



SDI Review Form 1.6

Journal Name:	Asian Journal of Environment & Ecology
Manuscript Number:	Ms_AJEE_31400
Title of the Manuscript:	Life Cycle Assessment of Supercritical Coal Power Plant with Carbon Capture and Sequestration in China
Type of the Article	Short Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	The manuscript is generally well written. logically organized, and adequately illustrated, need only few and minor corrections before publication.	
Minor REVISION comments	Lines 137 and 139- When we read EcoIndicator 99 methodologies", we must read "Eco-Indicator 99". Table 3- When we read "Converts LCI data on PO₄, NO, NO₂, Nitrates and NH₄ to phosphate (PO₄) equivalents", we must read "Converts LCI data on PO₄³⁻, NO, NO₂, Nitrates and NH₄⁺ to phosphate (PO₄³⁻) equivalents". When we read "NO_x, HCL, HF, and NH₄ to hydrogen (H⁺) ion equivalents.", we must read "NO_x, HCL, HF, and NH₄⁺ to hydrogen (H⁺) ion equivalents.". When we read "Converts LCI data on radioactive substances to U₂₃₅ equivalents.", we must read "Converts LCI data on radioactive substances to ²³⁵U equivalent.". When we read "trichlorofluoromethane (CFC₁₁₅) eq.", we must read "trichlorofluoromethane (CFC-11) equivalent". The conversation was into CFC-115 (the 1-chloro-1,1,2,2,2-pentafluoroethane)? When we read "Converts LCI data on TOC, heavy metals, smoke, dust and spores to PM₁₀ eq.", we must read " "Converts LCI data on TOC (Total Organic Carbon), heavy metals, smoke, dust and spores to PM10 equivalents". When we read "Converts LCI data on substances like benzene, ethanol, cyclohexane and acetone to NMVOC₆ eq.", we must read "Converts LCI data on substances like benzene, ethanol, cyclohexane and acetone to NMVOC (Non Methane Volatile Organic Compounds) equivalents". What is the meaning of the number 6 on NMOC₆? Line 152- I don't understand the meaning of the sentence: "From Table 4,	The conversion was into trichlorofluoromethane (CFC-11)



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	CCS performed better in both ionization radiation and ozone depletion potentials.". The author or authors want to say that Carbon Capture and Sequestration has a negative impact on ozone formation and the diminution of UV radiation that arrives to the surface? Please clarify the sentence. Line 167- When we read "Various toxicity potentials for CCS record increases of 33 % - 440 % as", we must read "Various toxicity potentials for CCS record increases from 33 % to 440 % as". Line 176- When we read "and methane emission", we must read "and methane emissions". Line 178 – When we read "Furthermore, coal supply chain and solvent production are the factors for high fossil, water and metal", we must read "Furthermore, coal supply chain and solvent production are the factors for high fossil fuel, water and metal". Line 212- On the reference list, all the author should be mentioned. The reference "Viebahn P, Nitsch, J, Fishedick M, Esken A, Schuwer D, Supersberger N et al.", need to be completed with the others authors.	NMVOC₆ should have read NMVOCs rather Line 152- Application of CCS technology reduced ionization radiation and ozone depletion potentials. Hence CCS performed better because of lower values of impact potentials compared to supercritical. Line 178- The impact categories are fossil depletion, water depletion and metal depletion. Therefore we must read "Furthermore, coal supply chain and solvent production are the factors for high fossil, water and metal depletion potentials."
<u>Optional/General comments</u>		