State Inventory Tool (SIT) Change Log

In June 2026, CGS published V2026.1 of the CGS State Inventory Tool (SIT), an updated version of EPA's SIT[1] extended to include 1990–2023 data. EPA no longer maintains its SIT, and CGS plans to continue to update the tool. This change log documents those revisions.

Table 1 lists changes made since publication of V2026.1 on June 24, 2026, including updates and corrigenda to the modules and user guides, with the date of each change. **The log is current through September 18, 2026.** For historical reference, **Table 2** lists the changes CGS made to EPAs SIT in developing V2026.1.

Table 1. Changes to the CGS SIT Since Release of V2026.1

Date	Module/ Guide(s)	Sector	Flag by	Corrected Version	Update Notes
9/18/2026	Module	Coal	USCA	2026.2	Updated lookup range in source sheet for CH4 from Coal Mining.
9/18/2026	Module	LULUCF	USCA	2026.2	Refreshed to ensure default check boxes work.
9/18/2026	Module	Natural Gas and Oil	USCA	2026.2	Updated formula for Total Emissions on the Emissions Factors table, 2016 was incorrectly hardcoded (legacy issue).
9/18/2026	Module	IPPU	USCA	2026.2	Hid "Summary, MTCE" tab and updated cell references for limestone and dolomite.
9/18/2026	Module	Mobile	USCA	2026.3	Corrected 2021 total construction gas consumption and the macro to paste data on the "HWY 2" tab.
9/18/2026	User guides	Agriculture, CO2FFC, IPPU, Electricity, NGO, LULUCF, Solid Waste, Stationary, Wastewater, Mobile	USCA	User Guide	Corrected equations, export data step description, and cross reference link errors.

[1] The EPA SIT was published in January 2025, updating data through 2022. It is no longer being updated by EPA but continues to be available for download at https://www.epa.gov/statelocalenergy/download-state-inventory-and-projection-tool.

7/23/2026	Module	Mobile	Mass DEP; UMD	2026.2	Updated locomotive fuel lookups for residual and diesel fuel (legacy issue).
8/25/2026	Module	Solid Waste	NC DEQ	2026.2	Corrected formulas for 1992 and 1997 on the CO2_Plastics tab (specifically fixed 1992 and 1997 CO2_Plastics macros that were pasting data into one row higher than intended).
6/26/2026	Module	LULUCF	NC DEQ	2026.2	Updated SUM formula on Land Converted to Forest Land first table to be consistent through 2025. Previously, the formula was consistent only through 2020. This is a formula correction rather than a data or methodological change.
6/25/2026	Module	Electricity Consumption	NA	2026.1	First version uploaded
6/25/2026	Module	Stationary Combustion	NA	2026.1	First version uploaded
6/25/2026	Module	CO2 from Fossil Fuel Combustion	NA	2026.1	First version uploaded
6/25/2026	Module	Solid Waste	NA	2026.1	First version uploaded
6/25/2026	Module	Wastewater	NA	2026.1	First version uploaded
6/25/2026	Module	Coal	NA	2026.1	First version uploaded
6/25/2026	Module	Natural Gas and Oil	NA	2026.1	First version uploaded
6/25/2026	Module	Mobile	NA	2026.1	First version uploaded
6/25/2026	Module	Ag	NA	2026.1	First version uploaded
6/25/2026	Module	CO2 from Fossil Fuel Combustion	NA	2026.1	First version uploaded
6/25/2026	Module	LULUCF	NA	2026.1	First version uploaded
6/25/2026	Module	IPPU	NA	2026.1	First version uploaded
6/25/2026	Module	Synthesis	NA	2026.1	First version uploaded

Table 2. Summary of CGS Changes to the EPA SIT in Developing V2026.1[2]

