CGT	replacement of energy efficient light sources, specifically LED.				
Corresponding	China taxonomy:	EU taxonomy:	SAT:		
activities	1.1.3.1 Renovation of Green Lighting	7.3 Installation, maintenance	3.2 Installation, maintenance, repair of		
	and repair of energy equipment				
		efficiency equipment			
Multi-jurisdiction CGT	All activities within the scope are directly eligible				
substantial					
contribution criteria					

Number and Activity	F3.2 Installation, maintenance and repair of renewable energy technologies in buildings					
Name						
Scope of activity	Installation, maintenance and repair	of renewable energy technologies, on-site.				
Scenario analysis for	Scenario 1 – alignment across taxon	omies				
Multi-jurisdiction	Justification of the scenario selectio	n: The criteria in EU, SAT and China are equiva	alent and define specific individual measures that can			
CGT	be installed on-site as technical buil	ding systems.				
Corresponding	China taxonomy:	EU taxonomy:	SAT:			
activities	5.2.1.3 The Application of	7.6 Installation, maintenance and repair of	3.2 Installation, maintenance, repair of equipment			
	Renewable Energy in Buildings	renewable energy technologies				
Multi-jurisdiction CGT	The activity consists of one of the fo	llowing individual measures, if installed on-sit	te as technical building systems:			
substantial	 a) Installation of renewable er 	nergy equipment, renewable energy charging	stations and regulation devices			
contribution criteria	b) Design, installation, mainte	nance and repair of solar photovoltaic system	s and the ancillary technical equipment;			
	c) Installation, maintenance a	nd repair of solar hot water panels and the an	cillary technical equipment;			
	d) Installation, maintenance, r	epair and upgrade of heat pumps contributing	g to the targets for renewable energy in heat and cool in			
	relevant national regulation	relevant national regulation;				
	e) Installation, maintenance and repair of wind turbines and the ancillary technical equipment;					
	f) Installation, maintenance and repair of solar transpired collectors and the ancillary technical equipment;					
	g) Installation, maintenance a	nd repair of thermal or electric energy storage	e units and the ancillary technical equipment;			
	h) Installation, maintenance a	nd repair of high efficiency micro CHP (combir	ned heat and power) plant;			
	i) Installation, maintenance a	nd repair of heat exchanger/recovery systems				

Number and Activity	F3.3 Installation, maintenance and repair of energy efficiency e	quipment			
Name					
Scope of activity	Individual renovation measures consisting in installation, maintenance or repair of energy efficiency equipment.				
Scenario analysis for	Scenario 4 – identifiable overlap; stringency of criteria is not com	nparable across taxonomies			
Multi-jurisdiction	Justification of the scenario selection: The criteria in EU and SAT	are equivalent and define specif	ic individual measures, whereas the		
CGT	corresponding China activities are broadly defined and reference	e national standards. Currently, it	is not possible to assess the stringency		
	and compare the alignment with the relevant measures and star	ndards referred in EU, SAT and Ch	nina.		
Corresponding	China taxonomy:	EU taxonomy:	SAT:		
activities	5.2.1.5 Energy Conservation and Environmental-friendly	7.3 Installation, maintenance	3.2 Installation, maintenance, repair of		
	Renovation of Existing Buildings	and repair of energy	equipment		
	6.2.1.2 Energy Performance Contracting Services	efficiency equipment			
Multi-jurisdiction CGT	Activity meets criteria of at least one of the analysed taxonomies	S.			
substantial					
contribution criteria					
Common	EU and Singapore share the common criteria as below, but China	a refers to national standards			
requirements across	The activity consists of one of the following individual measures	provided that they comply with	minimum requirements set for		
analysed taxonomies	individual components and systems in the applicable national measures and, where applicable, are rated in the highest two populated				
	classes of energy efficiency in accordance with national regulations:				
	(a) addition of insulation to existing envelope components,	such as external walls (including	green walls), roofs (including green		
	roofs), lofts, basements and ground floors (including measures to ensure air-tightness, measures to reduce the effects of				
	thermal bridges and scaffolding) and products for the application of the insulation to the building envelope (including				
	mechanical fixings and adhesive);				
	(b) replacement of existing windows with new energy efficition	ent windows;			
	(c) replacement of existing external doors with new energy	efficient doors;			
	(d) installation and replacement of energy efficient light sou	urces;			
	(e) installation, replacement, maintenance and repair of he	ating, ventilation and air- conditi	ioning (HVAC) and water heating		
	systems, including equipment related to district heating	services, with highly efficient ter	chnologies;		

