SIMAP and Second Nature Webinar: Reporting





Outline

- SIMAP background
- Second Nature background
- Transferring your SIMAP data to the Second Nature Reporting Platform
- Q&A







The SIMAP Team



Alley Leach

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Cassidy Yates
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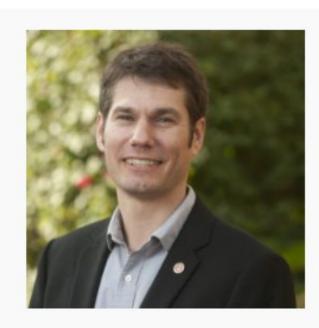


Bailey Jones
Undergraduate student,
SIMAP intern





The Second Nature Climate Programs Team



Steve Muzzy
Climate Programs Senior Manager



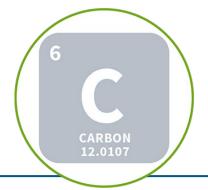
Andy DeMeo Climate Programs Data Manager



What is SIMAP?

A carbon and nitrogen accounting platform that can track, analyze, and improve your campus-wide sustainability

SIMAP combines two tools:





- Developed in 2001 at UNH
- Excel and web version
- Used by thousands of institutions



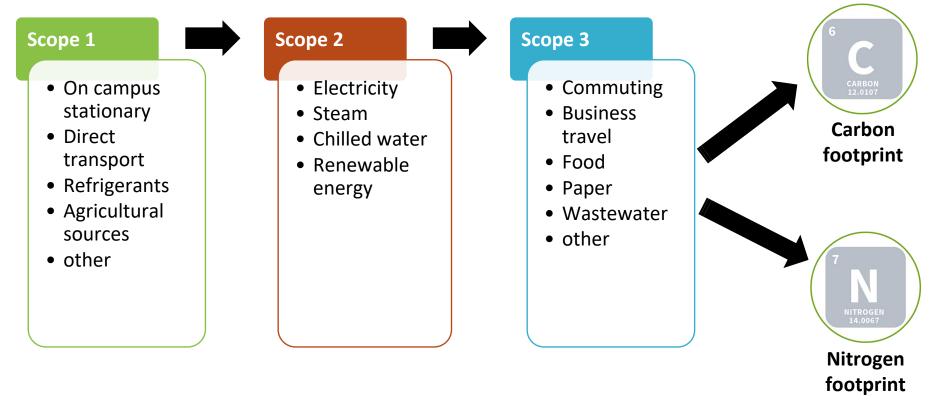


- Developed in 2009 at UVA
- Excel-based
- Used by 20 institutions
- Completed pilot testing



How does SIMAP work?

Enter your activity data:





STARS credit for GHG inventory, N footprint (exemplary practice), air quality (NOx emissions), purchased goods (food), third party GHG inventory review (Data Review)



Steps for calculating your campus' footprints



My account Log out

SUSTAINABILITY INDICATOR MANAGEMENT & ANALYSIS PLATFORM

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- 1. Account tab: Enter your institution information
- 2. Data entry tab or data import: Enter your inventory data
- 3. Data Mgmt tab: Select methods
- 4. Results tab: View your results
- 5. Reports tab: View 'packaged' results



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SIMPLIFYING SUSTAINABILITY DECISIONS

SIMAP[®] is a carbon and nitrogen-accounting platform that can track, analyze, and improve your campus-wide sustainability. Our proven algorithms, based on nearly two decades of work supporting campus inventories with the Campus Carbon Calculator, CarbonMAP and Nitrogen Footprint Tool, will help you:

- Create a baseline
- · Benchmark your performance
- Create reports
- Set goals
- · Analyze your progress year over year

GET STARTED!

YOUR CAMPUS FOOTPRINT



CO2 emissions from generating power, treating waste, daily commuting, and even the use of paper, contribute to a campus' carbon footprint. Reducing these greenhouse gas emissions will help slow the effects of climate change and global warming.



NITROGEN

Reactive nitrogen can result from everyday activities like food service, energy use, transportation, and ground fertilizer. Reducing your nitrogen footprint can provide benefits to air quality, water quality, and climate change.

NEWSFEED

Register here for our <u>upcoming webinar with Second Nature</u> on <u>reporting</u>, to be held Tuesday April 20th at 2pm ET

New graph views are now on the Results tab: <u>Gross</u> Footprint and Net Footprint

Register here for 'Intro to Carbon Footprinting,' a half-day virtual course on May 6th with SIMAP team members Jenn Andrews and Alley Leach

Check out the <u>slide set</u> and <u>recording</u> of the February 2021 SIMAP webinar on new functionality

Read our <u>January 2021 newsletter</u> with announcements on new functionality!

We released new functionality on January 19, 2021 including the 2020 version of emission factors, biogenic updates, 20-year GWPs, air travel methods selections, and commuting data entry guidance. More details are coming in a newsletter this Thursday.

Basic accounts were discontinued on January 4, 2021. Contact us at simap@unh.edu with any questions, or to apply for a need-based Tier 1 fee waiver.

Read our latest guarterly newsletter from November 2020.

Want to learn more about the 2019 version of emission factors? See this <u>table summarizing all 2019 EFs</u> and this list of references.

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Secondary Campuses

Custom Tags

Manage Users

Notebook

NORMALIZATIONS



Budgets

Physical Spaces

Populations

PROGRAMMATIC

Goals

Initiatives

Institution

Describe your institution to provide context and enable normalized results. Some inputs are mandatory in order to calculate your footprints, and some are optional. The more information you provide, the more complete your results will be. We also use these data sets to facilitate comparisons within an aggregated campus sustainability data set. When you view your results, you can normalize them using the budget, building space, population, and meal information you enter here.

