Building Energy Data Exchange Specification (BEDES) Compliant Mapping

Date3/14/2016ImplementationBuildingSyncImplementation VersionV2.0BEDES VersionV1.2

For more information about BEDES, please visit <u>https://bedes.lbl.gov/bedes-online</u>

Mapping of BuildingSync Version 2.0 to BEDES Version 1.2 - Project Data (Draft 3/14/16)

Enumerations are only listed when there is a difference between BuildingSync and BEDES, otherwise "=[value]" is used. The BuildingSync enumerations must include all values to allow mapping, but some values in the corresponding BEDES term may not be used.

BuildingSync Table			BuildingSync						
Name	BuildingSync Term	BuildingSync Value	Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
Site	Occupancy Classification	[value]	n/a	Occupancy Classification	=[value]	n/a			
	Identifier Label	Premises	n/a	Identifier Label	Premises	n/a			
		Listing	n/a		Listing	n/a			
		Name	n/a		Name	n/a			
		Portfolio Manager Property	n/a		Portfolio Manager Property	n/a			
		ID							
		Portfolio Manager Standard	n/a		Other	n/a			
		Federal real property	n/a		Federal real property	n/a			
		Tax book number	n/a		Tax book number	n/a			
		Tax map number	n/a		Tax map number	n/a			
		Assessor parcel number	n/a		Assessor parcel number	n/a			
		Tax parcel letter	n/a		Tax parcel letter	n/a			
		Custom	n/a		Custom	n/a			
		Other	n/a		Other	n/a			
	Identifier Custom Name	[value]	n/a	(No corresponding field)					
	Identifier Value	[value]	n/a	Identifier Value	=[value]	n/a			
	Street Address Detail	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Street Address	[value]	n/a	Address Line 1	=[value]	n/a			
	Street Number Pretix	[value]	n/a	Address Number Pretix	=[value]	n/a			
	Street Number Numeric	[value]	n/a	Address Number	=[value]	n/a			
	Street Number Suffix	[value]	n/a	Address Number Suffix	=[value]	n/a		<u> </u>	
	Street Dir Prefix	[value]	n/a	Street Name Pre Directional	=[value]	n/a			
	Street Name	[value]	n/a	Street Name	=[value]	n/a			
	Street Additional Info	[value]	n/a	Address Line 2	=[value]	n/a			
	Street Suffix	[value]	n/a	Street Name Post Type	=[value]	n/a			
	Street Dir Suffix	[value]	n/a	Street Name Post Directional	=[value]	n/a			
	Street Suffix Modifier	[value]	n/a	Street Name Post Modifier	=[value]	n/a			
	Subaddress Type	[value]	n/a	Subaddress Type	=[value]	n/a			
	Subaddress Identifier	[value]	n/a	Subaddress Identifier	=[value]	n/a			
	City	[value]	n/a	City	=[value]	n/a			
	State	[value]	n/a	State	=[value]	n/a			
	Postal Code	[value]	n/a	ZIP Code	=[value]	n/a			
	Postal Code Plus 4	[value]	n/a	ZIP Plus 4	=[value]	n/a			
	County	[value]	n/a	County	=[value]	n/a			
	Country	[value]	n/a	Country Name	=[value]	n/a			
	Climate Zone Type	[value]	n/a	Climate Zone Type	=[value]	n/a			
	Climate Zone: ASHRAE	[value]	n/a	Climate Zone	=[value]	n/a			
	Climate Zone: Energy Star	[value]	n/a	Climate Zone	=[value]	n/a			
	Climate Zone: California Title	[value]	Climate Zone 1	Climate Zone	1	n/a			
	24		Climate Zone 2		2	n/a			
			Climate Zone 3		3	n/a			
			Climate Zone 4	•	4	n/a			
			Climate Zone 5	1	с с	n/a		1	
			Climate Zone 7	1	7	n/a		1	
			Climate Zone 7		, o	n/a			
			Climate Zone 9		a	n/a			
			Climate Zone 10		10	n/a			
			Climate Zone 11		11	n/a			
			Climate Zone 12		12	n/a			
			Climate Zone 13		13	n/a			
			Climate Zone 14	1	14	n/a			1
			Climate Zone 15	1	15	n/a			1
			Climate Zone 16	1	16	n/a			
	Climate Zone: IECC	[value]	n/a	Climate Zone	=[value]	n/a			
	Climate Zone: Building	[value]	n/a	Climate Zone	=[value]	n/a			
	America								
	Climate Zone: CBECS	[value]	n/a	Climate Zone	=[value]	n/a		ļ	
	Climate Zone: DOE	[value]	n/a	Climate Zone	=[value]	n/a		l	
	Climate Zone: Other	[value]	n/a	Climate Zone	Other	n/a			
	eGRID Region Code	[value]	n/a	eGRID Region Code	=[value]	n/a			
	weather Data Station ID	[value]	n/a	weather Data Station ID	=[value]	n/à			
1	weather Station Name	[value]	n/a	weatner Station Name	=[value]	n/a	1		1

BEDES: notes in red text, yellow highlighting

BuildingSync Table			BuildingSync						
Name	BuildingSync Term	BuildingSync Value	Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
	Weather Station Category	[value]	n/a	Weather Station Category	=[value]	n/a			
	Longitude	[value]	degrees	Longitude	=[value]	degrees			
	Latitude	[value]	degrees	Latitude	=[value]	degrees			
	Field Name	[value]	n/a	(No corresponding field)					This is a user-defined field in BuildingSync,
									providing flexibility when needed at various
									points in the schema. It cannot be mapped to
									BEDES.
	Field Value	[value]	n/a	(No corresponding field)					This is a user-defined field in BuildingSync,
									providing flexibility when needed at various
									points in the schema. It cannot be mapped to
									BEDES.
Customer	Contact Bole	Premises		Contact Label	Premises				
		-			-				
		Occupant			Occupant				
		Agency			Agency				
		Owner			Owner				
		Customer			Customer				
		Customer agreement			Customer agreement				
		Administrator			Administrator				
		Qualified Assessor			Qualified assessor				
		Contributor			Contributor				
		Property Management			Property management company				
		Company							
		Operator		1	Operator				
		Energy Auditor			Energy auditor				
		Energy Modeler			Energy modeler				
		Contractor			Contractor				
		Implementer			Implementer				
		Financier			Financier				
		Commissioning Agont			Commissioning agont				
		MV/ Agopt			MV agont				
		Fuelwater			Fundamenter				
		Evaluator			Evaluator				
		Builder			Builder				
		Service			Service				
		Billing			Billing				
		Architect			Architect				
		Mechanical Engineer			Mechanical engineer				
		Energy Consultant			Energy consultant				
		Service and Product Provider			Service and product provider				
		Authority Having Jurisdiction			Authority having jurisdiction				
		Utility			Utility				
		Power plant			Power plant				
		Electric Distribution Utility			Electric distribution utility				
		(EDU)							
		ESCO		1	Service and product provider				
		Facilitator		1	Agency				
		Finance Specialist			Administrator				
		Other			Other				
	Contact Name	[value]	n/a	Full Name	=[value]	n/a			
	Contact Company	[value]	n/a	Company Name	-[value]	n/a			
	Contact Telephone Number	[value]	n/a	Telephone Number	-[value]	n/a			
	Contact Telephone Number	Dave	170	Telephone Number Label		iiy u			
	Labol	Days		relephone Number Laber	Day				
	Laber	Evenings		1	Evening				
		Cell			Mobile				
		Other			Other				
	Contact Email Address	[value]	n/a	Email Address	=[value]	n/a			
	Contact Email Address Label	[value]	n/a	Email Address Label	=[value]	n/a			
		[]			[]	, -			
	Federal Building	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Agency	[value]	n/a	Contact Label	Agency				Therareneous element not used in SEBES
		[
				Company Name	=[value]	n/a		1	
	Department Region	[value]	n/a	Federal Department or Region	=[value]	n/a			
	Portfolio Manager	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES.
	PM Benchmark Date	[value]	n/a	Assessment Tool	Portfolio Manager	n/a			
			CON 1414 DD	Dawaharan di Data	for the state of t	CC10/ MAM DD	1	1	
				benchmark Date	=[vdiUe]	CCTT-IVIIVI-DD			
	Building Profile Status	[value]	n/a	Assessment Tool	Portfolio Manager	n/a			
				Account Status	=[value]	n/a			
									-