Number and Activity	F3.4 Installation, maintenance and repair of charging stations for electric vehicles in buildings					
Name						
Scope of activity	Installation, maintenance and repair of charging stations for	or electric vehicles in buildings and parking spaces at	tached to buildings.			
Scenario analysis for	Scenario 3 – EU and SAT criteria are equally stringent, and	more than China.				
Multi-jurisdiction	Justification of the scenario selection: The criteria in EU ar	nd SAT are equally stringent. Both EU and SAT activitie	es define the criteria for			
CGT	installation, maintenance or repair of charging stations for	r electric vehicles. But the corresponding activity in C	hina include infrastructure			
	dedicated to LNG refuelling stations, and thus are less strin	ngent.				
Corresponding	China taxonomy:	EU taxonomy:	SAT:			
activities	5.5.4.1 The Construction and Operation of Power	7.4 Installation, maintenance and repair of	3.2 Installation,			
	Charging, Battery Replacement, Hydrogen Refuelling and charging stations for electric vehicles in buildings maintenance, repair of					
	LNG Refuelling Facilities (and parking spaces attached to buildings) equipment					
Multi-jurisdiction CGT	All activities within the scope are directly eligible					
substantial						
contribution criteria						

Number and Activity Name	F3.5 Installation, maintenance and repair of instruments and devices for measuring, regulation and controlling energy performance of buildings				
Scope of activity	Installation, maintenance and repair of instruments and de buildings	evices for measuring, regulation and co	ontrolling energy performance of		
Scenario analysis for	Scenario 4 – identifiable overlap; stringency of criteria is n	ot comparable across taxonomies			
Multi-jurisdiction	Justification of the scenario selection: The criteria in EU ar	nd SAT are equivalent and define specific	fic individual measures, whereas the		
CGI	corresponding China activities are broadly defined and ref compare the alignment with the relevant measures and st	andards referred in EU, SAT and China.	ging to assess the stringency and		
Corresponding	China taxonomy:	EU taxonomy:	SAT:		
activities	5.2.1.5 Energy Conservation and Environmental-friendly	7.5 Installation, maintenance and	3.2 Installation, maintenance, repair of		
	Renovation of Existing Buildings	repair of instruments and devices	equipment		
	6.2.1.2 Energy Performance Contracting Services	for measuring, regulation and			
	6.2.1.3 Power Demand-side Management Services	controlling energy performance of			
	6.4.1.1 Building of Online Energy Monitoring System	buildings			
Multi-jurisdiction CGT	Activity meets criteria of at least one of the analysed taxo	nomies.			
substantial					
contribution criteria					
Common	EU and Singapore share the common criteria as below, bu	t China refers to national standards			
requirements across	The activity consists in one of the following individual mea	asures:			
analysed taxonomies	a) installation, maintenance and repair of zoned thermostats, smart thermostat systems and sensing equipment, including. motion				
	and day light control;				
	b) installation, maintenance and repair of building automation and control systems, building energy management systems (BMS),				
	() installation maintenance and renair of smart met	ters for gas heat cool and electricity			
	d) installation, maintenance and repair of facade and	d roofing elements with a solar shading	a or solar control function, including		
	those that support the growing of vegetation.				

H: Transportation and storage

ISIC mapping

ISIC Section	ISIC Division	Common Ground Taxonomy category
	49. Land transport and transport via pipelines	H1. Land transport including railways
	50 - Water Transport	H2. Water Transport
H. Transportation and storage	51 - Air Transport	H3. Air Transport
	52 - Warehousing And Support Activities For	H4. Warehousing And Support Activities For Transportation
	Transportation	

H1. Land transport including railways

Number and Activity Name	H1.1 Construction and operation of public transport	tation system in urban and rural areas			
Scope of activity	Construction and operation of subways, light railways	s, tram and other urban rail transportat BRT bus stations, lines and other faciliti	ion facilities; construction and operation of ies construction and operation; purchase of		
	public transportation vehicles, etc.				
Scenario analysis for	Scenario 2 – SAT criteria are the most stringent.				
Multi-jurisdiction	Justification of the scenario selection: EU and SAT for	cus on zero tailpipe CO2 emissions, but	the EU has an interim alignment to EURO VI		
CGT	standard till 2025 for certain categories of vehicle. Co	onsidering corresponding China activity	does not have specific criteria relating to		
	zero tailpipe CO2 emissions, SAT criteria are the most	t stringent.			
Corresponding	China taxonomy:	EU taxonomy:	SAT:		
activities	5.5.1.5 Construction and operation of public	6.3 Urban and suburban transport,	2.3. Urban and suburban passenger		
	transportation system in urban and rural areas	road passenger transport	land transport		
Multi-jurisdiction CGT	For scheduled passenger road transport, the activity	complies with the following criteria:			
substantial	 a) The activity provides urban or suburban pass 	senger transport, and its direct (tailpipe	e) CO2 emissions are zero.		
contribution criteria					
	For scheduled passenger urban suburban rail transport, the activity complies with one of the following criteria:				
	a) The trains and passenger coaches have zero direct (tailpipe) CO2 emissions; the trains and passenger coaches have zero direct				
	tailpipe CO2 emission when operated on a	a track with necessary infrastructure,	and use a conventional engine where such		
	infrastructure is not available (bimode), or				
	b) Direct (tailpipe) CO2 emissions of the vehicle	e are zero.			