Institution type *	Subtype	Enter basic information about
Education	→ Doctorate Granting Universities	your campus on the institution
Is this institution private or public? * • public • private	Official Account 3 * Yes No	page (e.g., institution type, zip code)
Institution Name *		
University of New Hampshire		Enter normalizations data here
Select a name from the dropdown. If your institution is not listed, select	'Other - not listed" and enter the full legal name of the institution.	

Main Campus Click here to manage secondary campuses	
Country *	ZIP Code (for purchased electricity eGRID) *
United States of America	∨ 03824
Campus Setting	Climate Zone
Small Town	Zone 5 (cool)
Settlement hierarchy	IECC Climate Zone Map

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FILTER

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SCOPE 1

Stationary Fuels -

Cogen Efficiencies and Outputs

Transport Fuels

Fertilizer

Animals

Refrigerants & Chemicals

SCOPE 2

Utility Consumption

Renewable Energy

SCOPE 3

Commuting

Business Travel & Study Abroad

Student Travel to/from Home

Food

Paper

Waste & Wastewater

SINKS

Compost

Non-Additional Sequestration

Offsets

CALCULATION FACTORS

Scope 1: Stationa	ary Fuels Data
-------------------	----------------

ENTER DATA

- All -

Physical Spaces

Athletic Dining

Filter by start date >= YYYY-MM-DD	Filter by end date <= YYYY-MM-DD	Filter by
		- Any
Filter by tags	Items per page	

20

Click column headers to change sorting.

Two options for entering your data:

- 1) Data Entry tab Individual data points, years
- 2) Import data on the Data Entry tab Bulk data entry using the Data Collection Template from the Resources tab > Tools page

-	Start Date	End Date	Campus	Tags	Category	Source	Label	Quantity	Unit	Confidence	Action
	2019-07- 01	2020-06- 30	Main		On-Campus Stationary Sources	Distillate Oil (#1-4)	Cogen Distillate Oil (#1-4) 2020	234,511.00	US gallon	High	Edit Delete
	2019-07- 01	2020-06- 30	Main		On-Campus Stationary Sources	Distillate Oil (#1-4)	Distillate Oil (#1-4) 2020	52,338.00	US gallon	High	Edit Delete
	2019-07- 01	2020-06- 30	Main		On-Campus Stationary Sources	LPG (Propane)	LPG (Propane) 2020	82,137.00	US gallon	High	Edit Delete
	2019-07- 01	2020-06- 30	Main		On-Campus Stationary Sources	Natural Gas	Cogen Natural Gas 2020	157,991.00	MMBtu	High	Edit Delete

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CALCULATION FACTORS

Emission Factors



Customized Emission Factors

Utility Emission Factors



Food Conversion Factors



Global Warming Potential

Unit Conversions

Emission Factors

View and edit emission factors on the Data Entry tab

Home / Emission Factors

A unique value for scaling emissions to activity data in terms of a standard rate of emissions per unit of activity (e.g., grams of carbon dioxide emitted per barrel of fossil fuel consumed).

Scope *

1

Source *

Direct Transportation Sources: University Fleet: Gasoline Fleet

Emission Type *

CO2

Reference: Direct Transportation Sources: University Fleet: Gasoline Fleet (CO2)

Note: Customizations are to this EF version only. (More information on EF versions)

Version: 2020

Year	Default	Unit	Custom
1990	8.905920	kilogram CO2 / US gallon	
1991	8.905920	kilogram CO2 / US gallon	

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Calculation Sources and



Methods Status

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Import Log

Export Data

Delete Data

Data Review

Shared Files

Calculation Sources and Methods

Select your methods and eGrid region

Emission Factors Version 🔮	Global Warming Potential Version 🔮
2020 (recommended)	AR5 100-year (recommended)
More information on EF versions	More information on GWP versions
Air Travel Cost Version 3 *	Radiative Forcing Factor 1
BTS (recommended)	2.7 (recommended)
More information on air travel cost version	More information on radiative forcing factor
● Market-Based ○ Location-Based ○ Custom Fuel Mix More information on scope 2 methods Main Campus	
eGrid for data prior to 2007 1 *	eGrid for data in 2007 and beyond 5 *
NEWE: NPCC New England	NEWE: NPCC New England
eGrid map for years < 2007	eGrid map for years >= 2007
✓ Include in Second Nature API	



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Footprint		Report Type *					Campus 1 *	Filter by tags
✓ Carbon	✓Nitrogen	Gross footprint ○ Ne	et footprint OSco	pes ○Categor	ies ○Sources ○	Gas/pollutan	t ✓ Main Campus ☐ UNH Law	- All - Physical Spaces Athletic Dining
Scope 2 I	Method 🙃 *		Bioger	nic Graph Ty	pe * Fiscal Ye	ar Range *	Normalization	
	Based Clocation	n-Based ○Custom Fu	uel Mix ✓Shov	w OLine	Bar 2010	- 2019	None	~ CALCULATE
	Tallott Off GOODS & THE	11000					More information on r	normalizations

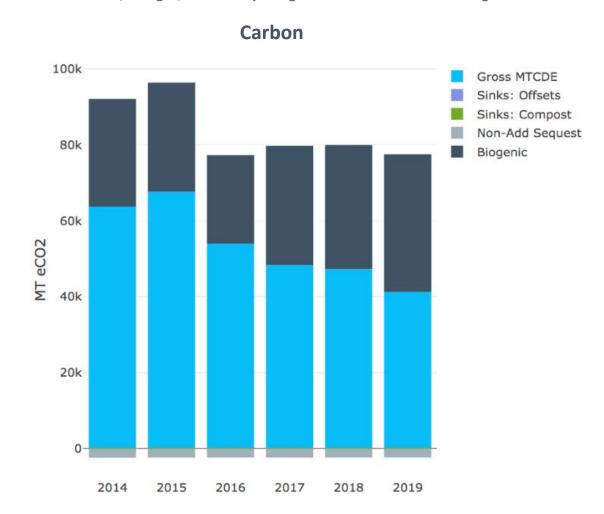
Use the Results tab to see your results with different views (e.g., gross footprint, scopes)

