



SIMAP DATA REVIEW REPORT

5.24.2022

| INSTITUTION NAME | DATE OF DATA REVIEW CALL | TYPE OF DATA REVIEW |
|-----------------------------------|--------------------------|---------------------|
| The University of Texas at Austin | 05/19/2022 | First data review |

Thank you for completing a Data Review with the SIMAP team! Below, please find our recommendations for next steps to finalize your carbon and nitrogen footprint calculations. Once you have addressed these items, please confirm by email to simap@unh.edu. Once we agree that your inventory is finalized, we will check the box on the status page in SIMAP indicating the review is complete for the applicable years. In the Appendix, you can see the full list of items we assessed as part of your Data Review.

Summary:

Your greenhouse gas inventory is looking great! You have consistent and comprehensive tracking over time, and the trends can be explained by changes in campus activity (e.g., new building construction). We identified two critical updates to improve the accuracy of your footprint: Switching to the market-based method for scope 2, and updating your commuting data during Covid shutdowns to better reflect actual commuting patterns. The rest of our recommendations below are for best practices to improve transparency, documentation, and consistency.

| CATEGORY | CRITICAL UPDATE |
|--------------------------------|---|
| Scope 2: Purchased Electricity | We recommend using the Market-Based Method with a custom supplier-specific emissions factor. Austin Energy publicly reports its CO2 emission factor already, and it is lower than your regional average. You can enter your supplier specific emissions factor on the Data Entry tab > Utility Emission Factors page . See the scope 2 methods page for more information about the market-based method. |
| Scope 3: Commuting | We recommend adjusting your commuting numbers in 2020 and 2021 to reflect COVID shutdowns. We recommend having 2 entries by commuter type per year: one for normal commuting patterns, and another for commuting patterns during shutdowns. It is fine to use estimates of reductions (e.g., 90% fewer students are commuting). Please be sure to document any assumptions. See the 2020 commuting guidance page for more information. |



| CATEGORY | RECOMMENDATION |
|---|--|
| Super Computer Usage | We recommend tracking the super computer electricity usage on a separate line item for transparency - and it would also be really interesting! |
| Scope 1: Fertilizer | We recommend adding notes to explain fluctuations. |
| Scope 1: Transport Fuels | We suggest reviewing the FY10-11 figures to explain the low fuel usage those years. |
| Scope 1: Stationary Fuels | We recommended deleting a test entry in 2016, which was 5,000 MMBtu natural gas. This was deleted during the call, so no further action is needed. |
| Scope 1: Refrigerants and Chemicals | We recommend adding notes to explain fluctuations. |
| Scope 3: Waste and Wastewater | Landfill Waste: We recommend adding notes to explain fluctuations. Wastewater: We recommend adding notes that explains the decrease due to COVID. |
| Scope 3: Business Travel and Study Abroad | Air Travel: We suggest making a note explaining the drop due to Covid. |
| Notebook Page | We recommend usage for historical data review tracking purposes. The Notebook can be found on the Account tab > Notebook page. |

Please contact us at simap@unh.edu with any questions.



APPENDIX: SUMMARY OF ITEMS ASSESSED

SIMAP TAB: ACCOUNT

| PAGE | CATEGORY | REVIEWED | NOTES |
|----------------|---------------------------|----------|---|
| Institution | Basic account information | Yes | Main Campus and pickle research campus. Both are accounted for across all years, back to 2009. We recommend Tier 2 in the future for transparent documentation. |
| | Zip code | Yes | Correct. |
| Notebook | Notebook entries | Yes | We recommend usage. |
| Normalizations | Budgets | Yes | Correct. |
| | Physical Spaces | Yes | Correct. |
| | Populations | Yes | Correct. |

SIMAP TAB: DATA ENTRY

| SCOPE | CATEGORY | REVIEWED | NOTES |
|---------|--------------------------|----------|---|
| Scope 1 | Stationary Fuels | Yes | We suggested deleting a test entry in 2016, which was 5,000 MMBtu natural gas. Resolved during call - no action needed! |
| | Transport Fuels | Yes | Recent decline is due to efforts to reduce fleet and switch to renewables. |
| | Fertilizer | Yes | Landscape services team had a new manager start a few years ago, and they significantly reduced fertilizer application. Earlier fluctuations due to trying out different methods. |
| | Animals | N/A | Not in use. |
| | Refrigerants & Chemicals | Yes | Completed a phaseout plan in 2015, and upgraded Pickle recently. This explains some of the changes. |
| Scope 2 | Utility Consumption | Yes | CRITICAL UPDATE: We suggest using the market-based method with a |



| | | | |
|---------|--------------------------------|-----|---|
| | | | supplier-specific emissions factor. The good news is that Austin Energy publicly reports its CO2 emissions factor already, and it is lower than your regional average! |
| | Renewable Energy | Yes | N/A |
| Scope 3 | Commuting | Yes | CRITICAL UPDATE: We recommend adjusting your commuting numbers in 2020 and 2021 to reflect Covid shutdowns. We suggest having 2 entries by commuter type per year: One for normal commuting patterns, and a second for commuting patterns during shutdowns. It is fine to use estimates of reductions (e.g., 90% fewer students are commuting). Just be sure to document any assumptions. |
| | Business Travel & Study Abroad | Yes | We suggest making a note explaining the drop due to Covid. |
| | Student Travel to/from Home | N/A | Not in use. |
| | Food | N/A | N/A |
| | Paper | N/A | N/A |
| | Waste & Wastewater | Yes | No CH4 Recovery after FY05. This was due to a change in the supplier. They are trying to update this in the future. |
| Sinks | Compost | Yes | N/A |
| | Non-Additional Sequestration | N/A | Not in use. |
| | Offsets | N/A | Not in use. |

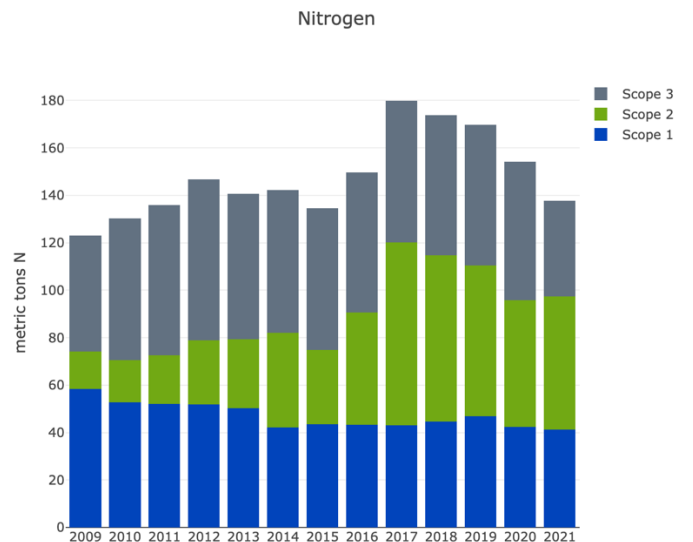
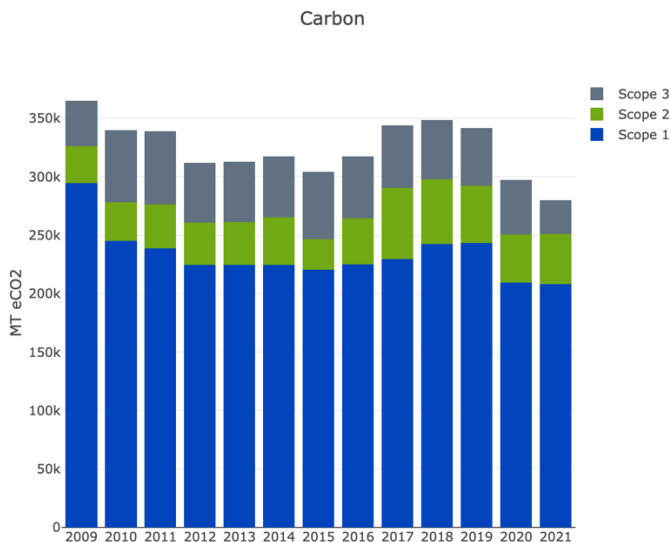
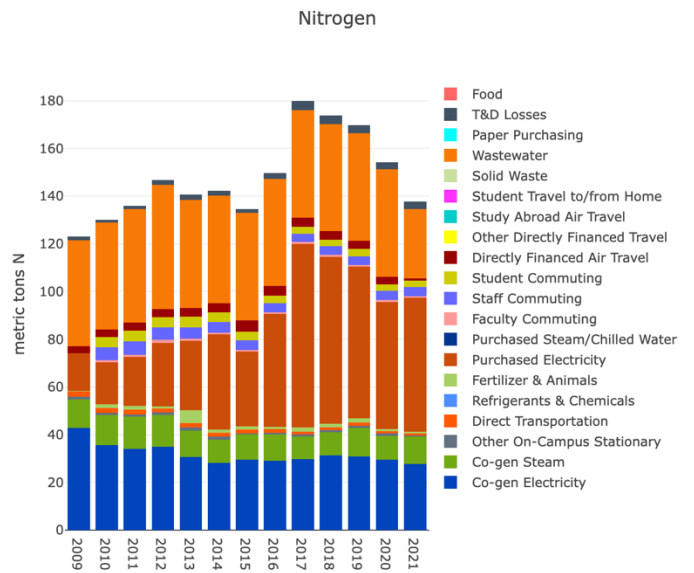
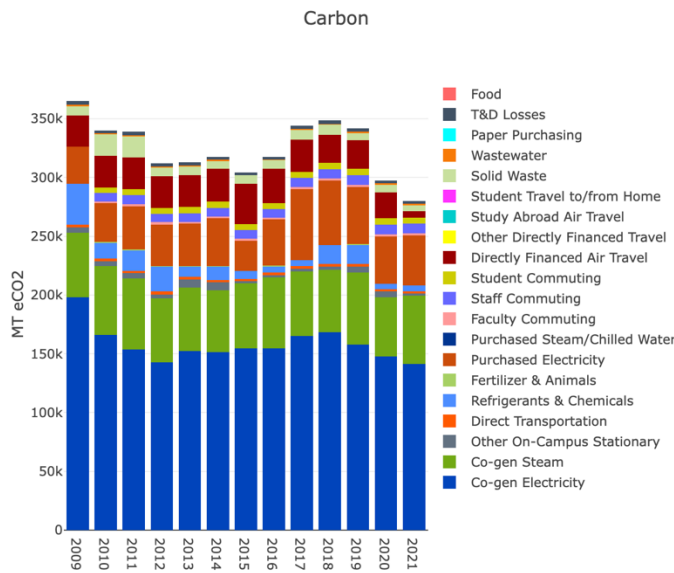
SIMAP TAB: DATA MGMT