Number and Activity	H1.2 Construction and operation of rail freight transport and upgrade of existing railways				
Name					
Scope of activity	Construction and operation of freight railway facilities such as freight railway routes, yards and stations, and special power substations; construction and operation of existing railway electrification, yards and stations and relevant energy-saving and environmental protection renovation projects.				
Scenario analysis for	Scenario 3 – EU and SAT criteria are equally stringent, and	l more than China.			
Multi-jurisdiction	Justification of the scenario selection: EU and SAT criteria	are equally stringent, and focus sp	pecifically on trains and wagons having zero		
CGT	tailpipe CO2 emissions. The corresponding China activity I	requires railway yards and stations	s must meet the relevant provisions of the		
	Green Railway Passenger Station Evaluation Standard (TB/T 10429), however, does not have specific criteria relating to zero tailpipe CO2				
	emissions				
Corresponding	China taxonomy:	EU taxonomy:	SAT:		
activities	5.5.2.1 Construction and operation of rail freight	6.2 Freight rail transport	2.1. Transport via railways		
	transport and upgrade of existing railways to energy-				
	saving and environmentally friendly ones				
Multi-jurisdiction CGT	The activity complies with one or both of the following cri	iteria:			
substantial	a) the trains and wagons have zero direct tailpipe CO2 emission;				
contribution criteria	b) the trains and wagons have zero direct tailpipe CO2 emission when operated on a track with necessary infrastructure, and use a				
	conventional engine where such infrastructure is	not available (bimode).			
	The trains and wagons are not dedicated to the transport	of fossil fuels.			

Number and Activity Name	H1.3 Construction and operation of facilities for shared to	ransport, including motorbikes, p	assenger cars and light commercial vehicles	
Scope of activity	Construction and operation of shared private transportation infrastructure, such as systems for public rental bicycles, online bicycle rental, online bicycle rental, online car rental, car sharing, parking facilities and equipment, and bicycle parking facilities			
Scenario analysis for Multi-jurisdiction CGT	Scenario 2 –SAT criteria are the most stringent. Justification of the scenario selection: EU and SAT focus on zero tailpipe CO2 emissions, but the EU has an interim alignment to EURO VI standard till 2025 for certain categories of vehicle. Considering corresponding China activity does not have specific criteria relating to zero tailpipe CO2 emissions. SAT criteria are the most stringent.			
Corresponding activities	China taxonomy: 5.5.1.6 Construction and operation of facilities for shared transport	EU taxonomy: 6.5 Transport by motorbikes, passenger cars and light commercial vehicles	SAT: 2.2. Other passenger land transport	
Multi-jurisdiction CGT substantial contribution criteria	 The activity complies with the following criteria: Direct (tailpipe) CO2 emissions of the vehicle are zero. 			
Additional notes	Even if China scope is narrower than EU and SAT, China cri instead of scenario 4 is assigned.	teria has not specifically required	zero direct emissions. Therefore, scenario 2	

Number and Activity	H1.4 Passenger interurban rail transport				
Name					
Scope of activity	Purchase, financing, rental, leasing and operation of passe	enger transport using railway rollir	ng stock (on mainline networks, spread over	
	an extensive geographic area, passenger transport by inte	rurban railways and operation of	sleeping	cars or dining cars as an integrated	
	operation of railway companies.				
Scenario analysis for	Scenario 3 – EU and SAT criteria are equally stringent, and	more than China.			
Multi-jurisdiction	Justification of the scenario selection: EU and SAT criteria are equally stringent and focus specifically on trains and passenger coaches				
CGT	having zero tailpipe CO2 emissions. The corresponding China activity does not have specific criteria relating to zero tailpipe CO2				
	emissions.				
Corresponding	China taxonomy:	EU taxonomy:	SAT:		
activities	5.5.1.3 Construction and operation of smart 6.1 Passenger interurban rail 2.1. Transport via railways				
	transportation transport				
Multi-jurisdiction CGT	The activity complies with one of the following criteria:				
substantial	a) the trains and passenger coaches have zero direct (tailpipe) CO2 emissions;				
contribution criteria	b) the trains and passenger coaches have zero direct	t (tailpipe) CO2 emission when ope	erated on	a track with necessary infrastructure,	
	and use a conventional engine where such infras	tructure is not available (bimode)			