BuildingSync Table			BuildingSync						
Name	BuildingSync Term	BuildingSync Value	Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
	Federal Sustainability	[value]	%	Federal Sustainability Checklist	=[value]	%			
	Checklist Completion			Completion Percentage					
Facility	Height Distribution	[value]	n/a	Height Distribution	=[value]	n/a			"Variable Height" in BEDES is not used. It's not
racincy	Theight Distribution	[value]	174	Theight Distribution	-[value]	17.0			clear how this is different from "Multiple
									Heights"
	Facility Classification	[value]	n/a	Occupancy Classification	=[value]	n/a			*
	Aspect Ratio	[value]	n/a	Aspect Ratio	=[value]	n/a			
	Perimeter	[value]	ft	Perimeter	=[value]	n/a	=[value]		
				Unit of Measure	ft	n/a			
	Ownership	[value]	n/a	Ownership	=[value]	n/a			"For-profit organization" and "Non-profit organization" were added to BEDES 1.1, but probably should not be used in BuildingSync because they overlap with other values.
	Occupant Type	[value]	n/a	Occupant Type	=[value]	n/a			
	Occupant Quantity Type	Peak total occupants	n/a	Occupant Quantity Type	Peak total occupants	n/a			
		Adults	n/a		Adults	n/a			
		Children	n/a		Children	n/a			
		Average residents	n/a		Average residents	n/a			
		Workers on main shift	n/a		Workers on main shift	n/a			
		Full-time equivalent workers	n/a		Full time equivalent workers	n/a			
		Average daily salaried labor	n/a		Average daily salaried labor	n/a			
		Registered students	n/a		Registered students	n/a			
		Staffed beds	n/a		Staffed beds	n/a			
		Licensed beds	n/a		Licensed beds	n/a			
		Capacity	n/a		Capacity	n/a			
		Capacity percentage	n/a		Capacity percentage	n/a			
	Occupant Quantity	[value]	n/a	Quantity	=[value]	n/a		Decimal in BuildingSync must be rounded off to an integer in BEDES.	
	Percent Occupied by Owner	[value]	%	Percent Occupied by Owner	=[value]	%			
	Assessment Program	[value]	n/a	Assessment Program	=[value]	n/a			
	Assessment Level	Bronze	n/a	Assessment Level	Bronze	n/a			
		Silver	n/a		Silver	n/a			
		Gold	n/a		Gold	n/a			
		Emerald	n/a		Emerald	n/a			
		Pronzo	n/a		Propzo	n/a			
		Silver	n/a		Silver	n/a			
		Gold	n/a		Gold	n/a			
		Platinum	n/a		Platinum	n/a			
		One Star	n/a		One Star	n/a			
		Two Star	n/a		Two Star	n/a			
		Three Star	n/a		Three Star	n/a			
		Four Star	n/a		Four Star	n/a			
		Other	n/a		Other	n/a			
	Assessment Value	[value]	n/a	Assessment Value	=[value]	n/a			
	Assessment Year	[value]	CCYY	Assessment Year	=[value]	CCYY			
	Assessment Version	[value]	n/a	Assessment Version	=[value]	n/a			
	Year of Last Major Remodel	[value]	CCYY	Implementation Status	Completed	n/a			
				Implementation Status Date	=[value]	CCYY			
				Date Format	Year	n/a			
	Voor of Loct Enorgy Audit	[value]	CCVV	Implementation Status	Completed	n/a			
	Teal of Last Lifergy Audit	[value]	cen	Implementation Status	Completed	11/8			
				Date Format	=[value]	LLII n/2			
				Action Category	Audit	n/a			
	Retrocommissioning Date	[value]	CCYY-MM-DD	Implementation Status	Completed	n/a			
	netrocommissioning bute	[raide]		Implementation Status Date	=[value]	CCYY-MM-DD			
				Date Format	Date	n/a			
				Action Category	Retrocommissioning	n/a			
	Year Of Latest Retrofit	[value]	CCYY-MM-DD	Implementation Status	Completed	n/a			
				Implementation Status Date	=[value]	CCYY	1		
				Date Format	Year	n/a		İ	
				Action Category	Retrofit	n/a			
	Year Occupied	[value]	CCYY	Construction Status	Occupancy	n/a			
				Construction Status Date	=[value]	CCYY			
				Date Format	Year	n/a			
	Number of Businesses	[value]	n/a	Spatial Unit Type	Businesses	n/a			

BuildingSync Table			BuildingSync						
Name	BuildingSync Term	BuildingSync Value	Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
				Quantity	=[value]	n/a			
	Operator Type	[value]	n/a	Operational Control Actor					This identifies whether the owner or another
									actor controls the operation of the facility.
									BEDES does not have this field, but it seems
									useful to keep in BuildingSync.
	Horizontal Surroundings	No abutments	n/a	Horizontal Surroundings	Stand-alone				_
		Attached from Above	n/a		Attached from above	n/a			
		Attached from Below	n/a		Attached from below	n/a			_
		Attached from Above and	n/a		Attached from above and	n/a			
		Below		-	below				-
		Unknown	n/a		Unknown	n/a			-
	Vertical Surroundings	Stand-alone	n/a	Vertical Surroundings	Stand-alone	n/a			-
		Attached on one side	n/a	-	Attached on one side	n/a			-
		Attached on two sides	n/a	-	Attached on two sides	n/a			-
		Attached on three sides	n/a	-	Attached on three sides	n/a			-
		Within a building	n/a	4	Within a premises	n/a			-
	Our and in Status	Unknown	n/a	Ownerskie Chattan	Unknown (valua)	n/a			
	Ownership Status	[value]	n/a	Ownership Status	=[value]	n/a			ł
	Dublish: Subsidized	True	n/a	NAICS CODE	=[value]	n/a			ł
	Publicly Subsidized	ITue	II/d	Occupant Type	community	11/ d			
Subsection	Voor of Construction	[value]	CCVV	Construction Status	Completed	n/2			
Subsection	real of construction	[value]	cerr	Construction Status	=[valua]	CCVV			
				Date Format	-[value]	n/2			
	SideA1Orientation	[value]	degrees	Azimuth	-[value]	degrees			There doesn't appear to be a "qualifier" in
	SIGCATORICITIZATION	[value]	ucgrees	Azimuti	-[value]	ucgrees			BEDES for Azimuth to provide further context
									BEDES: What does "SideA1" mean?
									BEDES. WHAT GOES SIGERT HEAT?
	Footprint Shape	Rectangular	n/a	Footprint Shape	Bectangular	n/a			Several shapes in BEDES 1.1 are not used in
	rootprint shape	L Change	- /-	r ootprint bhape	Labored	- /-			BuildingSync. I don't believe they are
		L-Snape	n/a	-	L-snaped	n/a			necessary. The shape definitions were worked
		U-Snape	n/a	4	U-snaped	n/a			out with PNNL/Asset Score and Amir at DOF to
		H-Snape	n/a	4	H-Snaped	n/a			allow clear geometry definitions for modeling.
		O Shane	n/a	-	1-Shape Countriand	n/a			This was deemed out of scope at the time for
		Othor	n/a	-	Othor	n/a			BEDES.
		Unknown	n/a	-	Unknown	n/a			4
	Sido Numbor	finalual	n/a	(No corresponding field)	UIKIIUWII	11/ d			Geometry term outside the scope of BEDES
	Side Longth	[value]	11/a #	(No corresponding field)	=[valua]	n/2			REDES has no relevant qualifier representing
	Side Length	[value]	it.	Length	-[value]	n/a			the length of a side of a block
				Unit of Measure	ft	n/a			the length of a side of a block.
	Wall ID	[velue]	n/n	(No corresponding field)					Historehical term outside scene of PEDES
	Wall Aroa	[value]	11/a #2	Opaque Surface	Wall	n/2			Therarchical term outside scope of BEDES
	wall Area	[value]	112		-[value]	ft2			
	Window ID	[value]	n/a	(No corresponding field)	-[walde]	112			Hierarchical term outside scope of BEDES
	Window to Wall Batio	[value]	%	Window to Wall Batio	=[value]	%			
	Fenestration Area	[value]	ft2	Opaque Surface Component	Fenestration	n/a			
	i enesti dilori ri ed	[value]		Area	=[value]	ft2			
	Percent of Window Area	[value]	%	Fenestration	Window	n/a			
	Shaded	()		Percent of Fenestration Area	=[value]	%			
				Shaded	1				
	Door ID	[value]	n/a	(No corresponding field)					Hierarchical term outside scope of BEDES
	Thermal Zone ID	[value]	n/a	(No corresponding field)					Hierarchical term outside scope of BEDES
	Space ID	[value]	n/a	(No corresponding field)					Hierarchical term outside scope of BEDES
	Roof ID	[value]	n/a	(No corresponding field)					Hierarchical term outside scope of BEDES
	Roof Area	[value]	ft2	Opaque Surface	Roof	n/a			
				Area	=[value]	ft2			
	Roof Insulated Area	[value]	ft2	Opaque Surface	Roof	n/a			
				Material Qualifier	Insulation	n/a			
				Area	=[value]	ft2			
	Ceiling ID	[value]	n/a	(No corresponding field)					Hierarchical term outside scope of BEDES
	Ceiling Area	[value]	ft2	Opaque Surface	Ceiling	n/a			
				Area	=[value]	ft2			
	Ceiling Insulated Area	[value]	ft2	Opaque Surface	Ceiling	n/a			
				Material Qualifier	Insulation	n/a			
				Area	=[value]	ft2			
	Foundation ID	[value]	n/a	(No corresponding field)					Hierarchical term outside scope of BEDES
	Foundation Area	[value]	ft2	Opaque Surface	Floor	n/a			
			L	Area	=[value]	ft2			
	Skylight ID	[value]	n/a	(No corresponding field)					Hierarchical term outside scope of BEDES
	Percent Skylight Area	[value]	%	Percent Skylight Area	=[value]	%			