Module/ User Guide(s)	Type of Change	Specific Fix / Revision	Data Source	Detail of Change (methodology / value)	Years Affected
All modules	Data basis refresh	Underlying inventory basis moved from the 1990-2022 national and state-level inventory to the 1990-2023 inventory	Freedom of Information Act (FOIA) request, 2025	All default activity data and emission factors were updated from the previous 1990-2022 EPA national/state inventory inputs to the 1990-2023 data released via FOIA. Default activity data now runs 1990-2023; emission factors are proxied for calculation years 2024-2025 so states can substitute their own data. Because revised inputs are applied across the series, identical state inputs run through the 2025 (EPA) and 2026 (UMD) versions will differ in earlier years, not only the newest year.	Full time series (1990-2023)
All user guides	Citation update	Standardized citations for the FOIA-released state data and the EPA state methodology report	U.S. EPA, DRAFT_AllStateGHGData_90-23 (FOIA-released); U.S. EPA, Methodology Report for Inventory of U.S. Greenhouse Gas Emissions and Sinks by State: 1990-2022 (EPA-430-R-24-006, September 2024)	Two standard citations applied across all user guides and modules: (1) U.S. EPA. DRAFT_AllStateGHGData_90-23. 2025. Unpublished Excel data file released via Freedom of Information Act request; (2) U.S. EPA. 2024. Methodology report for inventory of U.S. greenhouse gas emissions and sinks by state: 1990-2022 (EPA-430-R-24-006). Guides also now reference the UMD GHGIA website consistently.	N/A
All user guides	Structure / template	Guides consolidated onto a common template; duplicated front matter removed	N/A - documentation change	Getting Started, Export Data, and Annex sections removed from each individual module guide and consolidated into a single Getting Started User Guide. Module Overview text standardized on the Electricity Consumption module version. TOC, cross-references, figure numbers, headers/footers, and equation-box symbols updated throughout. Pop-up splash text moved from the module pop-up to a Notes tab (frmsplash removed from VBA).	N/A
Agriculture	Methodology correction	Manure management	FOIA'd U.S. GHGI Manure_CH4-	To prepare simplified MCF estimates, the manure% tab was pulling from the WMS Nex Distribution tab, where manure	Full time series

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		weighted methane conversion factor (MCF) corrected so anaerobic digester volumes no longer combined with anaerobic lagoon / deep pit systems	N2O_Output_1990-2023_State file, WMS VS Distribution tab; cross-checked against Annex 3.12, Tables A-157 and A-158 of the 1990-2023 Annex	allocated to Anaerobic Lagoon was erroneously combined with Anaerobic Digesters. Because anaerobic digesters carry an MCF of 0% while anaerobic lagoons (dairy) and deep pit (swine) carry the highest liquid-system MCFs, the blended allocation roughly doubled manure methane in states with high digester penetration (e.g., California dairy, Utah swine). Fix: the supporting spreadsheet was repointed to the WMS VS Distribution tab, where Anaerobic Lagoon is reported separately from Anaerobic Digesters, so manure% now picks up only the Anaerobic Lagoon share. Worked example - California dairy cattle, 2022: SIT previously showed that 54% of manure was allocated to Anaerobic Lagoon systems, with the 30% digester share folded into this anaerobic lagoon system distribution percentage; corrected to the 24% anaerobic lagoon share reported in GHGI Table A-157, with the 30% digester share excluded entirely.	
Agriculture	Data update	Enteric fermentation emission factors refreshed	FOIA'd U.S. GHGI Enteric_Outputs_90-2023.xlsx	Enteric fermentation emission factors updated against the 1990-2023 enteric outputs file as part of the standard annual data refresh.	Full time series
LULUCF	Emission factor replacement	Burning emission factors (g/kg dry matter combusted) replaced to align with IPCC guidance	2006 IPCC Guidelines, Volume 4, Chapter 2, Table 2.5	The emission factors in the Burning Data tab did not align with the 2006 IPCC Guidelines and could not be traced. Factors were replaced with IPCC Table 2.5 values: Savanna values aligned to 'Savanna and grassland'; Forest values aligned to 'Tropical forest'; All Vegetation Types set to the average.	Full time series
LULUCF	Data gap-fill methodology	Forest land converted to wetlands/settlements scaled from last available USFS state data	USFS state data (1990-2022) scaled against 1990-2023 totals for lands converted to wetlands/settlements	State-level USFS data for forest land converted to wetlands and settlements was only available through 2022. Method adopted per CGS staff John Steller's expert judgement: use the last available 1990-2022 USFS state data for these specific categories and scale based on the 1990-2023 total lands converted to wetlands/settlements. Method documented on the module's Data Sources tab. If additional 1990-2023 state data is released by USFS, a further data update can be made.	2023
Solid Waste	Methodology revision	Closed landfill emissions now represented after 2020	Landfill methodology (module); LMOP data	Under the prior methodology, emissions from closed landfills dropped out of the series after 2020. The methodology was revised so closed-landfill emissions continue to be represented beyond that point. States with a meaningful share of closed capacity will see higher post-2020 estimates than the 2025 version produced.	2020 onward