Number and Activity Name	H1.5 Construction and operation of personal mobility de	vices, cycle logistics					
Scope of activity	Construction, leasing, renting and operation of personal mobility or transport devices where the propulsion comes from the physical activity of the user, from a zero- emissions motor, or a mix of zero-emissions motor and physical activity. This includes the provision of freight transport services by (cargo) bicycles.						
Scenario analysis for	Scenario 3 – EU and SAT criteria are equally stringent, and	more than China.					
Multi-jurisdiction	Justification of the scenario selection: EU and SAT criteria	are equally stringent and focus spe	ecifically on personal mobility devices that				
CGT	are propelled from the physical activity of the user, or from a zero-emissions motor, or from a mix of both. The corresponding China						
	activity is broadly defined and does not have specific crite	ria.					
Corresponding	China taxonomy:	EU taxonomy:	SAT:				
activities	5.5.1.4 Construction and operation of slow mode	6.4 Operation of personal	2.5. Low-carbon transport infrastructure				
	transportation system	transportation system mobility devices, cycle logistics 2.2. Other passenger land transport					
	5.5.1.6 Construction and operation of facilities for						
	shared transport						
Multi-jurisdiction CGT	1. The propulsion of personal mobility devices comes from the physical activity of the user, from a zero-emissions motor, or a mix of						
substantial	zero-emissions motor and physical activity.						
contribution criteria	2. The personal mobility devices are allowed to be operate	ed on the same public infrastructu	re as bikes or pedestrians.				
	Pavements, bike lanes and pedestrian zones, parking prov	isions for active mobility modes, e	electrical charging and hydrogen refuelling				
	installations for personal mobility devices.						

Number and Activity	H1.6 Freight transport services by road			
Name				
Scope of activity	This activity includes all freight transport operations by road; logging haulage; stock haulage; refrigerated haulage; heavy haulage; bulk haulage, including haulage in tanker trucks; haulage of automobiles; transport of waste and waste materials, without collection or disposal.			
	This activity also includes furniture removal; renting of tru	cks with driver; freight transport t	by man or animal-drawn vehicles.	
Scenario analysis for	Scenario 2 – SAT criteria are the most stringent.			
Multi-jurisdiction	Justification of the scenario selection: EU and SAT focus on zero tailpipe CO2 emissions, but the EU has an exception for certain			
CGT	categories of vehicle. There is no corresponding China activity (Instead, China focuses on construction and operation of road			
	infrastructure instead of freight service agencies).			
Corresponding	China taxonomy:	EU taxonomy:	SAT:	
activities	Activity is not in China taxonomy	6.6 Freight transport services	2.4 Freight transport by road	
		by road		
Multi-jurisdiction CGT	N/A	The activity complies with the fo	llowing criteria:	
substantial		a) Direct (tailpipe) CO2 emissions of the vehicle are zero.		
contribution criteria		b) Vehicles are not dedica	ted to fossil fuel transport	

H2. Water transport

Number and Activity Name	H2.1 Inland water transport			
Scope of activity	This activity includes transport of passenger or freight via rivers, canals, lakes and other inland waterways, including inside harbours and ports.			
	This activity also includes rental of pleasure boats with crew for inland water transport, and Construction and operation of facilities for the supply of electricity to port and shore-based ships			
Scenario analysis for	Scenario 2 –SAT criteria are the most stringent.			
Multi-jurisdiction	Justification of the scenario selection: EU and SAT focus on zero tailpipe CO2 emissions, but the EU has an interim target till 2025. There			
CGT	is no corresponding China activity.			
Corresponding	China taxonomy:	EU taxonomy:	SAT:	
activities	Activity is not in China taxonomy	6.7 Inland passenger water transport	2.7. Inland water transport	
		6.8 Inland freight water transport		
Multi-jurisdiction CGT	N/A	The activity complies with the following criteria:		
substantial		a) Vessels have zero direct (tailpipe) CO2 emis	sions.	
contribution criteria				