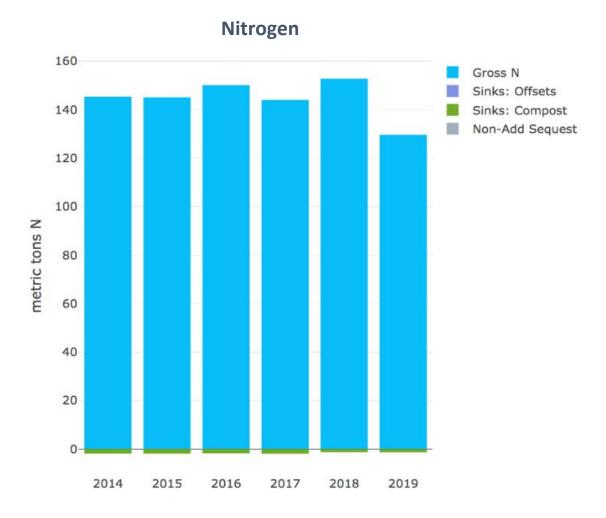
Filter by campus, tags, and year

Select normalizations (e.g., population, GSF)

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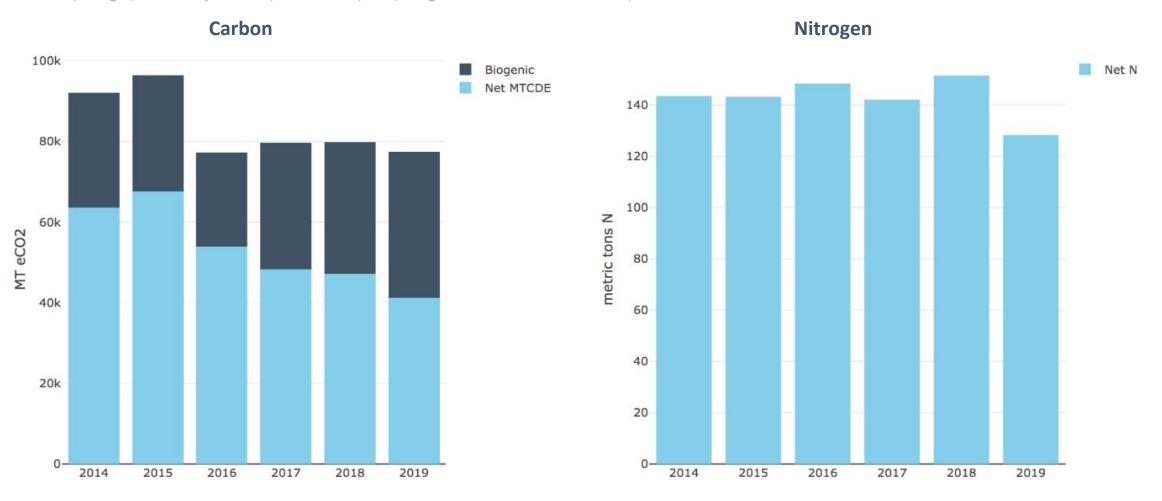
The Gross Footprint graph shows your gross emissions, sinks, biogenic emissions, and non-additional sequestration all on one graph.





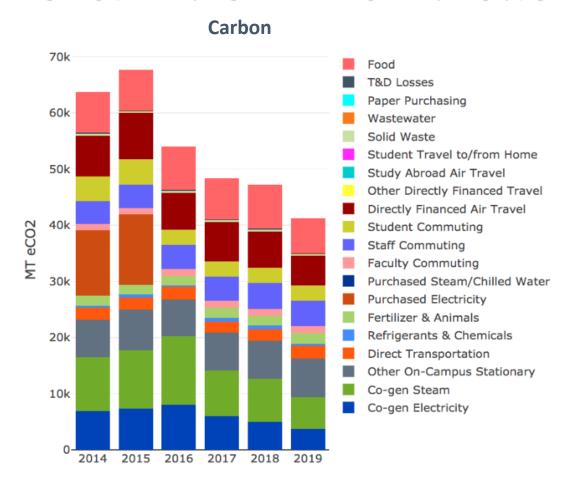
HOME 1. ACCOUNT 2. DATA ENTRY 3. RESULTS REPORTS DATA MGMT ABOUT RESOURCES

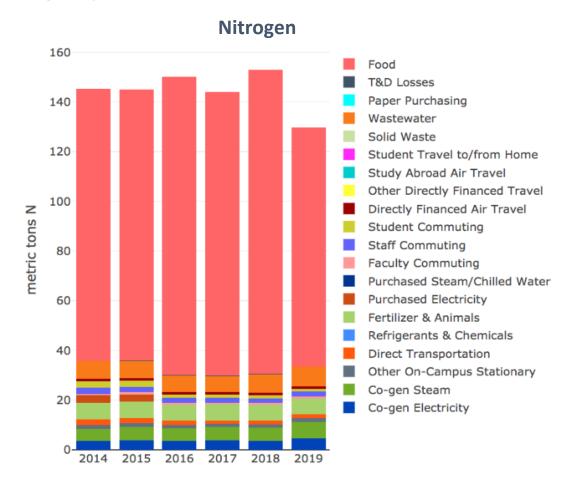
The Net Footprint graph shows your campus' net footprint (i.e., gross emissions minus sinks).



