

DOCKETED

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SUPPLEMENTAL RESPONSE TO CEC STAFF DATA REQUEST 47

Great Oaks South Backup Generating Facility (20-SPPE-01)

SUBMITTED TO: CALIFORNIA ENERGY COMMISSION

SUBMITTED BY: **SV1, LLC**

November 2020



INTRODUCTION

Attached is SV1, LLC's (SV1) Supplemental Response to Data Request 47 for the Great Oaks South Backup Generation Facility (GOSBGF) Application for Small Power Plant Exemption (SPPE) (20-SPPE-01).

Data Request 47 requested information about the location of the 21 kV underground feeders that PG&E will construct to serve the ultimate capacity of the three data center buildings. In the original response provided by PG&E and reproduced by SV1 in its Data Response Set 1 package, two potential routes (three trenches) were identified for the 5 new 21 kV feeders that may be constructed over the life of the Great Oaks South Data Center. CEC Staff requested that the construction emissions associated with these two routes as well as construction emissions for a sidewalk repair and replacement project requested by the City be provided. The following includes the construction emission information requested by CEC Staff and will be referred to as Supplemental Data Response 47.

Supplemental Data Response 47

The data and identification of these three (3) short linears was not included in the initial construction support data provided by PG&E. Data in Table 1 below represents the PG&E and SV1's best estimates for the construction of the proposed electrical feed line linears for the project. Currently, the proposed electrical feed lines will be placed in three separate trenches to be built as needed. The three proposed routes are designated as Via Del Oro, Santa Teresa 1 (2101), and Santa Teresa 2 (2102). The data on each route and other related data used to support the emissions calculations is presented in Table 1. Each route is simply a trenching project which will require minimum equipment and work staff to complete. This data was input into CalEEMod and emissions were evaluated for construction only, as the underground feed lines will not result in any operational emissions.

The three feed line trenches will be constructed as needed, and the construction years in which each will be built are the best estimates based on forecasted need.

**Table 1 Equinix (Great Oaks South) Data Center Electrical Feeder Linears
Construction Data and Emissions Summary**

Parameter	Del Oro Route	Santa Teresa Route 1	Santa Teresa Route 2
Route (Trench) Length (ft)	2920	5671	5671
Trench Depth (ft)	4	4	4
Trench Width (ft)	2	2	2
# Distribution Lines in Trench	2	2	1
Project Months	1.5	2.5	2.5
Total Work Days	33	55	55
Hrs/day	8	8	8
Trench cut and fill (yd3)	866	1681	1681
Cut and fill balanced	Yes	Yes	Yes
# of Excavators	1	1	1
# of Backhoes	1	1	1
# Conduit trucks	1	1	1
# Other trucks	2	2	2
# Workers/day	8	8	8
Worker RTs/day	8	8	8
Trench Progress (ft/day)	180	180	180
Const Year	2022	2024	2027
Est const start date	2-1-22	9-1-24	9-1-27

Ops year	NA	NA	NA
Notes:			
<ol style="list-style-type: none"> 1. No operational emissions were calculated for these linear trenches. 2. Trench soil removed will be piled near the trench for use as backfill (balanced cut and fill). 3. Once excavation begins, feed line conduit will be concurrently laid in the trench, and then backfilling will occur as the line moves from the start to end point. 4. Trenching progress is the <u>average</u> daily value as derived from Southern Regional Water Pipeline Alliance, Trenching Guideline, March 2008. 			

Tables 2 through 4 present the emissions summaries as derived from the CalEEMod output. The CalEEMod input and output files are also supplied in electronic form as Attachment AIR SDR-47 to this response.

Table 2 Del Oro Route Mitigated Offsite Linear Construction Emissions Summary

Parameter	ROG	NOx	CO	SOx	PM10 Exh	PM10 Fug	PM2.5 Exh	PM2.5 Fug
Tons/period	0.00447	0.0194	0.2523	0.00034	0.00055	0.00116	0.00055	0.00031
Avg Lbs/day	0.271	1.176	15.29	0.021	0.033	0.07	0.033	0.019

Total period CO2e emissions = 30.3 MT

Table 3 Santa Teresa Route 1 Mitigated Offsite Linear Construction Emissions Summary