BuildingSync Table			BuildingSync						
Name	BuildingSync Term	BuildingSync Value	Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
	XOffset	[value]	ft	Offset	=[value]	ft		· · · · · ·	There doesn't appear to be a "qualifier" in
				Unit of Measure	ft	n/a			BEDES for Offset to provide further context.
	YOffset	[value]	ft	Offset	=[value]	ft			BEDES v2.0 adding "Coordinate" qualifier.
				Unit of Measure	ft	n/a			
	ZOffset	[value]	ft	Offset	=[value]	ft			
				Unit of Measure	ft	n/a			
	Thermal Zone Layout	[value]	n/a	Thermal Zone Layout	=[value]	n/a			
	Perimeter Zone Depth	[value]	ft	Depth	=[value]	ft			
				Thermal Zone Layout	Perimeter	n/a			
				Unit of Measure	ft	n/a			
	Subsection ID	[value]	n/a	(No corresponding field)					Hierarchical term outside scope of BEDES
	Delivery ID	[value]	n/a	(No corresponding field)					Hierarchical term outside scope of BEDES
	HVAC Schedule ID	[value]	n/a	(No corresponding field)					Hierarchical term outside scope of BEDES
	Floor Area Type	Gross	n/a	Floor Area Qualifier	Gross	n/a			
		Net	n/a	Floor Area Qualifier	Net	n/a			
		Finished	n/a	Finished Status	Finished	n/a			
		Footprint	n/a	Floor Area Qualifier	Footprint	n/a			
		Rentable	n/a	Floor Area Qualifier	Rentable	n/a			
		Occupied	n/a	Occupied Status	Occupied	n/a			
		Lighted	n/a	Lighting Status	Artificial lighting	n/a			
		Davlit	n/a	Lighting Status	Substantial daylighting	n/a			
		Heated	n/a	Conditioning Status	Heated	n/a			
		Cooled	n/a	Conditioning Status	Cooled	n/a			
		Conditioned	n/a	Conditioning Status	Conditioned	n/a			
		Unconditioned	n/a	Conditioning Status	Unconditioned	n/a			
		Semi-conditioned	n/a	Conditioning Status	Semi-conditioned	n/a			
		Heated and Cooled	n/a	Conditioning Status	Conditioned	n/a			
		Heated and Cooled	n/a	Conditioning Status	Conditioned	n/a			
		Cooled only	n/a	Conditioning Status	Conditioned	n/a			
		Ventilated	n/a	Conditioning Status	Ventilated	n/a			
		Englaced	n/a	Dramicas Englasura	Englaced	n/a			
		Enclosed	11/a	Premises Enclosure	Eliciosed	11/d			
		Non-Enclosed	n/a	Premises Enclosure	Non-Enclosed	n/a			
		Open	n/a	Premises Enclosure	Open	n/a			
		Lot	n/a	Spatial Unit Type	Lot	n/a			
		Custom	n/a	Floor Area Qualifier	Custom	n/a			
	Floor Area Custom Name	[value]	n/a	(No corresponding field)					This field is described in the BEDES "Guidelines" tab when "Custom" is selected, but is not specifically listed as a BEDES term.
	Floor Area Value	[value]	ft2	Area	=[value]	ft2			·····
	Story	[value]	n/a	(No corresponding field)					
	Percentage of Common	[value]	%	Occupancy Classification	Common area	n/a			
	Space			Descentage of Total Area	-fuelue]	P/			
	Conditioned Volume	[velue]	42	Conditioning Status	=[value]	70			
	conditioned volume	[value]	11.5	Volume	-fuelue]	11/d 4-2			
	Floors Above Crede	[velve]	n/n	Volume	=[value]	11.5			
	Floors Above Grade	[value]	n/a	Location	Above grade	n/a			
				Spatial Unit Type	FIDORS	n/a			
	Flaren Balan Crada	for the state	- 1-	Quantity	=[value]	n/a			
	Floors Below Grade	[value]	n/a	Location Creation	Below grade	n/a			
				Spatial Unit Type	FIDORS	n/a			
			,	Quantity	=[value]	n/a			
	Floors Partially Below Grade	[value]	n/a	Location	Partially Below Grade	n/a			
				Spatial Unit Type	Floors	n/a			
			<u>.</u>	Quantity	=[value]	n/a			
	Floor to Floor Height	[value]	π	Floor Height Measurement	Floor-to-Floor Height	n/a			
				Height	=[value]	π,			
				Unit of Measure	ft	n/a			
	Floor to Ceiling Height	[value]	ft	Floor Height Measurement	Floor-to-Ceiling Height	n/a			
				Height	=[value]	ft			
				Unit of Measure	ft	n/a			
	Primary Contact ID	[value]	n/a	(No corresponding field)					Hierarchical term outside scope of BEDES
	Premises Notes	[value]	n/a	Notes	=[value]	n/a			
	Premises Name	[value]	n/a	Identifier Label	Name	n/a			
				Identifier	=[value]	n/a			
	Thermal Zone ID	[value]	n/a	(No corresponding field)					Hierarchical term outside scope of BEDES
	Occupancy Schedule ID	[value]	n/a	(No corresponding field)					Hierarchical term outside scope of BEDES
	Occupants Activity Level	[value]	n/a	Occupant Activity Level	=[value]	n/a			
	Schedule Category	[value]	n/a	Schedule Category	=[value]	n/a			
	Day Type	[value]	n/a	Schedule Day	=[value]	n/a			
	Partial Operation Percentage	[value]	%	Partial Operation Percentage	=[value]	%			

BuildingSync Table			BuildingSync						
Name	BuildingSync Term	BuildingSync Value	Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
	Schedule Period Begin Date	[value1]-[value2]-[value3]	CCYY-MM-DD	Schedule Period Begin Month	=[value2]	n/a	Two digit field representing		
							Month must be converted to		
							an integer		
				Schedule Period Begin Day	=[value3]	n/a	Two digit field representing		
							Day must be converted to an		
							integer		
	Schedule Period End Date	[value1]-[value2]-[value3]	CCYY-MM-DD	Schedule Period End Month	=[value2]	n/a	Two digit field representing		
							Month must be converted to		
							an integer		
				Schedule Period End Day	=[value3]	n/a	Two digit field representing		
							Day must be converted to an		
							integer		
	Day Start Time	[value]	hh:mm:ss.sss	Day Start Time	=[value]	hhmm	Time format must be		
							converted to a 4-digit		
							military time for BEDES.		
	Day End Time	[value]	hh:mm:ss.sss	Day End Time	=[value]	hhmm	Time format must be		
							converted to a 4-digit		
							military time for BEDES.		
	Spatial Unit Type	[value]	n/a	Spatial Unit Type	=[value]	n/a			
	Number of Units	[value]	n/a	Quantity	=[value]	n/a			
	Unit Density	[value]	n/a	(No corresponding field)					BEDES does not have unit densities, so this
									field cannot be mapped. The unit count and
									relevant floor area are mapped elsewhere, so
									no information is lost.