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The Categories graph shows your gross emissions organized by category (e.g., stationary fuels). Sinks are not included.





RESOURCES

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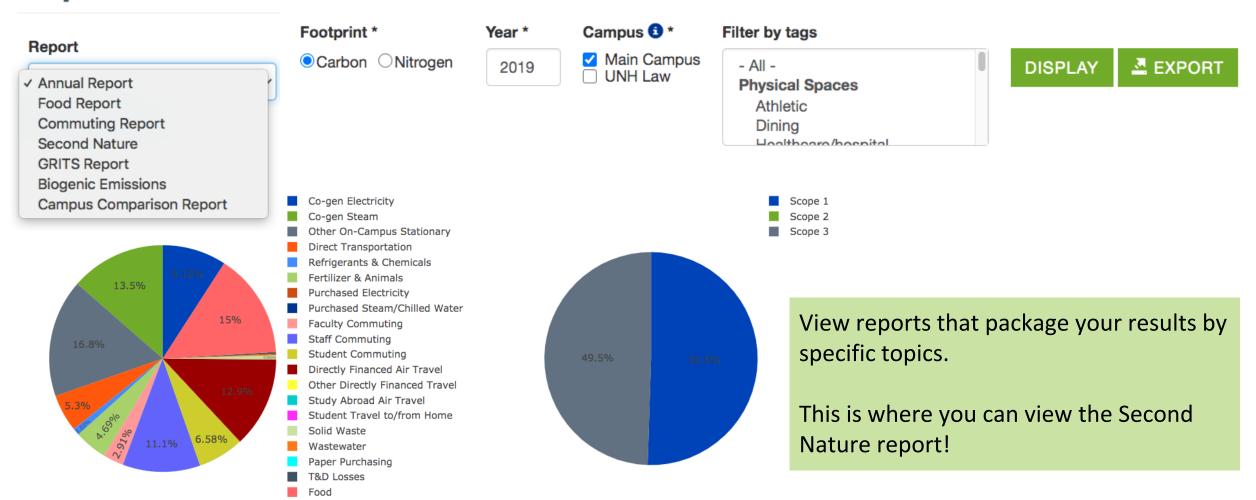
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Tools

Campus Data Collection Template Food Data Collection Template



Users' Guide

Read about using SIMAP, data collection, and more



Training

Watch recorded webinars and view slides about various SIMAP topics



Changes in SIMAP

List of updates



FAQ

See our answers



Support How to contact us



Our Team

The people behind the platform



Glossary

Terms used in SIMAP



Links

Other useful websites



Carbon References

Additional source information



Nitrogen References

Additional source information



Graphs Instructions

Learn how to modifyy the graphs

Request a Data Review

Why do a Data Review with the SIMAP team?

- Structured and systemic evaluation of your data in SIMAP, your results, and any imported files
- Identifies outliers, gaps, inconsistencies, and errors
- Includes a 1-hour video call to discuss your inventory
- Earn 0.625 AASHE STARS points as an independent validation/verification of your institution's GHG inventory!





Check out a 5-minute video about Data Reviews, which can be found on the Data Review page and the Training page

Second Nature



Mission

Second Nature's mission is to accelerate climate action in, and through, higher education

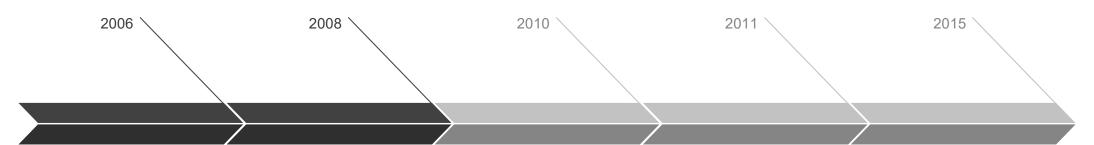






Climate Leadership History





Climate
Commitment
emerges as
ACUPCC with
12 Founding
Signatories

ACUPCC is a national initiatives with signatories from all 50 states

ACUPCC is a
Second Nature
initiates annual
Climate Leadership
Summit, gives
awards recognizing
ACUPCC
institutions for
their innovation
and excellence

Second Nature becomes only supporting organization for ACUPCC

Second Nature
rebrands and
expands ACUPCC
to Climate
Leadership
Network including
three President's
Climate Leadership
Commitments



The Presidents' Climate Leadership Commitments

- **Carbon Commitment:** Eliminating operational greenhouse gas emissions and achieving carbon neutrality as soon as possible.
- **Resilience Commitment:** Formalizing community partnerships to assess climate vulnerabilities and to create a plan to build capacity to deal with a changing climate.
- Climate Commitment: Integrates carbon neutrality with climate resilience

Shared elements of all three commitments: integration of climate action into education curriculum, expanding research efforts, public reporting, and creating and revising a climate action plan.













Climate Leadership Summit

- Previous Summits
 - Tempe, AZ
 - · Atlanta, GA







2021 Climate Action Pursuit

- Remote pursuit will address learning, planning, acting, and leading on climate and justice on campuses, in our communities, and across our social and economy
- Milestone check-in points—February, June, October, and December 2021—to give participants the tools and peer-support to accomplish their climate, resilience, and justice goals.