umber and	H2.2 Sea and coast	tal water transport		
Activity Name				
Scope of activity	This activity includes transport of passengers or freight overseas and coastal waters, whether scheduled or not; operation of excursion, cruise or sightseeing boats; operation of ferries, water taxis etc.; operation of harbour crafts; transport of freight overseas and coastal waters, whether scheduled or not; transport by towing or pushing of barges, oil rigs etc. This activity also includes rental of pleasure boats with crew for sea and coastal water transport.			
Scenario analysis for	Scenario 2 – SAT cri	teria are the most stringent.		
Multi-jurisdiction	Justification of the	scenario selection: EU and SAT focus on zero tailpipe CO2 emissions, but the	EU has an interim target till 2025. There	
CGT	is no corresponding	g China activity.		
Corresponding	China taxonomy:	EU taxonomy:	SAT:	
activities	Activity is not in	6.10 Sea and coastal freight water transport, vessels for port operations	2.6. Sea and coastal water	
	China taxonomy	and auxiliary activities	transport	
		6.11 Sea and coastal passenger water transport		
Multi-jurisdiction CGT	N/A	The activity complies with one of the following criteria:		
substantial		a) Vessel has zero direct tailpipe CO2 emissions; with an emphasis on tank-to-wake emissions and taking into account		
contribution criteria		the IMO's guidelines on lifecycle analysis of fuels; or		
		b) Vessel derives 100% of the energy used onboard from fuels or other energy carriers which achieve at least 80%		
		greenhouse gas emission savings compared to their fossil fuel equivalent on a Tank-To-Wake basis; or		
		c) Vessel has to comply with emission intensity thresholds set by CBI criteria throughout its economic life.		
		And		
		Vessels are not dedicated to the transport of fossil fuels.		
		And		
		If vessels are using biofuels these must:		
		a) Meet the Taxonomy Green criteria for biofuels indicated in the Energy s	ector and	
		b) Be recognised by the IMO as relevant and eligible fuels/energy carriers i	used for propulsion and operation of	
		ships taking into account the IMO's Guidelines on the Lifecycle GHG Inte	ensity of Marine Fuels (LCA Guidelines).	
		c) The fleet type and size category median values in EEOI32 and AER33 for	each decade starting from 2020 to 2050.	

H3. Air transport

Number and Activity Name	H3.1 Passenger and freight air transpo	prt			
Scope of activity	Purchase, financing and operation of a	Purchase, financing and operation of aircraft including transport of passengers and goods.			
Scenario analysis for	Scenario 2 – SAT criteria are the most s	tringent.			
Multi-jurisdiction	Justification of the scenario selection:	Justification of the scenario selection: EU and SAT focus on zero tailpipe CO2 emissions, but the EU has an interim target till 2025. There			
CGT	is no corresponding China activity.	is no corresponding China activity.			
Corresponding	China taxonomy:	EU taxonomy:	SAT:		
activities	Activity is not in China taxonomy	6.19 Passenger and freight air transport	2.8. Air transport		
Multi-jurisdiction CGT	N/A	Once credible, science-based, and 1.5 degrees align	ed pathway developed by ICAO becomes		
substantial		available, it will be reviewed for inclusion in the taxonomy. Pending this development, the			
contribution criteria		activity complies with one of the following criteria:			
		a) Performed using zero exhaust CO2 emission aircraft such as those powered by electricity			
		or hydrogen meeting Taxonomy criteria (green)			
		b) Aircrafts are not dedicated to fossil fuel trar	nsport.		

Number and Activity	H3.2 Leasing of aircraft				
Name					
Scope of activity	Renting and leasing of aircraft and airc	raft parts and equipment			
Scenario analysis for	Scenario 2 – SAT criteria are the most s	tringent.			
Multi-jurisdiction	Justification of the scenario selection:	EU and SAT focus on zero tailpipe CO2 emissions, but	the EU has an interim target till 2025. There		
CGT	is no corresponding China activity.				
Corresponding	China taxonomy:	EU taxonomy:	SAT:		
activities	Activity is not in China taxonomy	6.18 Leasing of aircraft	2.8. Air transport		
Multi-jurisdiction CGT	N/A	Once credible, science-based, and 1.5 degrees aligned	ed pathway developed by ICAO becomes		
substantial		available, it will be reviewed for inclusion in the taxo	nomy. Pending this development		
contribution criteria					
		The activity complies with one of the following criteria:			
		a) Performed using zero exhaust CO2 emission aircraft such as those powered by electricity			
		or hydrogen meeting Taxonomy criteria (green)			
		b) Aircrafts are not dedicated to fossil fuel tran	sport.		