Mapping of BuildingSync Version 2.0 to BEDES Version 1.2 - Systems Data

Enumerations are only listed when there is a difference between BuildingSync and BEDES, otherwise "=[value]" is used. The BuildingSync enumerations must include all values to allow mapping, but some values in the corresponding BEDES term may not be used.

BuildingSync			BuildingSync						
Table Name	BuildingSync Term	BuildingSync Value	Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
Air Distribution	Duct Configuration	[value]	n/a	Duct Configuration	=[value]	n/a			
	Heating Delivery ID	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Cooling Delivery ID	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Static Pressure Reset Control	True	n/a	Control Strategy	Static pressure reset	n/a			
		False	n/a	(No corresponding field)					A false value for this term in BuildingSync maps to the absence of a
	Currents Alle Terrenerations Departs	T	- 1-	Cambral Charter	Current and the second second				value in BEDES.
	Control	False	n/a	(No corresponding field)	Supply air temperature reset				A false value for this term in BuildingSync mans to the absence of a
				(value in BEDES.
	Minimum Outside Air	[value]	%	Setpoint Type	Outside air percentage	n/a			
	Percentage			Setpoint Low	=[value]	%			
	Maximum OA Flow Rate	[value]	ft3/min	Setpoint Type	Outside air flow rate	n/a			
	Duct Inculation Condition	[units]	- 1-	Setpoint High	=[value]	ft3/min			
	Duct Insulation Condition	[value]	n/a	Duct Insulation Condition	=[value]	n/a			
	Duct Insulation R-Value	[value]	ft2-F-hr/Btu	Duct Insulation R-Value	=[value]	ft2-°F-hr/Btu			
	Duct Surface Area	[value]	ft2	Duct Surface Area	=[value]	ft2			
	Supply Duct Percent	[value]	%	Supply Duct Percent	=[value]	%			
	Conditioned Space			Conditioned Space					
	Return Duct Percent	[value]	%	Return Duct Percent	=[value]	%			
	Static Pressure Installed	[value]	Pa	Static Pressure	-fyalue]	Pa			
	Duct Type	Flex uncategorized	n/a	Duct Type	Flex	n/a			
		Grey flex	n/a		Grey flex	n/a			
		Mylar flex	n/a	I	Mylar flex	n/a			
		Duct board	n/a	ļ	Duct board	n/a			
		Sheet metal	n/a	ł	Sheet metal	n/a			
		Galvanized	n/a	ł	Galvanized	n/a			
		Flexible	n/a	ł	Flexible	n/a			
		No ducting	n/a	ł	No ducting	n/a			
		Other	n/a	t	Other	n/a			
		Unknown	n/a	Ť	Unknown	n/a			
	Duct Leakage Test Method	[value]	n/a	Duct Leakage Test Method	=[value]	n/a			
	Duct Pressure Test Leakage	[value]	cfm	Duct Pressure Test Leakage	=[value]	cfm			
	Rate			Rate					
	Supply Fraction of Duct	[value]	%	Supply Fraction of Duct	=[value]	%			
	Leakage			Leakage					
	Duct Pressure Test Leakage	[value]	76	Duct Pressure Test Leakage	=[value]	76			
	Air Side Economizer	[present]	n/a	Air-Side Economizer	Is present	n/a			
		[not present]	n/a		ls not present	n/a			
	Air Side Economizer Type	[value]	n/a	Air-Side Economizer Type	=[value]	n/a			
	Economizer Control	[value]	n/a	Control Strategy	=[value]	n/a			
	Economizer Dry Bulb Control	[value]	°F	Setpoint Type	Dry bulb control point	n/a			
	Point		a. (1)	Setpoint Low	=[value]	°F			
	Economizer Enthalpy Control	[value]	Btu/ID	Setpoint Type	Enthalpy control point	n/a			
	Fronomizer Low Temperature	[value]	۰r	Setpoint Low	=[value] Temperature lockout	blu/ib			
	Lockout	[value]	·	Setpoint Low	=[value]	°F			
Heating System	Heating Plant Type	Boiler	n/a	Heating Type	Boiler				BEDES does not have a general entry for boiler or district heating.
		DistrictHeating	n/a	Heating Type	District				These plants are identified through other fields in BuildingSync.
		SolarThermal	n/a	Heating Type	Solar thermal	n/a			BEDES: Boiler is in BEDES v1.2. Changing centrally located plant to
		NoHeating	n/a	Heating Type	No heating	n/a			"District" in V2.0. Can use "Heating Medium" to further qualify if
		OtherCombination	n/a	Heating Type	Other	n/a			desired.
	Unables Course Trees	Unknown	n/a	Heating Type	Unknown	n/a			Control booting also to not differentiated from an all subarra in
	nearing source Type	SourceReatingPlantit	n/a	(No corresponding field)					REDES, therefore the Heating Plant value is not relevant in the
		HeatPumn	n/a	(No corresponding field)					mapping. Furnaces and heat numps are not a general category in
		OtherCombination	n/a	Heating Type	Other	n/a			BEDES, and are therefore identified through the Furnace Type and
		NoHeating	n/a	Heating Type	No heating	n/a			Heat Pump Type fields in BuildingSync.
		Unknown	n/a	Heating Type	Unknown	n/a			
	Furnace Type	Warm air	n/a	Heating Type	Furnace warm air	n/a			4
		Fireplace	n/a	ł	Fireplace	n/a			
1		Heating stove	n/a	ł	Heating stove	n/a			4
	1	Individual snace heater	n/a	ł	Individual snace beater	n/a			4
		Other	n/a	t	Other	n/a			1
		Unknown	n/a	Ť	Unknown	n/a			
	Heat Pump Type	Split		Heating Type	Split heat pump	n/a			
		Packaged Terminal			Packaged terminal heat pump	n/a			
		Packaged Unitary		ł	Packaged unitary heat pump	n/a			
		Other		ł	Other	n/a			
	Boiler Tyne	onisiOWn [value]	n/a	(No corresponding field)	OHKIOWI	n/d			
	Burner Type	[value]	n/a	Burner Type	=[value]	n/a	1		
1	Ignition Type	[value]	n/a	Ignition Type	=[value]	n/a			
1	Heating Staging	[value]	n/a	Heating Staging	=[value]	n/a			
1	Number of Heating Stages	[value]	n/a	Number of Heating Stages	=[value]	n/a			
	Heating Stage Capacity	[value]	%	Heating Stage Capacity	=[value]	%	·		
1	Fraction			Fraction		<u> </u>			
	Priority	Primary	n/a	Priority	Primary	n/a			1
1		Secondary	n/a	ł	Secondary	n/a			4
	1	Tertiary	n/a	ł	Tertiary	n/a			4
1	1	Daux-Up Other	nya n/a	ł	Other	n/a			4
	Annual Heating Efficiency	[value]	n/a	Efficiency Qualifier	Annual heating	n/a			Units are those assigned for the corresponding Efficiency Metric
1	Value	[- 9 af	Efficiency Value	=[value]	n/a			Qualifier.
	Annual Heating Efficiency Unit	[value]	n/a	Efficiency Metric Qualifier	=[value]	n/a	1		
1	in the second se				· · · · ·	1			1