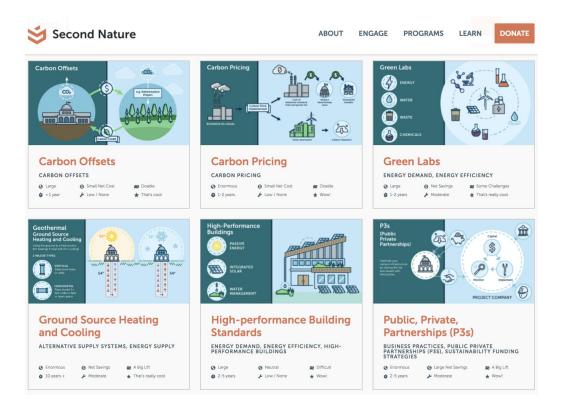


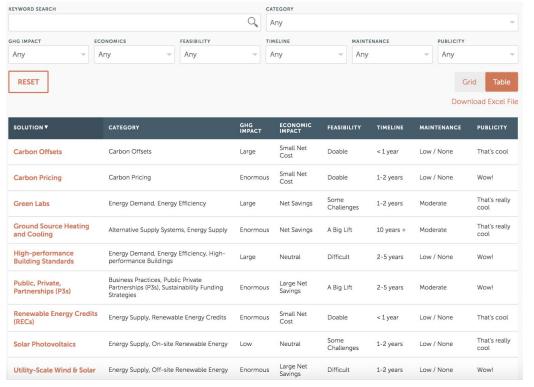




Solutions Center

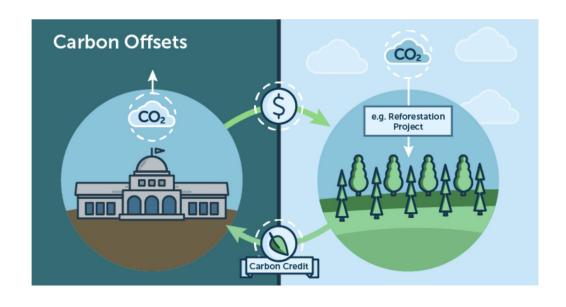
Identification, assessment, and ranking of campus climate solutions for decision makers to prioritize and accelerate climate action.







Solutions Center





A carbon offset is a tradable instrument that represents the reduction or removal of one metric tonne of carbon dioxide equivalent. Carbon offsets fund projects that reduce greenhouse gases, ranging from reforestation to renewable energy investments. Offsets can be bought and sold to transfer climate benefit between entities. Carbon offsets represent a unit of carbon dioxide equivalents and are different from RECs.



Benefits

- Easy short term solution to reach carbon neutrality.
- When done correctly, offsets can fund sustainable projects worldwide.
- Offsets are a mechanism to fund the most cost efficient emissions reductions, regardless of location.

Challenges

- Offsets can be hard to manage and money may be lost to the middleman.
- · Additionality is hard to quantify.
- If projects are far from campus, there may not be a strong connection to the institution.

IMPACTS



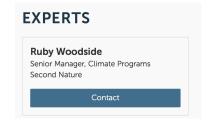














RESOURCES

- Duke Carbon Offsets Project Snapshot



Solutions Center Pro-bono Consulting

- Advance efforts on campus to reduce/eliminate CO2 emissions & decrease operating costs
- Application requires background research and communication with stakeholders to gain buy-in and support
- Six campuses receive pro-bono advisory services worth \$7,500-\$10,000









Climate Solutions Acceleration Fund

Launched in 2020, the <u>Acceleration Fund</u> is dedicated to supporting innovative cross-sector climate action activities driven by colleges and universities.























Reporting Platform



	TOTAL SCOPE 1	TOTAL SCOPE 2	TOTAL SCOPE 3	TOTAL SCOPE 1 & 2	TOTAL SCOPE 1, 2, & 3	TOTAL NET
CHANGE IN EMISSIONS	↑ 100.00%	↑ 100.00%	↑ 145,938.25%	↑ 100.00%	↑ 668,679.38%	♦ 61.18%
PER 1,000 SQ. FT.	↑ 100.00%	↑ 100.00%	↑ 27,779,617.20%	↑ 100.00%	↑ 127,216,584.03%	↑ 3,570.07%
PER FULLTIME ENROLLMENT	↑ 100.00%	↑ 100.00%	↑ 2,920,665.00%	↑ 100.00%	↑ 13,375,487.50%	↑ 166.72%

	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL SCOPE	TOTAL
	SCOPE 1	SCOPE 2	SCOPE 3	SCOPE 1 & 2	1, 2, & 3	NET
HANGE IN EMISSIONS	◆ 2.09%	◆ 42.40%	↑ 33.86%	◆ 37.14%	◆ 28.20%	◆ 29.35%
ER 1,000 SQ. FT.	◆ 18.82%	◆ 52.25%	↑ 10.98%	4 47.88%	◆ 40.47%	♦ 41.42%
ER FULLTIME ENROLLMENT	◆ 15.30%	◆ 50.17%	↑ 15.80%	◆ 45.62%	◆ 37.89%	₩ 38.88%





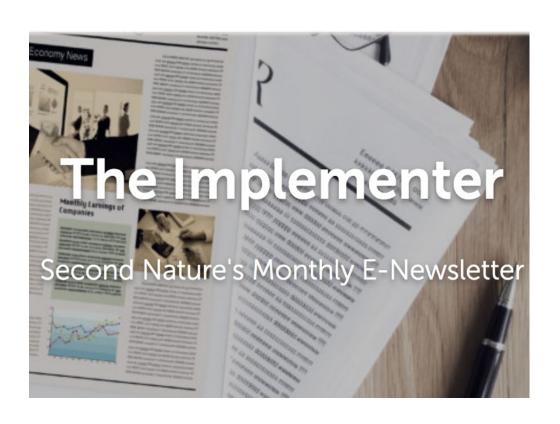
Tools & Resources



Sustainable Energy as a Service: Why Campuses Are Choosing to Own the Solution, not the Equipment

