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BACK TO SAN DIEGO STATE UNIVERSITY'S DASHBOARD

Annual Progress Evaluation for San Diego State University, 2019

GY & BOUNDARIES | 2. EMISSIONS DATA | 3. MITIGATION DATA | 4. NORMALIZATION & CONTEXTUAL DATA | 5. PROGRESS METRICS | 6. REVIEW AND SUBMIT

6. Review and Submit

1. Methodology & Boundaries

All required fields have been completed for Tab 1. Click to edit Tab 1.

***Start date of the 12-month period covered in this report**	July 1, 2018
Consolidation methodology used to determine organizational boundaries	Operational control approach
***If any institution-owned, leased, or operated buildings or other holdings that should fall within the organizational boundaries are omitted, briefly explain why.**	None
***Emissions calculation tool used**	Custom Tool
Please describe why this tool was selected	We previously used the Campus Carbon Calculator, but have transitioned to using our Energy Information System (EIS), SkySpark. We have built reports in SkySpark that utilize the same input data that the Campus Carbon Calculator uses and have these reports output the necessary data for reporting to Second Nature.
Please describe the source(s) of the emissions coefficients used.	Default coefficients except for water and wastewater, which both use regional data.
Which version of IPCC's list of global warming potentials did you use?	Fourth Assessment Report
***Who primarily conducted this emissions inventory?**	Sustainability office staff
Please describe the process of conducting the inventory.	Energy inputs (electricity, natural gas, etc.) are now all tracked within SDSU's Energy Information System (EIS), SkySpark. SDSU has three input streams for our energy that include digital meters that are pulled directly in, utility bills that we receive monthly that get uploaded into the EIS, and a meters that are manually read monthly (not pulled in digitally over a network). This energy data all rolls up for each building, as well as the cogeneration plant and the chiller plant. Commuting data is based on a campuswide survey developed and conducted by an SDSU Professor, Dr. Bruce Appleyard. Travel data is from Accounts Payable in miles, which has allowed us to report more accurately this year than in years past where we only were given cost.
Please describe any emissions sources that were classified as de minimis and explain how a determination of the significance of these emissions was made.	Refrigerant emissions due to their minor contributions from other campus inventories.
Please describe any data limitations related to this submission and any major assumptions made in response to these limitations.	Travel data from Accounts Payable was supplied in milage this year (without cost associated).

2. Emissions Data

All required fields have been completed for Tab 2. Click to edit Tab 2.

Scope One

***Stationary Combustion**	41,543 MTCO2e
***Mobile Combustion**	443 MTCO2e
***Process Emissions**	0 MTCO2e
***Fugitive Emissions**	0 MTCO2e
Total Scope 1 emissions	41,986 MTCO2e

Scope Two

***Purchased Electricity**	5,090 MTCO2e
***Purchased Heating**	0 MTCO2e
***Purchased Cooling**	0 MTCO2e
***Purchased Steam**	0 MTCO2e
Total Scope 2 emissions	5,090 MTCO2e

Scope Three

***Commuting**	42,491 MTCO2e
***Air Travel**	358 MTCO2e
Waste Generated in Operations	699 MTCO2e
Fuel and energy related to activities (not included in scope 1 or scope 2)	0 MTCO2e
Purchased goods and services	0 MTCO2e
Wastewater	56 MTCO2e
Scope 2 T&D Losses	715 MTCO2e
Total Scope 3 emissions	44,319 MTCO2e

Biogenic Emissions

Biogenic Emissions from Stationary Combustion	0 MTCO2e
Biogenic Emissions from Mobile Combustion	0 MTCO2e
Upload the completed inventory calculator	

3. Mitigation Data

All required fields have been completed for Tab 3. Click to edit Tab 3.

Campus Energy (all sources)

*Total Purchased Electricity Consumption	16,107,643 kWh
*On-Site Electricity Generation for Campus Consumption	58,101,724 kWh
Total Electricity Demand	74,209,367 kWh
*Purchased Thermal Energy	0 MMBTU
*On-site Thermal Energy Generation	174,304 MMBTU
Total Thermal Demand	174,304 MMBTU

On Campus Renewable Energy Generation

*Solar Sold	0 kWh
*Solar Retained	1,605,500 kWh
Solar Verification	notverified
*Wind Sold	0 kWh
*Wind Retained	0 kWh
Wind Verification	*No Information Provided*
*Fuel Cell Sold	0 kWh
*Fuel Cell Retained	0 kWh
Fuel Cell Verification	*No Information Provided*
*Landfill Gas Sold	0 kWh
*Landfill Gas Retained	0 kWh
Landfill Gas Verification	*No Information Provided*
*Biomass (electric) Sold	0 kWh
*Biomass (electric) Retained	0 kWh
Biomass (electric) Verification	*No Information Provided*
*Biomass (thermal) Sold	0 MMBTU
*Biomass (thermal) Retained	0 MMBTU
Biomass (thermal) Verification	*No Information Provided*
*Geothermal Sold	0 MMBTU
*Geothermal Retained	0 MMBTU
Geothermal Verification	*No Information Provided*
Total Sold	0 kWh
Total Retained	1,605,500 kWh
Total Generation kWh (sold + retained)	1,605,500 kWh
If you are selling RECs from campus renewable projects, at what date do you anticipate you will begin retaining those RECs?	
Description of RECs sold (including vendor, project source, etc.)	

Off Campus Renewable Energy Purchases

*Utility Green Pricing Purchased	0 kWh
Utility Green Pricing RECs retained?	no
Utility Green Pricing Verification	*No Information Provided*
*Competitive Suppliers Purchased	0 kWh
Competitive Suppliers RECs retained?	no
Competitive Suppliers Verification	*No Information Provided*
*Voluntary Unbundled RECs Purchased	0 kWh
Voluntary Unbundled RECs RECs retained?	no
Voluntary Unbundled RECs Verification	*No Information Provided*
*Community Choice Aggregation Purchased	0 kWh
Community Choice Aggregation RECs retained?	no
Community Choice Aggregation Verification	*No Information Provided*
*Community Solar Purchased	0 kWh
Community Solar RECs retained?	no

Community Solar Verification	*No Information Provided*
*Power Purchase Agreement Purchased	0 kWh
Power Purchase Agreement RECs retained?	no
Power Purchase Agreement Verification	*No Information Provided*
*Large Commercial Green Power Rates ("green tarrifs") Purchased	0 kWh
Large Commercial Green Power Rates ("green tarrifs") RECs retained?	no
Large Commercial Green Power Rates ("green tarrifs") Verification	*No Information Provided*
Other Purchased	*No Information Provided*
Verification Program RECs retained?	no
Verification Program Verification	*No Information Provided*
Total REC Purchases	0 kWh
Description of Renewable Energy Purchase (including vendor, project source, etc.)	*No Information Provided*

Offsets

*Carbon offsets purchased	0 MTCO2e
Offset verification program(s)	[]
Description of offsets purchased (including vendor, project source, etc.)	*No Information Provided*
*Offsets Sold	0 MTCO2e
Were these offsets used to offset the buyers emissions or retired?	no
Used to offset purchaser's emissions	no
Retired against the climate	no
If other, please specify	*No Information Provided*
Description of offset projects (including project source, etc.)	*No Information Provided*
Offsets Produced	0 MTCO2e
Offset Type	*No Information Provided*
Description of offset projects (including project source, etc.)	*No Information Provided*
Offsets produced verification program(s)	[]
Description of Verification Protocol (including monitoring proceedures, peer review, etc.)	*No Information Provided*

Offsetproducedverficationfile	*No Information Provided*

Sequestration & Carbon Storage

Sequestration due to land owned by the institution	0
Description of how sequestration was calculated	*No Information Provided*
Carbon storage due to composting	58

4. Normalization & Contextual Data

All required fields have been completed for Tab 4. Click to edit Tab 4.

*Gross square feet of building space	5,951,063 sq ft
Net assignable square feet of laboratory space	293,363 sq ft
Net assignable square feet of health care space	82,584 sq ft
Net assignable square feet of residential space	0 sq ft
*Total student enrollment (FTE)	32,304
Residential Students	6,952
Full-time Commuter Students	0
Part-time Commuter Students	0
Non-credit Students	0
Full-time Faculty	1,968
Part-time Faculty	0
Full-time Staff	1,802
Part-time Staff	0
Endowment Size	$302,000,000.00 USD
Heating Degree Days	1,680
Cooling Degree Days	973
Please describe any circumstances specific to your institution that provide context for understanding your greenhouse gas emissions this year.	*No Information Provided*
Has this emissions data been audited, verified, or peer-reviewed?	*No Information Provided*
Please briefly describe this verification, if any.	*No Information Provided*

5. Progress Metrics

All required fields have been completed for Tab 5. Click to edit Tab 5.

Has your Climate Action Plan and/or related sustainability efforts saved your institution money so far, e.g. by reducing operational expenses?	yes
Estimated money saved to date from implementing your CAP	*No Information Provided*
Borrowed against endowment	no
Efficiency Services Agreement (ESA)	no
Managed Utility Service Contract (MUSC)	no
Power Purchase Agreement (PPA)	no
Renegotiating Purchased Utilities Agreements	no
Revolving Loan Funds	yes
Tax Exempt Lease Purchase Agreements (TELP)	no
Tax Exempt Lease Purchase Agreements (TELP)	no
Student Green Fees	yes
Energy Performance Contract (EPC)	no
Other	no
Other – please provide more information:	*No Information Provided*
***How is your institution making climate neutrality and sustainability a part of the curriculum and other educational experiences for all students?**	The sustainability major and minor are popular and growing programs that interest many incoming students to participate in. The Office of Sustainability has currently published sustainability-related courses on their website. There has also been progress in 2019 – 2020 on incorporating sustainability in General Education learning outcomes reform; however, it is loosely applied with current outcomes. Finally, the Office of Sustainability has been working to incorporate an introduction to sustainability at SDSU in the New Student and Parent Programs, as well as the new faculty and staff orientation program.
Included sustainability learning outcomes, tracks, or certificates in every academic major.	no
Included sustainability in fulfilling regional accreditation requirements.	no
Included sustainability in fulfilling state accreditation requirements.	no
Included sustainability learning outcomes into institutional General Education Requirements.	yes
Offered professional development to all faculty in sustainability education.	no
Other	no
Other text	*No Information Provided*
***If applicable, how is your institution expanding research efforts toward the achievement of climate neutrality research?**	The sustainability senate committee awards students who participate in sustainability-related research in annual symposiums. All faculty have to engage in research, so those who are teaching sustainability courses are doing sustainability-related research.
*** How is your institution expanding community outreach efforts toward the achievement of climate neutrality?**	Sage Project has heavily participated in local community projects, and student organizations hold numerous public outreach events and activities every year.

☑ **Annual Progress Evaluation Is Public**

SUBMIT PUBLICLY