Name	BuildingSync Term	BuildingSync Value	Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
	Combustion Efficiency	[value]	%	Efficiency Qualifier	Combustion	n/a			
-				Efficiency Value	=[value]	%			
	Thermal Efficiency	[value]	%	Efficiency Qualifier	Thermal	n/a			
5	Heating Medium	fvaluel	n/a	Heating Medium	=[value]	76 n/a			
Ĩ	Pipe Insulation Thickness	[value]	in.	Pipe Insulation Thickness	=[value]	inches			
1	Pipe Location	[value]	%	Pipe Location	=[value]	%			
1	input Capacity	[value]	MMBtu	Input Capacity	=[value]	MMBtu			
H	Dutput Capacity	[value]	MMBtu	Output Capacity	=[value]	MMBtu			
ĥ	Boiler Insulation R Value	[value]	hr-ft2-F/Btu	Boiler Insulation R-Value	=[value]	hr-ft2-°F/Btu			
Ū	Boiler Insulation Thickness	[value]	in.	Boiler Insulation Thickness	=[value]	inches			
L	Burner Turndown Ratio	[value]	n/a	Burner Turndown Ratio	=[value]	n/a			
1	Boller Percent Condensate	[value]	%	Boiler Percent Condensate	=[value]	%			
H	Keturn Hot Water Boiler Minimum	fvaluel	anm	Keturn Setnoint Tyne	Flow Rate	n/a			BEDES does not have a specific flow rate type for hot water boilers
i i	Flow Rate	[mine]	6P111	Setpoint Low	=[value]	ft3/min	=[value]*0.133681		bebes does not have a specific now rate type for not water boliers.
1	Hot Water Boiler Maximum	[value]	gpm	Setpoint Type	Flow Rate	n/a			
1	Flow Rate			Setpoint High	=[value]	ft3/min	=[value]*0.133681		
1	Boller EWT	[value]	°F	Setpoint Type	Return water temperature	n/a			
				Setpoint Low	=[value]	°F °c			
h	Roller I WT	[value]	°F	Setpoint Type	Supply water temperature	n/a			
		()	-	Setpoint Low	=[value]	°F			
L				Setpoint High	=[value]	°F			
	Condensing Operation	True	n/a	Condensing Operation	Condensing	n/a			
- b	Steam Boiler Minimum	Faise	n/a	Setopint Type	Not condensing	n/a			
ľ	Operating Pressure	[rend]	prof.	Setpoint Type	=[value]	Pa	=[value]*6895		
- B	Steam Boiler Maximum	[value]	psi	Setpoint Type	Pressure	n/a			
	Operating Pressure		ľ	Setpoint High	=[value]	Pa	=[value]*6895		
	Hot Water Reset Control	[value]	n/a	Reset Routine	=[value]	n/a			
F	District Heating Type	Hot water	n/a	Heating Type	District hot water	n/a			
		Direct steam	n/a	+	District steam direct	n/a			
		Steam to not water neat	n/a		District steam to not water HX	n/a			
		Other	n/a	t	Other	n/a			
		Unknown	n/a		Unknown	n/a			
1	Refrigerant	[value]	n/a	Refrigerant	=[value]	n/a			
H	Refrigerant Charge Factor	[value]	% *r	Refrigerant Charge Factor	=[value]	% °E			
	Switchover Temperature	lvainel	r	Switchover Temperature	=[value]	r .			
ľ	Heat Pump Backup System Fuel	[value]	n/a	Heat Pump Backup System Fuel	=[value]	n/a			
L									
H	Heat Pump Backup AFUE	[value]	n/a	Heat Pump Backup AFUE	=[value]	n/a			
H	Frequency of Maintenance	[value]	n/a n/a	HVAC Systems Controlled	=[value] Heating	n/a			
ľ		[mine]	1,40	Reset Routine	=[value]	n/a			
ī.	AC Adjusted	[value]	n/a	HVAC Systems Controlled	Cooling	n/a			
Ļ				Reset Routine	=[value]	n/a			
1	Setpoint Temperature Heating	[value]	°F	Setpoint Type	Room temperature	n/a			
				Setpoint Setting Condition	Normal	n/a			
				HVAC Systems Controlled	Heating	n/a			
				Setpoint Low	=[value]	°F			
1	Setback Temperature Heating	[value]	۴F	Setpoint Type	Room temperature	n/a			
				Setpoint Setting Condition	Reset	n/a			
				HVAC Systems Controlled	Heating	n/a			
				Setpoint Low	=[value]	°F			
h	Primary HVAC Control Strategy	Pneumatic	n/a	Control Strategy	Pneumatic	n/a			
	,	Electric	n/a		Electronic	n/a			
		Other	n/a	1	Other	n/a			
Ļ		Unknown	n/a		Unknown	n/a			
H	Heating Plant ID	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES
ļ.	neaung Supply Air Temperature	[value]	r	Setupint Type	Supply air temperature	n/a			
				HVAC Systems Controlled	Heating	n/a	1		
			1	Setpoint Low	=[value]	°F			
L				Setpoint High	=[value]	°F			
	Heating Supply Air	[value]	n/a	Setpoint Type	Supply air temperature	n/a			
	Temperature Control			HVAC Systems Controlled	Heating	n/a			
ŀ	Reheat Control Mathod	Dual Maximum	n/a	Control Strategy	=[value] Dual maximum logic	n/a			
- ['	schedt cond or Wethod	Single Maximum	n/a	control strategy	Single maximum logic	n/a	1		1
		Other	n/a	1	Other	n/a]
		Unknown	n/a		Unknown	n/a			4
				Control Strategy	Reheat	- 1-			4
ŀ	Reheat Source	[value]	n/a	serpoint Type Rebeat Source	supply air temperature	n/a			
ľ	Reheat Plant ID	[value]	n/a	(No corresponding field)	-[*0/00]	19.4			Hierarchical element not used in BEDES
ľ	Dutside Air Reset Maximum	[value]	°F	Setpoint Type	Supply air temperature	n/a	1		
- þ	Heating Supply Temperature			Setpoint Setting Condition	Reset	n/a			
			1	HVAC Systems Controlled	Heating	n/a			
H	Outrido Air Porot Minimum	fusion	۰c	Setpoint High	=[value]	"F			
	Heating Supply Temperature	[value]	r	Setpoint Type	Supply air temperature	n/a			
ľ				HVAC Systems Controlled	Heating	n/a	1		
				Setpoint Low	=[value]	°F			
Ī	Dutside Air Temperature	[value]	°F	Setpoint Type	Outside air temperature limit	n/a			
	Upper Limit Heating Reset			Setpoint Setting Condition	Reset	n/a			
1	Lontrol		1	HVAC Systems Controlled	Heating	n/a			
Ŀ,	Outside Air Temperature	[value]	°F	Setpoint High	=[value] Outside air temperature limit	n/a			
	Lower Limit Heating Reset	(b)	1.	Setpoint Setting Condition	Reset	n/a	1		
- 6	Control		1	HVAC Systems Controlled	Heating	n/a	1		1

Normal	ync me	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
Image and the second of the second			AL 18		Setpoint Low	=[value]	°F			
Biology <	1 C	ooling Plant Type	Chiller	n/a	Cooling Type	(No corresponding field)				BEDES does not have a general entry for chillers. These plants are
Nome Nome Nome Nome Nome Nome Nome Nome Nome Name N			DistrictChilledWater	n/a	+	District chilled water	n/a			identified till obgri other fields in buildingsync.
			NoLooling	n/a	+	No cooling	n/a			-
Normal Normal			Unknown	n/a	+	Unknown	n/a			-
	c	hiller Tyne	Vapor compression	n/a	Cooling Type	Vapor compression chiller	n/a			
Image Image <t< td=""><td></td><td></td><td>Absorption</td><td>n/a</td><td>8.19-</td><td>Absorption chiller</td><td>n/a</td><td></td><td></td><td></td></t<>			Absorption	n/a	8.19-	Absorption chiller	n/a			
Nome Nome No Nome No No <			Other	n/a	1	Other	n/a			
Subjection Subjec			Unknown	n/a	1	Unknown	n/a			
	C	ooling Source Type	CoolingPlantID	n/a	Cooling Type	(No corresponding field)				Central cooling plants are not differentiated from zonal systems in
			DX	n/a	1	(No corresponding field)				BEDES, therefore the Cooling Plant value is not relevant in the
			EvaporativeCooler	n/a	I	Evaporative cooler	n/a			mapping. DX is not a general category in BEDES, and is therefore
			OtherCombination	n/a	1	Other	n/a			identified through the DX System Type field in BuildingSync.
Name of the second s			NoCooling	n/a	1	No cooling	n/a			
Disk Disk Disk Disk Disk Disk Disk Print Sector 2000 Sector 2000 Sector 2000 Sector 2000 Sector 2000 Print Sector 2000 Sector 2000 Sector 2000 Sector 2000 Sector 2000 Print Sector 2000 Sector 2000 Sector 2000 Sector 2000 Sector 2000 Print Sector 2000 Sector 2000 Sector 2000 Sector 2000 Sector 2000 Print Sector 2000 Sector 2000 Sector 2000 Sector 2000 Sector 2000 Print Sector 2000 Sector 2000 Sector 2000 Sector 2000 Sector 2000 Print Print Sector 2000 Sector 2000 Sector 2000 Sector 2000 Sector 2000 Print Prin Print Prin Print Print Print Prin Print Print Prin Prin Print	L		Unknown	n/a		Unknown	n/a			
	C	X System Type	Split DX air conditioner	n/a	Cooling Type	Split DX air conditioner	n/a			
Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Normal sector Nor			Packaged terminal air	n/a		Packaged terminal air	n/a			
Image of the second			Solit best numn	n/a	-	Solit heat nump	n/a			
bit bit bit bit bit bit bit bit index index index index index index index index index			Packaged terminal heat numn	n/a	†	Packaged terminal heat numn	n/a			
			(PTHP)			· · · · · 8 · · · · · · · · · · · · · ·				
Partial <			Variable refrigerant flow	n/a	1	Variable refrigerant flow	n/a			
b b<			Packaged/unitary direct	n/a	T	Packaged unitary direct	n/a			
Part of the section of the sectin of the section of the section of the section of the s			expansion/RTU			expansion RTU				
Part of the sector o			Packaged/unitary heat pump	n/a	1	Packaged unitary heat pump	n/a			
Image: state			Single package vertical air	n/a	1	Single package vertical air	n/a		1	
Part of the state of		ļ	conditioner		+	conditioner				
Processing Proces			Single package vertical heat	n/a		Single package vertical heat	n/a	1	1	
Image: state			pump	- /-	ł	pump	- (-		1	
Image of the state o			Unef	nya o/o	ł	Uner	n/a		1	
bits Conta Fuel C	-	ooling Modium	Unknown	n/a	Cooling Modium	Unknown	n/a			
Bind Price Mail	7	oning System Type	[value]	n/a	Zoning System Type	-[value]	n/a			
Intrine Instant sector Instant sector Instant sector Construction Add Add Add Add Add Construction Add Add Add Add Add Add Construction Add Add Add Add Add Add Add Construction Add Add Add Add Add Add Add Construction Add <	f	ooling Plant ID	[value]	n/a	(No corresponding field)		- 4 4			Hierarchical element not used in REDES
Optimization Mail Alt Mail Alt Mail	E	VAC pipe configuration	[value]	n/a	Pipe Configuration	=[value]	n/a			nierarenear element not asea in bebes
Dief Control Jamp Maid All State operation of the point of t	c	hiller Compressor Driver	[value]	n/a	Chiller Compressor Driver	=[value]	n/a			
Image Image <t< td=""><td>C</td><td>hiller Compressor Type</td><td>[value]</td><td>n/a</td><td>Chiller Compressor Type</td><td>=[value]</td><td>n/a</td><td></td><td></td><td></td></t<>	C	hiller Compressor Type	[value]	n/a	Chiller Compressor Type	=[value]	n/a			
Index Index <t< td=""><td>c</td><td>ompressor Staging</td><td>[value]</td><td>n/a</td><td>Compressor Staging</td><td>=[value]</td><td>n/a</td><td></td><td></td><td></td></t<>	c	ompressor Staging	[value]	n/a	Compressor Staging	=[value]	n/a			
Number Numer Numer Numer <td>c</td> <td>ondenser Plant</td> <td>AirCooled</td> <td>n/a</td> <td>Condenser Type</td> <td>Air cooled</td> <td>n/a</td> <td></td> <td></td> <td></td>	c	ondenser Plant	AirCooled	n/a	Condenser Type	Air cooled	n/a			
Image: state	Converser Plan		WaterCooled	n/a		(No corresponding field)				BEDES does not have general Water Cooled or Ground Sourcce categories, but it can be inferred based on more detailed elements.
Image: state			GroundSource	n/a		(No corresponding field)				
Image Image <t< td=""><td></td><td></td><td>GlycolCooledDryCooler</td><td>n/a</td><td>+</td><td>Glycol cooled, dry cooler</td><td>n/a</td><td></td><td></td><td></td></t<>			GlycolCooledDryCooler	n/a	+	Glycol cooled, dry cooler	n/a			
Number Code Open Solution Open Solut			Other	n/a	+	Other	n/a			
Name Name <t< td=""><td></td><td>Inter Control Condenses Trees</td><td>Unknown</td><td>n/a</td><td>Condenso Turo</td><td>Unknown</td><td>n/a</td><td></td><td></td><td></td></t<>		Inter Control Condenses Trees	Unknown	n/a	Condenso Turo	Unknown	n/a			
Diff A Diff A Interm A Interm A Interm A Interm A Group Sourd Surrer Yape A <td< td=""><td>v</td><td>vater Cooled Condenser Type</td><td>Cooling tower</td><td>n/a</td><td>Condenser Type</td><td>water cooled, cooling tower</td><td>n/a</td><td></td><td></td><td></td></td<>	v	vater Cooled Condenser Type	Cooling tower	n/a	Condenser Type	water cooled, cooling tower	n/a			
Maxware Maxware <t< td=""><td></td><td></td><td>Othor</td><td>o/2</td><td>+</td><td>Othor</td><td>n/2</td><td></td><td></td><td></td></t<>			Othor	o/2	+	Othor	n/2			
Bond Stort Pype (and Stort Pype) Bond log round vater No. Conference Pype (and set of the set of			Unknown	n/a	t	Unknown	n/a			
Image: state	G	round Source Type	Open loop ground water	n/a	Condenser Type	Water cooled, open loop ground	n/a			
Non- Non- Non- Non- Non- Non- Decision or Non-				· ·		water				
Intro intro intro intro intro intro intro intro Adorption instands out Islaid Isl			Closed loop ground source	n/a		Water cooled, closed loop ground source	n/a			
Interpretation Interpr			Other	n/a	I	Other	n/a			
Aborgion heat Socre (study n/s Aborgion heat Socre (study n/s (study n/s Aborgion heat Socre (study n/s Aborgion States (study n/s (study n/s Aborgion States (study n/s Konster States (study n/s (study n/s (study n/s (study n/s (study n/s (study			Unknown	n/a		Unknown	n/a			
Aborg of Same (what Aboration Same (what	Α	bsorption Heat Source	[value]	n/a	Absorption Heat Source	=[value]	n/a			
Instant Instant <t< td=""><td>Α</td><td>bsorption Stages</td><td>[value]</td><td>n/a</td><td>Absorption Stages</td><td>=[value]</td><td>n/a</td><td></td><td></td><td></td></t<>	Α	bsorption Stages	[value]	n/a	Absorption Stages	=[value]	n/a			
State Date ControlI bale ISiState IState State IState 	N	umber of Discrete Cooling	[value]	n/a	Number of Discrete Cooling	=[value]	n/a			
Looking Jable Looking / Looking Jable Looking J	S	tages			Stages					
Departion Under Departion Departion Departion <thdepartion< th=""> <thdepartion< th=""> <</thdepartion<></thdepartion<>	E	ooming Stage Capacity	[value]	/* n/a	Condenser Fan Socod	-ivalue]	/0		1	
Annual Coding (filciency Value) Na Chicknow Counting (filciency Value) Na Unit are those assigned for the corresponding (filciency Metric Counting (filciency Value) Na Minual Coding (filciency Value) Na Ifficiency Value) Na Obtained Obtained <t< td=""><td>1</td><td>ineration</td><td>[value]</td><td>iya</td><td>Oneration</td><td>-[sqinc]</td><td>iv d</td><td> </td><td>1</td><td></td></t<>	1	ineration	[value]	iya	Oneration	-[sqinc]	iv d		1	
Note of the set		nnual Cooling Efficiency Value	[value]	n/a	Efficiency Qualifier	Annual cooling	n/a			Units are those assigned for the corresponding Efficiency Metric
Annal Coding Efficiency Units Value Value <t< td=""><td>ľ</td><td></td><td></td><td>1</td><td>Efficiency Value</td><td>=[value]</td><td>n/a</td><td></td><td></td><td>Qualifier.</td></t<>	ľ			1	Efficiency Value	=[value]	n/a			Qualifier.
Name Fuel Noise N	A	nnual Cooling Efficiency Units	[value]	n/a	Efficiency Metric Qualifier	=[value]	n/a	1	1	
Minimum Part Load Ratio Part Load Ratio Winki I shale) Induel No N/a Induel No N/a Memory No	ſ			1	.,	l. <i>'</i>		1	1	
Part Load Ratio Below Within Hords Ratio Below Within Hords Ratio Responses Isabel Not expressed as a percentage in BEDES, but the value is the sam hords Ratio Responses Exponsive Cooling Type Chiled Water Reset Control Chiled Water Reset Control Part Cooling Type Chiled Water Reset Control Part Cooling Type Part Part Part Part Part Part Part Part	Ν	1inimum Part Load Ratio	[value]	n/a	Minimum Part Load Ratio	=[value]	n/a			
bit Gas Bipass Operates led bit Gas Bipass Operates led	P	art Load Ratio Below Which	[value]	%	Part Load Ratio Below Which	=[value]	n/a			Not expressed as a percentage in BEDES, but the value is the same.
Image: symplemetry in the sy	F	ot Gas Bypass Operates			Hot Gas Bypass Operates		L			
Child Water Rest Control Ivalue) Na Stepin Type Sough vaster removance Na Image: Control Strategin Type Na Ima	E	vaporative Cooling Type	[value]	n/a	Evaporative Cooling Type	=[value]	n/a			
Image: state in the s	C	hilled Water Reset Control	[value]	n/a	Setpoint Type	Supply water temperature	n/a			
Config Cover Control Type Control StrategyIn Rest Rotutine (Value)In AIn AIn AIn AConfig Cover Control Type Water Cooled Condensor TypeN/aControl StrategyN/aControl Strategy<					Setpoint Setting Condition	Reset	n/a			
Control river Invalue	H				Reset Routine	=[value]	n/a			
Nutre Cooled Condensor Part Control Fixed Flow N/A Nutre Cooled Condensor Part Para Position Flow N/A Made Control Part Para Position Flow N/A Control Two Position Flow N/A Two Position Flow N/A Image Control Para Position Flow N/A Marce Control Two Position Flow N/A Two Position Flow N/A Image Control Para Position Flow N/A Other N/A Two Position Flow N/A Image Control Para Position Flow N/A Image Control Para Position Flow N/A Other N/A Two Position Flow N/A Image Control Para Position Flow N/A Image Control Para Position Flow N/A Other N/A Image Control Para Position Flow N/A Image Control Para Position Flow N/A Vater Side Economizer Tor Flow Flow Flow Flow Flow Flow Flow Flow	۲ ۰	ooning rower control type	[value]	nya	Condenses Tun-	=[value] Water cooled co =!!	n/a			
Control The Position Flow N/A Production Flow N/A Outrol Variable Flow N/A Variable Flow N/A Variable Flow N/A Other N/A Variable Flow N/A Variable Flow N/A Variable Flow N/A Uthnown N/A Variable Flow N/A Variable Flow N/A Image: Non-Net State St		Jater Cooled Condonror El	Fixed Flow	0/2	Control Strategy	water cooled cooling tower	n/a		1	
$ \begin{array}{ c c c c c } \hline Variable flow & n/a & $,	ontrol	Two Position Flow	n/a		Two position flow	n/a			
$ \begin{array}{ c c c c c c } \hline Driver & n/a & click & c$	ľ		Variable Flow	n/a	t	Variable flow	n/a	1	1	
Index Index <t< td=""><td></td><td></td><td>Other</td><td>n/a</td><td>1</td><td>Other</td><td>n/a</td><td>1</td><td></td><td></td></t<>			Other	n/a	1	Other	n/a	1		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		1	Unknown	n/a		Unknown	n/a			
	L				Setpoint Type	Flow Rate	n/a			
	c	ell Count	[value]	n/a	Cell Count	=[value]	n/a			
$ \begin{array}{ c c c c c c } ncc present & n/a & $	V	/ater Side Economizer	[present]	n/a	Water-Side Economizer	Is present	n/a			
$ \begin{array}{ c c c c c c } \hline \begin{tabular}{ c c c c } \hline \begin{tabular}{ c c c c c c c } \hline \begin{tabular}{ c c c c c c c } \hline \begin{tabular}{ c c c c c c c } \hline \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	H	latas filda fasas selas T	[not present]	n/a	Water Cida Cara amina T	is not present	n/a			
Temperature Maximum Table Product type popprivate type type <thtype< th=""></thtype<>	N.	Vater Side Economizer Type	[value]	nya •c	vvaler-Side Economizer Type	=[valU8]	n/a		1	
$ \begin{array}{ c c c c c c c } \hline \begin{tabular}{ c c c c c c } \hline \begin{tabular}{ c c c c c c c } \hline \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Ļ	rater side Economizer	[value]	r	Serpoint Type	Supply water temperature	n/a			4
Water Side Economizer DB [value] r_{e} $r_{equation ratio}$ $r_{equation ratio r$	Ľ	emperature maximum		1	Setupint High	-fvalue]	°E		1	4
Temperature Maximum Instrume Instrum Instrume Instrume <td></td> <td>/ater Side Economizer DB</td> <td>[value]</td> <td>۴F</td> <td>Setpoint Type</td> <td>Dry bulb control point</td> <td>n/a</td> <td></td> <td>1</td> <td></td>		/ater Side Economizer DB	[value]	۴F	Setpoint Type	Dry bulb control point	n/a		1	
Inverse Inverse Continge IV/d Active Dehundification True n/a Keption Highen 4/sake] 1% Active Dehundification True n/a Active Dehundification is parallable n/a False n/a Is not available n/a Inversenting n/a Evaporatively Cooled [present] n/a Condenser Kora zavilable n/a	T	emperature Maximum	[renoc]	1.	HVAC Surfame Controlled	Cooling	0/2			4
Cardwee Dehunidification True //a //a //a Active Dehunidification 4 available n/a	1	en per a con el maximum		1	Setupint High	-fvalue]	°E		1	4
Factor Intel Intel <t< td=""><td>H</td><td>ctive Debumidification</td><td>True</td><td>0/2</td><td>Active Dohumidification</td><td>-[value]</td><td>r' n/2</td><td></td><td>1</td><td></td></t<>	H	ctive Debumidification	True	0/2	Active Dohumidification	-[value]	r' n/2		1	
Evaporatively Cooled [present] n/a Evaporatively Cooled is available n/a Condenser Ind resent] n/a Condenser Ind resent] n/a	1	cove Denomication	False	n/a	Active Denumication	is not available	n/a			
Condenser In on recent n/a Condenser I knot valibile n/a	F	vanoratively Cooled	[nresent]	n/a	Evanoratively Cooled	is available	n/a	1		
	2	ondenser	[not present]	n/a	Condenser	is not available	n/a	1		