10.22.2020

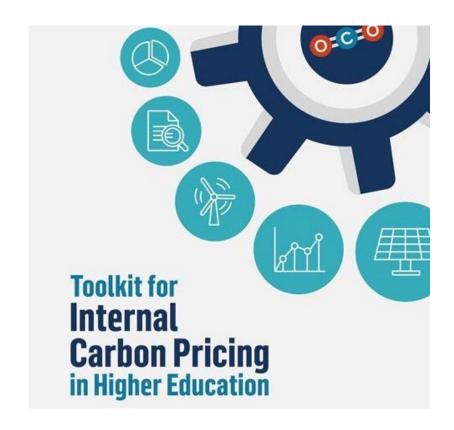
Webinars



Newsletter



Tools & Resources



Toolkits



Carbon Credit and Purchasing Program (C2P2)



University Climate Change Coalition (UC3)





- <u>Coalition</u> of World's leading research universities in North America
- Members pledge to reduce their institutional carbon footprints, commit to convening a crosssector climate forum in their community, and participate in network activities.
- Webinars, Panel Discussions, Assisting local communities



UC3 Schools





































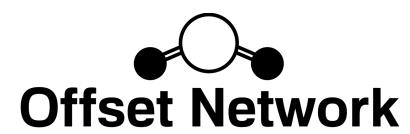
Universidad Nacional Autónoma de México



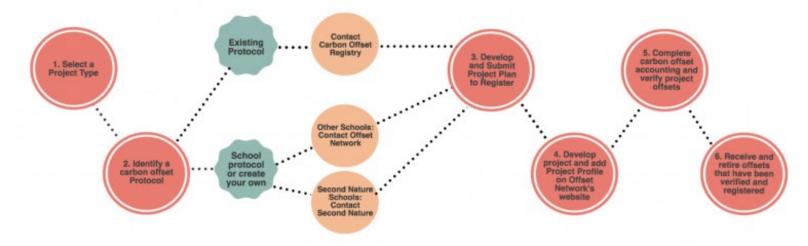




Offset Network



- Develop criteria for reviewing peer-reviewed offset projects
- Organized network of individuals and institutions who can review projects
- Share case studies of existing offset projects and protocols





Non Profit Partnerships













Transferring your SIMAP data

to the Second Nature Reporting Platform







Steps to confirm before you can transfer your data



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- 1. Account tab: Enter your API key
- 2. Data Mgmt tab: Confirm required methods selections:
 - o 2020 version of emission factors
 - Market-based scope 2 method
- 3. Reports tab: View the Second Nature Report
- 4. Data Mgmt tab Status page: Mark the year as complete



1. Account tab: Enter your API key

Second Nature API Key

methods form.

✓ SAVE



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Your API key can be found in the Second

Nature Reporting Platform

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Optionally enter your Second Nature API Key to enable data integration. The

campus(es) to include in the API can be configured on the calculation sources and

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Methodologies used to establish campus boundaries 😏	
Operational Control Approach	~
Briefly explain why you omitted any buildings or other holdings owned, leased, or operated by your institution that should fall within the organizational boundaries.	

2. Data Mgmt tab: Confirm required methods selections



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Calculation Sources and Methods

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Emission Factors Version 1	Glo	bal Warming Potential Version 🤨	
2020 (recommended)	~ A	R5 100-year (recommended)	~
More information on EF versions	More	e information on GWP versions	
Air Travel Cost Version 3 *	Rac	liative Forcing Factor 1	
BTS (recommended)	· 2	.7 (recommended)	~
More information on air travel cost version	More	e information on radiative forcing factor	
Scope 2 Method 3 * Market-Based Custom Fuel Mix More information on scope 2 methods	Cu	quired methods: rrent version of emission factors (2020 arket-based scope 2 method	
Main Campus		arket basea soope 2 memoa	
eGrid for data prior to 2007 1 *	eGr	id for data in 2007 and beyond 3 *	
NEWE: NPCC New England	~ N	IEWE: NPCC New England	-
eGrid map for years < 2007	eGri	d map for years >= 2007	
✓ Include in Second Nature API			

3. Reports tab: View the Second Nature Report



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Confirm your results are correct



Categories

Fiscal Year	Scope	Source	CO2 (kg)	CO2 (MTCDE)	CH4 (kg)	CH4 (MTCDE)	N2O (kg)	N2O (MTCDE)	GHG MTCDE
2019	1	Fugitive Emissions	0	0.00	62,720	1,756.16	676	179.12	2,362.07
2019	1	Mobile Combustion	2,169,665	2,169.66	174	4.88	41	10.78	2,185.32
2019	1	Stationary Combustion	14,909,059	14,909.06	8,330	233.23	4,318	1,144.34	16,286.63
2019	3	Air Travel	5,318,584	5,318.58	58	1.63	61	16.09	5,336.31
2019	3	Commuting	8,387,763	8,387.76	447	12.52	273	72.45	8,472.73

3. Reports tab: View the Second Nature Report

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Nitrogen References

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Second Nature Report

https://unhsimap.org/cmap/resources/second-nature-report

What methods are required for Second Nature reporting?

Second Nature requires that you use the Market-Based Scope 2 Method and the recommended EF version (2019). You will need to make these selections to view your data on the Second Nature Report AND to export your data to Second Nature's Reporting Platform with the API. To change to the recommended scope 2 and EF version, please visit the <u>calculation sources and methods form</u>.

How does my data get from SIMAP to the Second Nature reporting system?

SIMAP generates a report specific to Second Nature reporting under the <u>Reports tab</u>. After you use SIMAP to calculate your emissions data, you can go to the Second Nature reporting system and pull your data in from SIMAP. We call this the Second Nature API. <u>See this document for detailed instructions on how to use the Second Nature API</u>.

