

SIEC Revision - Pending Issues

October 2024

This document outlines the 18 original issues identified by the Task Team on the Revision of SIEC, and the related pending issues and tentative decisions made as of August 2024. It was prepared in support of the request to the UNCEISC to extend the revision of SIEC for one year. Task Team initiated discussion on all 18 issues it identified and reached broad consensus on many of them. However, the following SIEC sections, in particular, will require further discussion: 2. Natural gas; 4. Biofuels; 6. Electricity; 7. Heat and cold; 9. Synthetic fuels and other fuels n.e.c. In addition, discussions on revalidating the overall scope and purpose of SIEC took place only recently, and additional consideration is required. Lastly, the explanatory notes and introductory text for CPC V3.0 are still being finalized, so the proposed extension will allow for more informed discussion on harmonization of the two classifications.

Issue	Title	Pending issues	Tentative decisions	Decisions pending/based on
1	Harmonization of CPC and SIEC¹	Group “Coke oven gas, gas works gas and recovered gases” at higher level	NO: Do not group “coke oven gas, etc” in order to maintain 4-level structure	Only briefly discussed in Task Team, but broad desire to maintain 4-level structure
		Remove distinction between “Sod” & “Milled” peat	YES: Remove distinction between “Sod” and “Milled” peat	Broad consensus in initial Task Team discussion
2	Review underlying scope, principles & concepts of SIEC	Organizing principles/concepts outlined in paper by IEA and UNSD	TBD	TBD
3	Review of SIEC structure	Finalize structure	TBD	TBD
4	Classification of Hydrogen and Ammonia	Finalize agreement on proposal to move “Hydrogen” from Division 45 and classify with “Ammonia” under “Synthetic fuels”	YES: Agree to move “Hydrogen” from Division 45 and classify with “Ammonia” under “Synthetic fuels”	Broad consensus in Task Team during discussions on Issues #4, #15
5	Classification of “concentrated coal” or “washed coal”	Finalize agreement on proposal to add note on definition of coal to IRES rather than add distinction for each category of coal	YES: Add note on the definition of coal rather than add “concentrated/washed” distinction for each category of coal	Only briefly discussed in Task Team, but no objections raised. Note to be drafted
6	Review the definition of coal	Finalize definition of coal	TBD: Definition of coal not yet agreed	TBD: To be addressed in the explanatory notes
7	Classification of oil shale and oil sands	Separate “Oil shale” and “Oil sands”	YES: Separate “oil shale” and “oil sands”	Task Team discussions on the differences in these two products

¹ URLs provide links to the corresponding discussion pages on the TT-SIEC wiki

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		(If separating “oil shale” and “oil sands”) A. Keep them within Section 02 “Oil shale/oil sands” or B. Move them both to Section 04 “Oil” C. Move only “Oil sands” to Section 04 “Oil” and keep “Oil shale” in standalone section or combine with Peat	TBD: Decision between A/B/C pending	TBD: Only briefly discussed in Task Team, but desire to group all related “products” together under Section 04, as done in other Sections (i.e. Coal, Peat)
8	Classification of “wet gas”	For “Wet gas,” decide among 3 proposals: A. No change to Section 03 “Natural gas” B. Split Natural gas into “Wet/raw gas” and “Processed gas” C. Further disaggregate “Natural gas” to reflect other sources	TBD: Choose among 3 options	TBD: Only brief discussion in Task Team, no consensus reached
		For “LNG” Distinguish “LNG” from “Natural gas”	TBD: Generally agreed to distinguish LNG from Natural gas, but not clear exactly how, or what the structure of the revised Section 03 would look like	TBD: How would the split appear? 031 “Gaseous natural gas” and 032 “Liquid natural gas”? How would it appear if the “Wet/raw” split above was also implemented?
9	Distinction between liquefied and compressed natural gas	Proposal that the distinction between LNG and CNG does not need to be made	NO: The distinction between LNG and CNG does not need to be made in the classification	Broad consensus in Task Team
10	District cooling as an energy product	See Issue #18 below		
11	Industrial and municipal waste	Use terms “(non)-biogenic” to replace “(non)-renewable”	YES: Agreed to use terms “biogenic” and “non-biogenic”	Broad consensus in Task Team/focus group discussions
		Keep products of biogenic origin in “05-Biofuels” according to solid/liquid/gas state	YES: Agreed to keep products of biogenic waste origin in Division 05	Broad consensus in Task Team/focus group discussions
		Add products from chemical/thermal transformation under “Synthetic fuels”	YES: Agreed to classify products from chemical/thermal transformation under “Synthetic fuels”	Broad consensus in Task Team/focus group discussions