H4. Warehousing and support activities for transportation

Number and Activity Name	H4.1 Air transport ground handling	operations		
Scope of activity	Manufacture, repair, maintenance, overhaul, retrofitting, design, repurposing and upgrade, purchase, financing, renting, leasing and operation of equipment and service activities incidental to air transportation (ground handling), including ground services activities at airports and cargo handling, including loading and unloading of goods from aircraft.			
	The economic activity includes:			
	(a) vehicles for aircraft marshalling a	nd other services within the apron;		
	(b) equipment for passenger boardir	ng, including passenger shuttles, mobile steps;		
	(c) equipment for baggage and freigh	nt handling including belt loaders, baggage tractors, a	airport pallet trucks lower deck loaders, main	
	deck loaders;			
	(d) equipment for catering including	cool container dollies, excluding equipment with refr	rigeration units powered by an internal	
	combustion engine;			
	(e) maintenance equipment including maintenance stands and platforms;			
	(g) de-icing equipment for aircraft and engine de-icing:			
	(b) snow ploughs and other snow clearance and surface de-icing equipment:			
	(i) non-autonomous taxiing			
Scenario analysis for	Scenario 3 – EU and SAT criteria are	equally stringent.		
Multi-jurisdiction CGT	Justification of the scenario selection	1: EU and SAT are equally stringent and focus on zero	tailpipe CO2 emissions. There is no	
	corresponding China activity.	. , c		
Corresponding activities	China taxonomy:	EU taxonomy:	SAT:	
	Activity is not in China taxonomy	6.20 Air transport ground handling operations	2.8. Air transport	
			2.2. Other passenger land transport	
Multi-jurisdiction CGT	N/A	Ground handling vehicles' direct (tailpipe) CO2 emissions are zero. The propulsion of all ground		
substantial contribution		handling devices and equipment comes from a zero-emissions motor.		
criteria				

M: Professional, scientific and technical activities

ISIC Mapping

ISIC Section	ISIC Division	Common Ground Taxonomy category
M. Professional, scientific and	71. Architectural and Engineering Activities;	M1. Professional, scientific and technical activities
technical activities	Technical Testing and Analysis	
	72. Scientific Research and Development	

M1. Professional, scientific and technical activities

Number and Activity	M1.1 Close to market research, development and innovation ¹²		
Name			
Scope of activity	 Research, applied research and experimental development of solutions, processe avoidance or removal of GHG emissions (RD&I) for which the ability to reduce, reactivities has at least been demonstrated in a relevant application context. This includes (1) technical services assessing potential commercial use of green resources contributes to GHG reduction; (2) clean production audit services specifically referring to technical diagnosis identify potential improvement areas, propose improvement plans, and achieve inputs into production 	es, technologies, and products dedicated emove or avoid GHG emissions in the tar and scaled construction of such projects s of production process, energy consum better energy efficiency, less emissions	d to the reduction, get economic which ption, etc, so as to and less resource
Scenario analysis for	Scenario $2 - EU criteria are the most stringent$		
Multi-iurisdiction	Justification of the scenario selection. The FU activity is classified as enabling	activity and for this reason the substa	antial contribution
CGT	criteria are associated with do no significant harm criteria. Whereas the Chi	nese Taxonomy differs in this and is	linked to relevant
	environmental and green industry regulations and standards. In the EU Taxonom	y, DNSH criteria are defined irrespective	e of the law, based
	on analyses of the environmental footprints of economic activities and targeted criteria/measures to mitigate the footprints identified.		
	There is no corresponding SAT activity		
Corresponding	China taxonomy:	EU taxonomy:	SAT:
activities	6.1.1.1 Green Industry Project Survey Services	9.2 Close to market research,	Activity is not in
	6.1.1.2 Green Industry Project Design Services	development and innovation	SAT ¹³
	6.1.1.4 Clean Production Audit Services		

¹² The activity is integrated only to reflect the current thinking and the progress made around finding a common ground on the EU and Chinese Taxonomy criteria for RD&I. At this stage, the activity is not formally adopted as part of the CGT due to methodological incompatibilities.

In the EU Taxonomy this activity is considered as enabling per the following definition:

An economic activity shall qualify as contributing substantially to one or more of the other environmental objectives by directly enabling other activities to make a substantial contribution to one or more of those objectives, provided that such economic activity:

a) does not lead to a lock-in of assets that undermine long-term environmental goals, considering the economic lifetime of those assets; and

b) has a substantial positive environmental impact, on the basis of life-cycle considerations.

¹³ SAT specifically focuses on only CCS-related technologies – the overlap between SAT and China and EU taxonomies is too small to make a robust comparison...

Multi-jurisdiction CGT substantial contribution criteria	1.	The activity researches, develops or provides innovation for technologies, products or other solutions that are dedicated to one or more economic activities for which the technical screening criteria have been set out in the CGT.	N/A
	2.	The results of the research, development and innovation enable one or more of those economic activities to meet the respective criteria for substantial contribution to climate change mitigation, while respecting the relevant criteria for doing no significant harm to other environmental objectives.	
	3.	The economic activity aims at bringing to market a solution that is not yet in the market and is expected to have a better performance in terms of life-cycle GHG emissions than best commercially available technologies based on public or market information. The implementation of the technologies, products or other solutions being researched results in overall net GHG emissions reductions over their life cycle.	
	4.	Where the researched, developed or innovated technology, product or other solution already enables an activity or several activities addressed in the CGT to meet the technical screening criteria specified in the applicable Section of the CGT, or where that technology, product or other solution already enables one or more economic activities considered as enabling or transitional to meet the requirements specified in points 5 and 6 respectively, the research, development and innovation activity focuses on the development of equally low- or lower-emission technologies, products or other solutions with new significant advantages, such as lower cost.	
	5.	Where a research activity is dedicated to one or more economic activities considered as enabling activities in the CGT, the results of the research deliver innovative technologies, processes or products that allow those enabling activities and the activities that they ultimately enable to substantially reduce their GHG emissions or substantially improve their technological and economic feasibility in order to facilitate their scaling up.	
	6.	Where a research activity is dedicated to one or more economic activities considered as transitional activities in the CGT, the technologies, products or other solutions researched enable the target activities to be carried out with substantially lower projected emissions compared to the technical screening criteria for substantial contribution to climate change mitigation set out in the CGT.	
	7.	Where the researched, developed or innovated technology, product or other solution is at the stage of technology model or prototype demonstration in a relevant environment, life-cycle GHG emissions are	

	 evaluated in simplified form by the entity carrying out the research. The entity demonstrates one of the following, where applicable: a. a patent not older than 10 years associated with the technology, product or other solution, where information on its GHG emission reduction potential has been provided; b. a permit obtained from a competent authority for operating the demonstration site associated with the innovative technology, product or other solution for the duration of the demonstration project, where information on its GHG emission reduction potential has been provided. Where the researched, developed or innovated technology, product or other solution is at the stage of actual technology completed and qualified through test and demonstration, or beyond, ready, life-cycle GHG emissions are calculated using Recommendation 2013/179/EU or, alternatively, using ISO 14067:2018(325) or ISO 14064-1:2018(326) and are verified by an independent third party. 	
Explanation/ Comments	Due to the importance of facilitating R&D investments for the transition, both China and the EU would see the activity M1.1 "Close to Market Research, Development and Innovation" being integrated into the CGT. However, there is a clear overlap in the description and scope of the activity, whereas the substantial contribution criteria present some divergences. The EU Taxonomy classifies the activity of "Close to market research, development and innovation" as enabling and, for this reason, the substantial contribution criteria are associated with do no significant harm criteria. The Chinese Taxonomy differs in this and is linked to relevant environmental and green industry regulations and standards. In the EU Taxonomy, DNSH criteria are defined irrespective of the law, based on analyses of the environmental footprints of economic activities and targeted criteria/measures to mitigate the footprints identified. For the target economic activities, the green labelling scheme should incorporate technical criteria for all significant environmental impacts in the relevant context, in accordance with the applicable international and national environmental laws and green standards. In that context, the activity was integrated into the CGT to reflect the necessity to foster green R&D investments. Nevertheless, a well-defined common technical screening criteria is subject to further analysis and articulation in the future .	N/A

Number and Activity Name	M1.2 Professional services related to energy performance of certified green buildings		
Scope of activity	Professional services related to energy performance of certified green buildings. This includes technical consultancy services for energy performance contracting, energy saving assessment, energy audit, and promotion and certification of energy saving products, low carbon products, environmental labelling products and green building materials.		
Scenario analysis for Multi-jurisdiction CGT	Scenario 4 – identifiable overlap; stringency of criteria is not comparable across taxonomies Justification of the scenario selection: EU and China taxonomies reference relevant national and regional standards or regulations. Currently, it is not possible to assess the stringency and compare the alignment with the relevant thresholds and standards referred in EU and China. There is no corresponding SAT activity.		
Corresponding activities	China taxonomy:EU taxonom6.5.1.1 Promotion and Certification of Energy Saving Products9.2 Close to6.5.1.2 Promotion and Certification of Low-Carbon Productsdevelopment6.5.1.4 Promotion and Certification of Environmental Labelling Products6.5.1.8 Promotion and Certification of Green Building Materials6.2.1.2 Energy Performance Contracting Services6.2.1.4 From the formula form	ny: SAT: o market research, Activity is not in int and innovation SAT	
Multi-jurisdiction CGT substantial contribution criteria	Activity meets criteria of at least one of the analysed taxonomies	N/A	
Common requirements across analysed taxonomies	 The activity consists in one of the following: Technical consultations (energy consultations, energy simulations, project management, production of energy performance contracts, dedicated trainings) linked to the improvement of energy performance of certified green buildings; Accredited energy audits and building performance assessments; Energy management services; Energy performance contracts; Energy services provided by energy service companies (ESCOs) Energy-saving technology improvement services related to the sharing of benefits from energy-saving, energy cost custody, energy-saving performance contract, and financial leasing; other consulting services related to consulting for the business models of energy management contracting, that meet the requirements of national standards. Energy efficiency assessment of energy-using units, technical consulting services on energy-saving retrofit plan design and third-party energy audit, energy saving assessment, energy audit training, energy-saving assessment and energy audit-related services such as energy-saving report prenaration services for fixed asset 		

investment projects, that shall meet the requirements of relevant national standards	
Certification and promotion services for green building materials such as energy-saving glass, thin ceramic tiles,	
masonry materials and other green building materials that meet the requirements of national policies and	
specifications.	

X: Others

These areas do not fit easily within ISIC codes and are added here for completeness

Number and Activity Name	X1. Underground permanent geological storage of CO2		
Scope of activity	Permanent storage of captured CO2 in appropriate underground geological formations. This activity does not include nature based sequestration activities.		
Scenario analysis for Multi-jurisdiction CGT	 Scenario 2- EU criteria are the most stringent Justification of the scenario selection: EU and SAT taxonomies explicitly reference the same international standard for the operation of a permanent CO2 storage facility, but EU additionally provides quantitative criteria for the characterisation, assessment, exploration and operation of these facilities. China taxonomy covers "construction and operation of emission reduction projects to capture, utilize, or store carbon dioxide emitted from the combustion of fossil energy and industrial processes" without specified quantitative criteria or standards. 		
Corresponding activities	China taxonomy: 3.2.3.6 Construction and operation of carbon dioxide capture, utilization and storage (CCS) project	EU taxonomy: 5.12. Underground permanent geological storage of CO2	SAT: 6.3 Permanent sequestration of captured CO2
Multi-jurisdiction CGT substantial contribution criteria	 The activity complies with all of the following criteria: Characterisation and assessment of the potential storage complex and surrounding area, or exploration within the meaning of national standards and regulations is carried out in order to establish whether the geological formation is suitable for use as a CO2 storage site. For operation of underground geological CO2 storage sites, including closure and post- closure obligations: appropriate leakage detection systems are implemented to prevent release during operation; a monitoring plan of the injection facilities, the storage complex, and, where appropriate, the surrounding environment is in place, with the regular reports checked by the competent national authority. For the exploration and operation of storage sites , the activity complies with ISO 27914:2017 for geological storage of CO2 or relevant national standards and regulations. 		
Number and Activity Name	X2. Hydrogen storage		
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Scope of activity	Construction and operation of facilities that store hydrogen and return it at a later time		
Scenario analysis for Multi-jurisdiction CGT	Scenario 3 – EU and SAT criteria are equally stringent, and more than China Justification of the scenario selection: EU and SAT Taxonomies have more stringent criteria from the climate change mitigation perspective given the cross-reference to the criteria for manufacture of hydrogen, while criteria outlined in the Chinese taxonomy primarily refer to the design and safety requirements		
Corresponding activities	China taxonomy: 3.2.2.8 Construction and Operation of Hydrogen Energy Utilization Facilities3	EU taxonomy: 4.12. Storage of hydrogen	SAT: 1.10. Storage of hydrogen or its derivatives
Multi-jurisdiction CGT substantial contribution criteria	The activity is one of the following: (a) construction of hydrogen storage facilities; (b) conversion of existing underground gas storage facilities into storage facilities dedicated to hydrogen-storage; (c) operation of hydrogen storage facilities where the hydrogen stored in the facility meets the criteria for manufacture of hydrogen set out in hydrogen Manufacture in Section C.		