A complete of the data points transferred via the API can be found in <u>these instructions</u> and on the reports tab when 'Second Nature' is selected from the reports drop-down. The data points transferred with the API include:

- · Scope 1 emissions (stationary combustion, mobile combustion, fugitive emissions)
- · Scope 2 emissions (purchased electricity, cooling, and steam)
- . Some scope 3 emissions (commuting, air travel [including both directly financed and study abroad air travel])
- · Total purchased electricity consumption and thermal energy consumption
- · Renewable energy purchases and whether those credits were retained
- · Gross square feet of building space
- · Total student enrollment (FTE)

Please note that several data points that are entered into SIMAP and can also be entered in the Second Nature reporting system are not transferred via the API. Those data points include:

- · Biogenic footprint
- · Purchased and sold offsets
- Carbon seguestration
- · Some demographic information (e.g., detailed populations, gross square footage)
- · Purchased goods (scope 3, such as paper, food)
- T&D losses from electricity (scope 3)

If you would like to report those date points in your Appual Drogress Evaluation, then you will pend to enter them page in Second Naturals reporting auctor

4. Data Mgmt tab - Status page: Mark the year as complete



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Export Data

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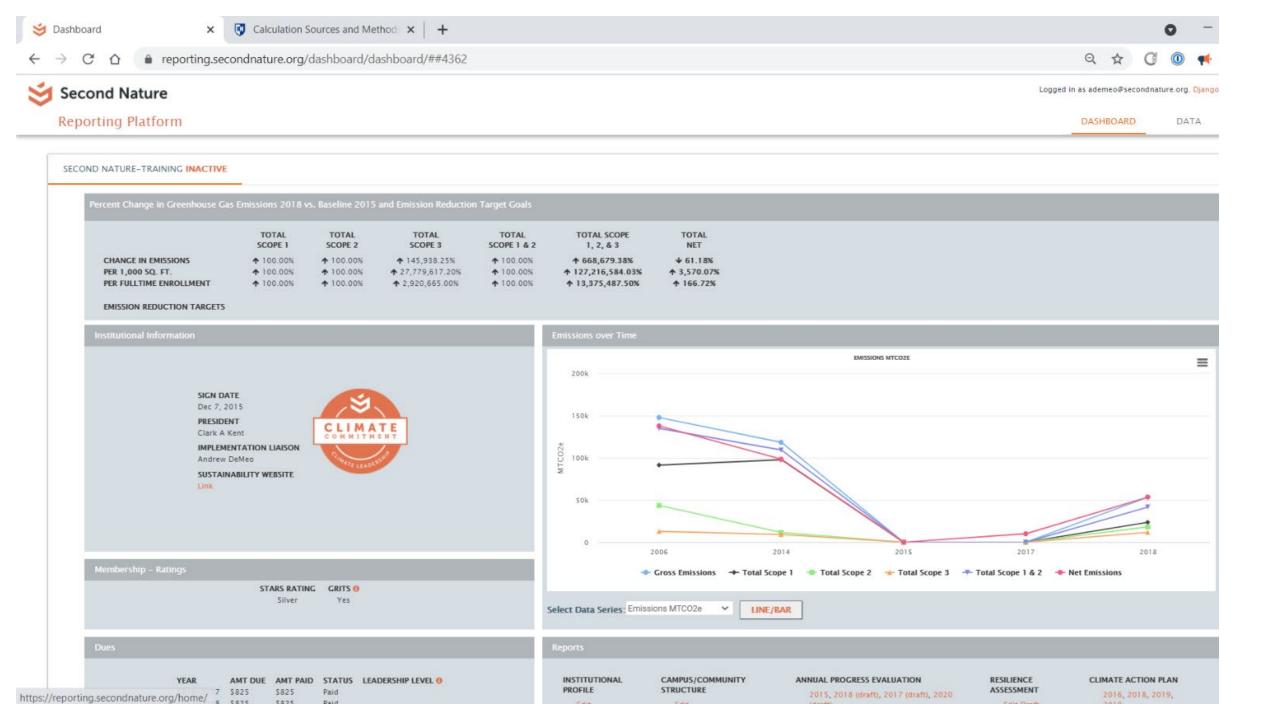
Shared Files