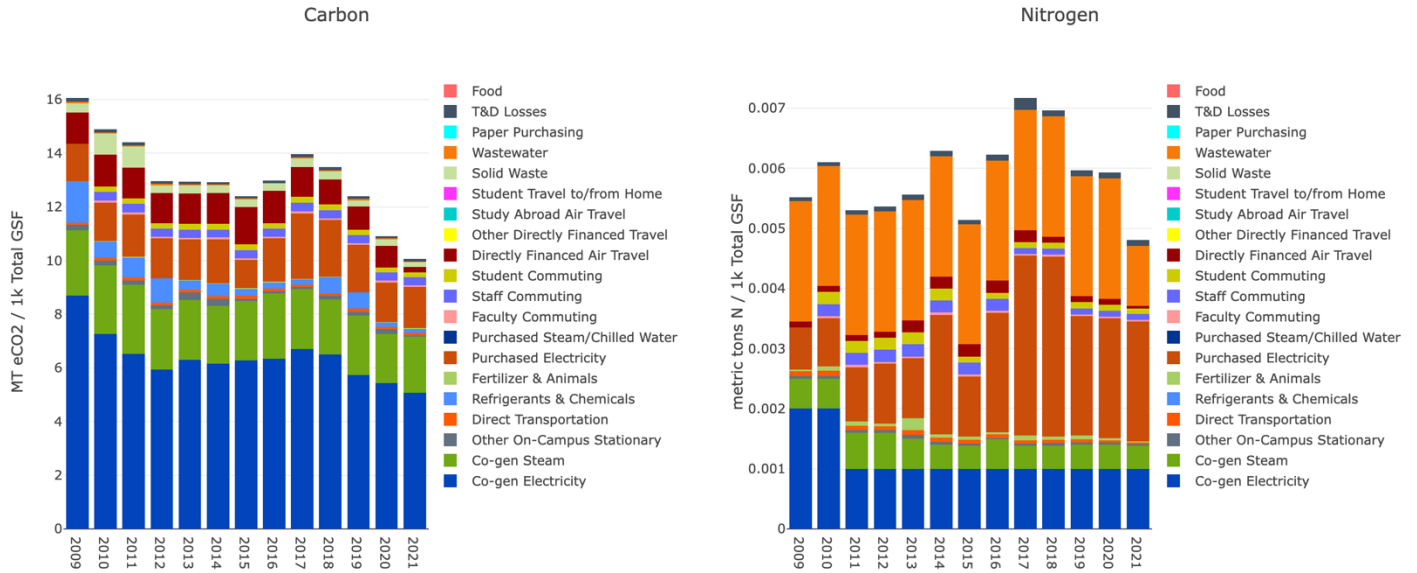
| PAGE | CATEGORY | REVIEWED | NOTES |
|---------------------------------|----------------------------------|----------|------------------------------------|
| Calculation Sources and Methods | Emission factors version | Yes | N/A |
| | Global warming potential version | Yes | N/A |
| | Scope 2 method | Yes | Please see Critical Updated above. |
| | eGrid region | Yes | Correct. |
| Status | Status of years | Yes | N/A |



| | | | |
|------------|----------------|-----|---|
| Import Log | Files imported | Yes | We recommend updating so it is consistent with inputs in SIMAP. |
|------------|----------------|-----|---|

SIMAP graphs downloaded 05/23/22:





Overall data has an increase trend fiscal years 17-18 was due to the Medical school and large engineering building during this time period.