Parameter	ROG	NOx	CO	SOx	PM10 Exh	PM10 Fug	PM2.5 Exh	PM2.5 Fug
Tons/period	0.00735	0.0315	0.4198	0.00057	0.00091	0.00193	0.00091	0.00052
Avg Lbs/day	0.27	1.15	15.26	0.021	0.033	0.07	0.033	0.019

Total period CO2e emissions = 50.3 MT

Table 4 Santa Teresa Route 2 Mitigated Offsite Linear Construction Emissions Summary

Parameter	ROG	NOx	CO	SOx	PM10 Exh	PM10 Fug	PM2.5 Exh	PM2.5 Fug
Tons/period	0.00727	0.0314	0.4190	0.00057	0.00091	0.00193	0.00091	0.00052
Avg Lbs/day	0.264	1/142	15.24	0.021	0.033	0.07	0.033	0.019

Total period CO2e emissions = 50.2 MT

Attachment AIR SDR-47

GBOS Electrical Feeder Linears - Santa Clara County, Annual

GBOS Electrical Feeder Linears
Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Commercial	4,230.00	User Defined Unit	0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2028
Utility Company					
CO2 Intensity (lb/MWhr)	278	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Operational emissions were NOT calculated for these underground offsite linears.

Any OPs emissions calculated by CalEEMod should be ignored.

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Project Characteristics - Feeder lines will be installed at the end of each phase, i.e, 2022, 2024, and 2027. All data is Applicant best estimate.

Land Use - 4230 is the estimated volume (cubic yards) of trench material to be cut and filled.

Construction Phase - Applicant supplied best estimates.

Off-road Equipment - Applicant supplied best estimates. Other const equipment are 3 small diesel trucks, conduit roller truck and 2 support trucks.

Off-road Equipment - Same note as Del Oro route

Off-road Equipment - Same note as Santa Teresa 1.

Trips and VMT - Based on 8 workers per trench project each day. Vendor trips are for conduit delivery, etc.

Vehicle Trips - Applicant data

Vehicle Emission Factors - No OPs emissions are calculated for these linear projects.

Vehicle Emission Factors - No OPs emissions calculated.

Vehicle Emission Factors - No OPs emissions calculated.

Road Dust - Unpaved road travel is assumed to be "zero" for these linear projects.

Consumer Products - Applicant best estimate.

Landscape Equipment - Applicant data.

Energy Use -

Water And Wastewater - No OPs emissions for these linear projects.

Solid Waste - NA

Construction Off-road Equipment Mitigation - Applicant best estimate. T4 final assumed as best choice for const years noted.

Area Mitigation - NA

Energy Mitigation - NA

Water Mitigation - NA

Waste Mitigation - NA

Operational Off-Road Equipment - NA

Fleet Mix - No OPs emissions calculated.

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Table Name	Column Name	Default Value	New Value
tblApplianceMitigation	PercentImprovement	30.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblApplianceMitigation	PercentImprovement	50.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblRoadDust	MeanVehicleSpeed	40	15
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	WorkerTripNumber	13.00	8.00
tblTripsAndVMT	WorkerTripNumber	13.00	8.00
tblTripsAndVMT	WorkerTripNumber	13.00	8.00
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00

GBOS Electrical Feeder Linears - Santa Clara County, Annual

2.0 Emissions Summary

2.1 Overall Construction
Unmitigated Construction

Year	tons/yr											MT/yr			
ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2022	0.0181	0.1769	0.2182	3.4000e-004	1.1600e-003	9.0700e-003	0.0102	3.1000e-004	8.3500e-003	8.6600e-003					30.2785
2024	0.0267	0.2463	0.3627	5.7000e-004	1.9300e-003	0.0123	0.0142	5.2000e-004	0.0113	0.0118					50.3493
2027	0.0242	0.2149	0.3608	5.7000e-004	1.9300e-003	0.0105	0.0124	5.2000e-004	9.6700e-003	0.0102					50.2257
Maximum	0.0267	0.2463	0.3627	5.7000e-004	1.9300e-003	0.0123	0.0142	5.2000e-004	0.0113	0.0118					50.3493