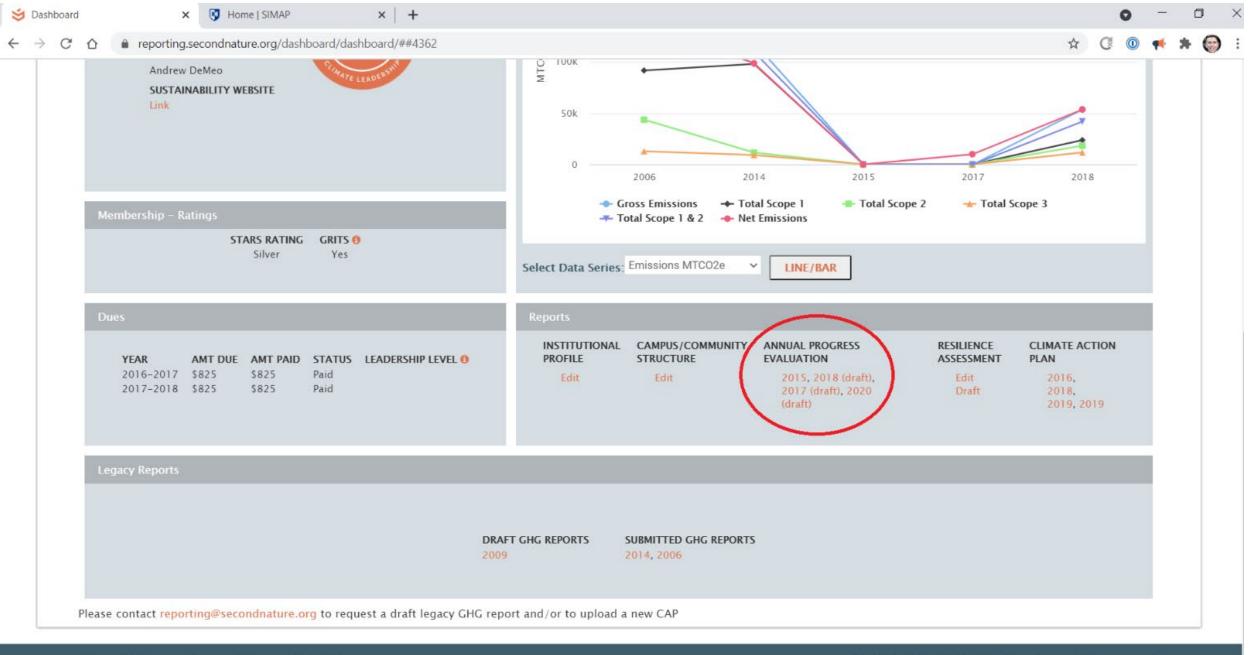
Status

Mark years as complete so they are available for the API transfer

The years below are those with at least some entered data. Please check the appropriate boxes and save your selections when the inventory for those years is complete. Checking a box does not change any of the calculations, it just indicates that all available data for that year has been entered. The "Reviewed" column indicates whether you have completed a formal data review with the SIMAP team. They will check the boxes for each year this review has been completed. To request a data review, please follow the instructions here.

Main Campus	UNH Law	Reviewed 3
□ 2020	□ 2020	2020
□ 2019	□ 2019	□ 2019
☑ 2018	□ 2018	□ 2018
☑ 2017	□ 2017	□ 2017
☑ 2016	□ 2016	□ 2016
✓ 2015	<u> </u>	□ 2015
☑ 2014	<u> </u>	□ 2014
✓ 2013	□ 2013	□ 2013
✓ 2012	<u> </u>	□ 2012
☑ 2011	□ 2011	□ 2011
☑ 2010	□ 2010	□ 2010
☑ 2009	□ 2009	□ 2009











Dues

Annual Progress Evaluation for Second Nature-Training, 2020

Methodology & Boundaries	Here is your Second Nature API key: d4a1b652228c05177f08ecddd30099l
Start date of the 12-month period covered in this report* 07/01/2019	Which version of IPCC's list of global warming potentials did you use?
Consolidation methodology used to determine organizational boundaries Operational control approach v	Third Assessment Report Who primarily conducted this emissions inventory?* Class
If any institution-owned, leased, or operated buildings or other holdings that should fal within the organizational boundaries are omitted, briefly explain why.*	Please describe the process of conducting the inventory.
Emissions calculation tool used* SIMAP	Please describe any emissions sources that were classified as de minimis and explain how a determination of the significance of these emissions was made.





































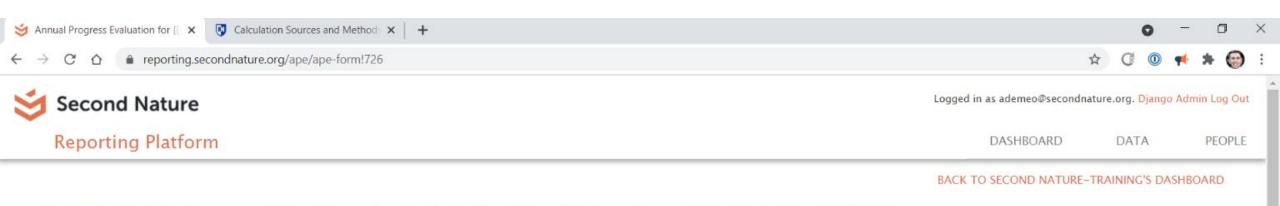












Annual Progress Evaluation for Second Nature-Training, 2020

. Methodology & Boundaries	SIMAP Data Available
	Data for reporting year 2020 is available for import Load Data from SIMAP
Start date of the 12-month period covered in this report* 07/01/2019	Which version of IPCC's list of global warming potentials did you use? Third Assessment Report
Consolidation methodology used to determine organizational boundaries Operational control approach >	Who primarily conducted this emissions inventory?* Class
If any institution-owned, leased, or operated buildings or other holdings that should fall within the organizational boundaries are omitted, briefly explain why.*	Please describe the process of conducting the inventory.
	Please describe any emissions sources that were classified as de minimis and explain

Video tutorial on API transfer

Working groups

Commuting Working Group

Co-facilitated with Second Nature

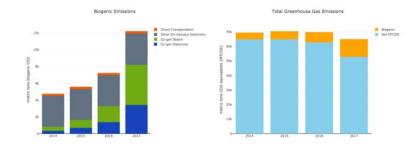


Co-facilitated with Second Nature

Nitrogen Working Group

Co-facilitated with University of Virginia











Summary

SIMAP

- SIMAP can help you calculate your campus' carbon and nitrogen footprints
- Key methods required for the API transfer (EF version, scope 2 method, mark as complete)
- We are here to help! Contact us at simap@unh.edu



Second Nature

- Second Nature's mission is to accelerate climate action in and through higher education
- Contact us if you'd like to learn more about any of our initiatives or services!
 ademeo@secondnature.org



Questions?





www.secondnature.org

Contact: reporting@secondnature.org

www.unhsimap.org

Contact: simap@unh.edu