Solid Waste	Data proxy	LMOP data proxied from 2022 where newer values were unavailable	EPA Landfill Methane Outreach Program (LMOP)	Where 2023 LMOP values were not yet available, 2022 values were proxied forward, following the standard convention of marking proxied cells in red font with an accompanying note.	2023
Wastewater	Default value update	Control tab default for fraction of population not on septic updated	FOIA'd U.S. GHG Inventory (annual standard value)	The value is applied across the time series in both CH4 and N2O calculations and is pulled from the U.S. GHG Inventory. It is a standard annual value reviewed and updated in the annual national GHG inventory, not a methodological change. The factor remains editable on the Control tab, so a state with its own septic-service population data can override the default.	Full time series
Wastewater	Documentation clarification	Woodpulp guidance added to the Industrial WW P&P sheet	N/A - documentation change	Added clarification that woodpulp should be market woodpulp, to avoid double counting with Paper & Paperboard, along with suggestions on where to find the data.	N/A
Natural Gas and Oil	Legacy conversion error corrected	Offshore platform emission factors corrected - unit conversion error	EPA memorandum, 'Inventory of US Greenhouse Gas Emissions and Sinks 1990-2013: Revision to Offshore Platform Emissions' (2014 scfd/platform factors from the 1990-2014 GHG Inventory)	UMD found the tool calculating much higher offshore oil and gas emissions than GHGIA. Review of historical GHGI files identified a legacy conversion error in SIT: emission factors for offshore shallow-water and deepwater gas platforms were applying the 2014 scfd/platform factors without conversion. The module was updated to convert these factors to MTCH4/platform, materially lowering offshore EFs and bringing them into alignment with the previously-used U.S. GHGI calculation.	Full time series
Natural Gas and Oil	Label clarification	Transmission label clarified to state that it includes processing and gathering	N/A - documentation change	UMD noted that 'gas transmission' obscures the fact that processing and gathering emissions are included, though the Control tab emission factors and Transmission tab calculations both list them explicitly. Label/adjacent text updated to indicate that, for purposes of the tool, transmission calculations include processing, gathering, and transmission and storage. Breaking out processing and gathering as separate categories was logged as a future improvement.	N/A
CO2 from Fossil Fuel Combustion	Data source correction	Diesel fuel repointed to the SEDS fuel code that excludes biodiesel	EIA State Energy Data System (SEDS); see EIA SEDS release notes (https://www.eia.	SEDS now includes biodiesel in transport diesel. The module was updated to pull from the SEDS fuel code that excludes biodiesel, with explanatory notes added to the Default State Energy Data tab. (Ethanol was already removed from gasoline.)	Full time series

			gov/state/seds/sep_use/notes/use_whatsnew.pdf)		
CO2 from Fossil Fuel Combustion	Data treatment change	Pentanes plus zeroed out across the time series for industrial HGL	EIA SEDS	Consistent with the treatment applied at the national level (where pentanes plus and unfinished oils are zeroed across the series), pentanes plus was zeroed out across the time series in the industrial HGL data, with an explanatory note added.	Full time series
Stationary Combustion	Data treatment change	Same SEDS notes and pentanes plus treatment applied as in CO2FFC	EIA State Energy Data System (SEDS)	The same updates made to CO2FFC were applied here: notes revised and pentanes plus zeroed out across the time series.	Full time series
IPPU	Data source substitution	FOIA'd GHG Inventory CSVs	FOIA'd GHGI published csv tables; DRAFT_AllStateGHGData_90-23 (FOIA-released)	IPPU inputs were sourced from published CSVs in the FOIA'd U.S. GHG Inventory: Annual Soda Ash Consumption (Tables 4-14 glass manufacturing and 4-20 other uses); Annual Trona Production (Table 4-53, with trona ore use assumed equal to production); Annual Limestone and Dolomite Consumption by type (Tables 4-18 and 4-14); Total limestone and dolomite consumption (summed across Tables 4-18 and 4-14, as no explicit total is published); Annual high-calcium and dolomitic adjusted production (Table 4-10); Total U.S. fluorinated compound emissions from semiconductor manufacture (Table 4-118, row 15); Total U.S. SF6 emissions from electric power and distribution systems (Table 4-1, electrical equipment row). Regional production-based ODS substitutes estimates were taken from DRAFT_AllStateGHGdata_90-23, 'Data by Inv Reporting Sectors' tab, filtered to IPPU and ODS Subs and summed to state level.	Full time series