Mitigated Construction

Year	tons/yr											MT/yr			
ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2022	4.4700e-003	0.0194	0.2523	3.4000e-004	1.1600e-003	5.5000e-004	1.7000e-003	3.1000e-004	5.5000e-004	8.6000e-004					30.2785
2024	7.3500e-003	0.0315	0.4198	5.7000e-004	1.9300e-003	9.1000e-004	2.8400e-003	5.2000e-004	9.1000e-004	1.4300e-003					50.3492
2027	7.2700e-003	0.0314	0.4190	5.7000e-004	1.9300e-003	9.1000e-004	2.8400e-003	5.2000e-004	9.1000e-004	1.4200e-003					50.2256
Maximum	7.3500e-003	0.0315	0.4198	5.7000e-004	1.9300e-003	9.1000e-004	2.8400e-003	5.2000e-004	9.1000e-004	1.4300e-003					50.3492

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Area	3.5700e-003	3.5000e-004	0.0388	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004							0.0805
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Waste						0.0000	0.0000		0.0000	0.0000							0.0000
Water						0.0000	0.0000		0.0000	0.0000							0.0000
Total	3.5700e-003	3.5000e-004	0.0388	0.0000	0.0000	1.4000e-004	1.4000e-004	0.0000	1.4000e-004	1.4000e-004							0.0805

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Del Oro Route	Trenching	3/1/2022	4/14/2022	5	33	
2	Santa Teresa Route 1	Trenching	9/1/2024	11/15/2024	5	55	
3	Santa Teresa Route 2	Trenching	9/1/2027	11/16/2027	5	55	

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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Del Oro Route	Excavators	1	8.00	158	0.38
Del Oro Route	Other Construction Equipment	3	5.00	172	0.42
Del Oro Route	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Santa Teresa Route 1	Excavators	1	8.00	158	0.38
Santa Teresa Route 1	Other Construction Equipment	3	5.00	172	0.42
Santa Teresa Route 1	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Santa Teresa Route 2	Excavators	1	8.00	158	0.38
Santa Teresa Route 2	Other Construction Equipment	3	5.00	172	0.42
Santa Teresa Route 2	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Del Oro Route	5	8.00	1.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Santa Teresa Route 1	5	8.00	1.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Santa Teresa Route 2	5	8.00	1.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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3.4 Santa Teresa Route 2 - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Off-Road	6.7300e-003	0.0292	0.4152	5.5000e-004		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004							48.4077
Total	6.7300e-003	0.0292	0.4152	5.5000e-004		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004							48.4077

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Vendor	6.0000e-005	1.9200e-003	5.8000e-004	1.0000e-005	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005							0.6693
Worker	4.8000e-004	2.6000e-004	3.1900e-003	1.0000e-005	1.7400e-003	1.0000e-005	1.7500e-003	4.6000e-004	1.0000e-005	4.7000e-004							1.1486
Total	5.4000e-004	2.1800e-003	3.7700e-003	2.0000e-005	1.9200e-003	1.0000e-005	1.9300e-003	5.1000e-004	1.0000e-005	5.2000e-004							1.8179

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Commercial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Commercial	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Commercial	0.620274	0.034449	0.180536	0.101790	0.012258	0.005041	0.012989	0.022505	0.002207	0.001488	0.005157	0.000643	0.000663

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000						0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000						0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use		tons/yr															MT/yr			
NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	Land Use	User Defined Commercial	Total	
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000								0	0.0000	0.0000

Mitigated

Land Use		tons/yr															MT/yr			
NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	Land Use	User Defined Commercial	Total	
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000								0	0.0000	0.0000

5.3 Energy by Land Use - Electricity

Unmitigated

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Commercial	0				0.0000
Total					0.0000

Mitigated

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Commercial	0				0.0000
Total					0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	3.5700e-003	3.5000e-004	0.0388	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004						0.0805
Total	3.5700e-003	3.5000e-004	0.0388	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004						0.0805

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated				0.0000
Unmitigated				0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Commercial	0 / 0				0.0000
Total					0.0000

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Commercial	0 / 0				0.0000
Total					0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				0.0000
Unmitigated				0.0000

8.2 Waste by Land Use
Unmitigated

Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr		
User Defined Commercial	0			0.0000
Total				0.0000

Mitigated

Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr		
User Defined Commercial	0			0.0000
Total				0.0000

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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GBOS Electrical Feeder Linears - Santa Clara County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation