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		Add products that are non/minimally processed under new “61” products that are mechanically processed/shredded/dried under new “62”	YES: Agreed to separate products of mixed origin based on degree of processing	Broad consensus in Task Team/focus group discussions
		Add the municipal/industrial split as an “of which”	YES: Add the industrial/municipal split as an option “of which”	Broad consensus in Task Team/focus group discussions
12	Breakdown of fuelwood, wood residues and by-products	Finalize agreement on proposed restructuring of Section 05, integrating any additional changes from Issue #13	YES: Agreed to revised structure of Division 051 “Solid Biofuels” as proposed under Issue #13 for Groups “Harvested biomass,” “Harvest residues,” “Biomass processing residues,” “Animal residues,” and “Other solid biofuels.” Agree to revised structure of Group “Wood fuel, processing residues [and post-consumer wood*]” as proposed under Issue #12	Only briefly discussed in Task Team, but it seems possible to accept the Issue #12 proposals on “Wood fuel” and the Issue #13 proposals on all other breakdowns of Section 05 “Biofuels.” Details/potential overlaps need to be addressed
		Include “Post-consumer wood” as a distinct Class under “Wood fuel and wood processing residues”	YES: Post-consumer wood will remain classified in Section 05 “Biofuels” and will have a dedicated Class	Task Team/focus group discussions on Issues #11 & #12
13	Definitions of biofuels	Finalize agreement on proposed restructuring of Section 05, integrating any additional changes from Issue #12	YES: See Issue #12 above	See Issue #12 above
		Group together Transesterified, thermal process, and microalgal biodiesel into tentatively titled “Type A biodiesels”	NO: Do not group “Type A” biodiesels (Transesterified; thermal process; microalgal) to maintain 4-level structure	Only briefly discussed in Task Team, but broad desire to maintain 4-level structure
14	Classification of bio-methane	Include biomethane under Group 0533 “Gas biofuels products”	YES: Agreed to include biomethane under “Gas biofuels products”	Only brief discussion in Task Team, but no objections raised
		Overall re-classification of Gas biofuels, i.e. where were gas biofuels products (biomethane, bio-DME, other products) in the original SIEC; what are the CPC correspondences? Is this a change in scope?	TBD	TBD
15	Classification of synthetic fuels	Finalize agreement on proposal to create new Section for “Synthetic Fuels,” including	YES: Agreed to create new Section for “Synthetic Fuels,” with Hydrogen,	Broad consensus in Task Team discussions

Issue	Title	Pending issues	Tentative decisions	Decisions pending/based on
		Hydrogen, Ammonia, CO2-derived fuels and Synthetic Fuels n.e.c., with no breakdown based on renewability	Ammonia, CO2-derived fuels and Synthetic Fuels n.e.c., and no breakdown based on renewability	
		Decide on the title of this newly created section and the definition/description on synthetic fuels	TBD: Details on the definition/description/scope/title of "Synthetic fuels"	TBD: Some discussion in Task Team, but no consensus reached
		Decide on how to incorporate related decision from Issue 11 on waste: Add products from chemical/thermal transformation under "Synthetic fuels"	YES: Products produced from chemical/thermal transformation of waste to be classified under "Synthetic fuels"	Task Team/focus group discussions on Issue #11
16	Classification of blending and mixed products	N/A, no specific changes proposed	N/A	N/A
17	Review the breakdown of biogases	Rename Division 053 from "Biogases" to "Gas biofuels"	YES: Agreed to rename to "Gas biofuels"	Broad consensus in Task Team discussions
		Break down "Gas biofuels" into "Biogas from anaerobic digestion," "Biogas from thermal processes" and "Gas biofuels products"	YES: Agreed to break down Gas biofuels Division into these three Groups	Broad consensus in Task Team discussions
10 & 18	District cooling as an energy product	Add "Cold" to Section 08 "Heat" and rename Section to "Heat and cold"	YES: General agreement to add "cold" but details need to be clarified, i.e. would it include only "district cooling"?	TBD: Some discussion in Task Team, but no consensus reached
	Overall review of classification of renewable energy products	MODIFIED PROPOSAL: A) Add breakdown of "07-Electricity" from these sources: <ul style="list-style-type: none"> • Hydro (w/ pure/mixed/pure pumped breakdown) • Marine energy • Wind (onshore/offshore breakdown) • Solar (solar PV/solar thermal breakdown) • Geothermal • Combustible (biogenic/non-biogenic breakdown) • Nuclear 	Tentative agreement in Task Team	TBD: Further discussion required

Issue	Title	Pending issues	Tentative decisions	Decisions pending/based on
		<ul style="list-style-type: none"> • Synthetic • Other (?) <p>B) Add breakdown of “08-Heat” from these sources:</p> <ul style="list-style-type: none"> • Solar thermal (w/ pure/mixed/pure pumped breakdown) • Geothermal (deep/shallow breakdown) • Hydrothermal (river and lake/sea and ocean breakdown – or move under “Other”?) • Aerothermal • Other heat <p>C) Add “Cold” with “Heat” but do not include any breakdown for now as this is an emerging category</p>		
	Other	Finalize CPC/HS correspondences	TBD	TBD