Sync	BuildingSyme Torre	BuildingSune Value	BuildingSync	REDES Torm	Value Monning	BEDES Unit	Unit Conversion	Other Conversion Operation	Notos
ame	Evaporatively Cooled	[value]	°F	Setpoint Type	Dry bulb control point	n/a	Unit COnversion	Other Conversion Operations	Notes
0	Condenser Maximum								
÷	remperature	[units]	er.	Setpoint High	=[value]	°F			
	Condenser Minimum	[value]		Setponit Type	biy baib control point	iya			
1	Temperature			Setpoint Low	=[value]	°F			
0	Chilled Water Supply	[value]	°F	Setpoint Type	Supply water temperature	n/a			
	remperature			HVAC Systems Controlled Setpoint Low	Cooling =[value]	°F			
				Setpoint High	=[value]	°F			
0	Condenser Water Temperature	[value]	°F	Setpoint Type	Supply water temperature	n/a			There doesn't appear to be a way to differentiate condenser and
				Setpoint Low	=[value]	°F			chilled water supply temperatures in BEDES.
				Setpoint High	=[value]	°F			
F	Fan Coll Type	[value]	n/a	Cooling Delivery Type	=[value]	n/a			
ľ	Air Delivery Type	Central fan	n/a	Cooling Delivery Type	Central air handler single duct	n/a			BEDES has separate options for Heating Delivery Type and Cooling Delivery Type, Building Sync does not make the distinction, because
6	Duct Configuration	Single	n/a						Delivery Type can be referenced by either a heating system or
0	CoolingSourceID	(Not null)	n/a						cooling system, or both.
,	Air Delivery Type	Central fan	n/a	Cooling Delivery Type	Central air handler dual duct	n/a			BEDES has separate options for Heating Delivery Type and Cooling
6	Duct Configuration	Dual	n/a	1					Delivery Type. Buildingsync does not make the distinction, because Delivery Type can be referenced by either a heating system or
0	CoolingSourceID	(Not null)	n/a	1					cooling system, or both.
	Air Delivery Type	Induction units	n/a	Cooling Delivery Type	Chilled heam	n/a			It appears induction units in cooling mode are treated as chilled
									beams in BEDES, but I'm not positive.
		Low pressure under floor	n/a	+	Under floor	n/a			
		Other	n/a	t	Other	n/a			
Ļ		Unknown	n/a	I	Unknown	n/a			
0	CoolingSourceID	(Not null)	n/a			,			
ľ	wir Delivery Type	Lentral fan Induction units	nya n/a	neating Delivery Type	Air riangler Induction units	n/a n/a			Delivery Type. BuildingSync does not make the distinction because
		Low pressure under floor	n/a	1	Low pressure under floor	n/a			Delivery Type can be referenced by either a heating system or
		Local fan	n/a	+	Local fan	n/a			cooling system, or both.
		Other	n/a	+	Other	n/a n/a			
1	HeatingSourceID	(Not null)	n/a		UNKNOWN	100			
1	Terminal Unit	CAV terminal box with reheat	n/a	Cooling Delivery Type	Terminal reheat	n/a			The BEDES Terminal Reheat option does not expressly indicate constant volume, but it seems to be implied because VAV is listed separately.
		VAV terminal box fan powered	n/a	1	VAV terminal box fan powered	n/a			
		no reheat VAV terminal box fan powered	n/a	ŧ	VAV terminal box fan powered	n/a			
		with reheat		-	-				
		VAV terminal box not fan	n/a		VAV terminal box not fan	n/a			
		VAV terminal box not fan	n/a	t	VAV terminal box not fan	n/a			
		powered with reheat		-	powered				
		Automatically controlled	n/a		Other	n/a			
		Manually controlled register	n/a	+	Other	n/a			
		Uncontrolled register	n/a	1	Other	n/a			
		Other	n/a	+	Other	n/a			
0	CoolingSourceID	(Not null)	n/a	t	UNION	100			
1	Terminal Unit	CAV terminal box with reheat	n/a	Heating Delivery Type	CAV terminal box with reheat	n/a			
		VAV terminal box fan powered no reheat	n/a		VAV terminal box fan powered no reheat	n/a			
		VAV terminal box fan powered with reheat	n/a	Ť	VAV terminal box fan powered with reheat	n/a			
		VAV terminal box not fan	n/a	T	VAV terminal box not fan	n/a			
		powered no reheat	n/a	ł	powered no reheat	n/a			
		powered with reheat	ny a		powered with reheat	··v a			
		Automatically controlled	n/a	T	Other	n/a			
		register	n/a	ł	Other	0/2			
		Uncontrolled register	n/a	t	Other	n/a			
		Other	n/a	1	Other	n/a			
ŀ	lastic CourselD	Unknown	n/a	+	Unknown	n/a			
1	neaungsourceiD Convection Type	(NOL NUII) Perimeter baseboard	nya n/a	Cooling Delivery Type	Other	n/a			
ľ		Chilled beam	n/a		Chilled beam	n/a			1
		Other	n/a	I	Other	n/a			
H	Caslina Cassas 10	Unknown	n/a	ł	Unknown	n/a			4
ľ	Convection Type	(Not Null) Perimeter baseboard	n/a	Heating Delivery Tyne	Perimeter baseboard	n/a			
Ľ		Chilled beam	n/a		Other	n/a	1		1
		Other	n/a	Į	Other	n/a			
H	HeatingSourceID	Unknown (Not null)	n/a	ł	Unknown	n/a			4
H	Radiant Type	Radiator	n/a	Cooling Delivery Type	Other	n/a			
ſ		Radiant floor or ceiling	n/a	1 - /	Radiant ceiling	n/a			
		Other	n/a	4	Other	n/a			4
ŀ	CoolingSourceID	Unknown (Not pull)	n/a	ł	Unknown	n/a			4
i i	Radiant Type	[value]	n/a	Heating Delivery Type	=[value]	n/a			
	HeatingSourceID	(Not null)	n/a						1
4	Setpoint Temperature Cooling	[value]	°F	Setpoint Type	Room temperature	n/a			
				Setpoint Setting Condition	Normal	n/a			
				Setpoint Low	=[value]	°F			
L				Setpoint High	=[value]	°F			
4	Setup Temperature Cooling	[value]	°F	Setpoint Type	Room temperature	n/a			
		1	1	Setpoint Setting Condition	кeset	n/a	1	1	1

BuildinaSync			BuildingSync						
Table Name	BuildingSync Term	BuildingSync Value	Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
				HVAC Systems Controlled	Cooling	n/a °E			
				Setpoint Low	=[value]	°F			
	Cooling Supply Air	[value]	°F	Setpoint Type	Supply air temperature	n/a			
	Temperature			Setpoint Setting Condition	Normal	n/a			
				HVAC Systems Controlled	Cooling	n/a			
				Setpoint Low	=[value]	°F			
	Cooling Supply Air	[value]	n/a	Setpoint High	=[value] Supply air temperature	-F			
	Temperature Control Type	[wide]	190	HVAC Systems Controlled	Cooling	n/a			
				Control Strategy	=[value]	n/a			
	Outside Air Reset Maximum	[value]	۴F	Setpoint Type	Supply air temperature	n/a			
	Cooling Supply Temperature			Setpoint Setting Condition	Reset	n/a			
				HVAC Systems Controlled	Cooling	n/a			
	Outside Air Reset Minimum	fushual	°c	Setpoint High	=[value]	°F			
	Cooling Supply Temperature	[value]	r	Setpoint Type	Reset	n/a			
				HVAC Systems Controlled	Cooling	n/a			
				Setpoint Low	=[value]	°F			
	Outside Air Temperature	[value]	°F	Setpoint Type	Outside air temperature limit	n/a			
	Upper Limit Cooling Reset			Setpoint Setting Condition	Reset	n/a			
	Control			HVAC Systems Controlled	Cooling	n/a °E			
	Outside Air Temperature	[value]	°F	Setpoint Type	Outside air temperature limit	n/a			
	Lower Limit Cooling Reset			Setpoint Setting Condition	Reset	n/a			
	Control			HVAC Systems Controlled	Cooling	n/a			
				Setpoint Low	=[value]	°F			
	Rated Cooling Sensible Heat	[value]	n/a	Efficiency Qualifier	Rated sensible heat ratio	n/a			-
Other HVAC	Natio Other HVAC Type	Humidifier	n/a	Other HVAC Type	=[value] Humidifier	n/a			
ould hove	outer trade type	Dehumidifier	n/a	outer time type	Dehumidifier	n/a			
		AirCleaner	n/a		Air cleaner	n/a			
		MechanicalVentilation	n/a]	Mechanical ventilation	n/a			
		Spot exhaust	n/a		(No corresponding field)	n/a			Spot exhaust is not a general option in BEDES. Other fields are
		NaturalVentilation	n/2	-	Other	0/0			required
		Other	n/a	-	Other	n/a			
		Unknown	n/a	1	Unknown	n/a			
	Ventilation Rate	[value]	cfm	Ventilation Rate	=[value]	cfm			
	Required Ventilation Rate	[value]	cfm	Required Ventilation Rate	=[value]	cfm			
	Ventilation Type	Exhaust only	n/a	Ventilation Type	Exhaust only	n/a			
		Dedicated outdoor air system	n/a	-	Other	n/a			
		Heat recovery ventilator	n/a	1	Heat recovery ventilator	n/a			
		Energy recovery ventilator	n/a]	Energy recovery ventilator	n/a			
		Other	n/a		Other	n/a			
	Vastilation Control Mathed	Unknown	n/a	Constant Characteria	Unknown	n/a			
	ventilation control method	CO2 sensors	nya	Control Strategy	Cerban disuida	nya - (-			
				Setnoint Type	Outside air flow rate	n/a			
		Fixed	n/a	Control Strategy	Fixed	n/a			
				Setpoint Type	Outside air flow rate	n/a			
		Occupancy Sensors	n/a	Control Strategy	Demand control ventilation	n/a			
				Sensor Type Setnoint Type	Occupancy Outside air flow rate	n/a			
		Scheduled	n/a	Control Strategy	Scheduled	n/a			
				Setpoint Type	Outside air flow rate	n/a			
		Other	n/a	Control Strategy	Other	n/a			
				Setpoint Type	Outside air flow rate	n/a			
		Unknown	n/a	Control Strategy	Unknown Outside air flow rate	n/a			
	Ventilation Zone Control	[value]	n/a	Setpoint Type	Outside air flow rate	n/a			
				Control Strategy	=[value]	n/a			
	Demand Control Ventilation	True	n/a	Setpoint Type	Demand control ventilation	n/a			
		False	n/a	(No corresponding field)		1.			
	Exhaust Location	Bathroom Kitchen bood	n/a	Ventilation Type	Exhaust only	n/a		1	
1		Laboratory hood	n/a	Other HVAC Type	Exhaust hood laboratory	n/a			
		Other	n/a	Ventilation Type	Exhaust only	n/a			
		Unknown	n/a	Ventilation Type	Exhaust only	n/a			
	Natural Ventilation Method	[value]	n/a	Natural Ventilation Method	=[value]	n/a			
	Natural Ventilation Rate	[value]	n/a	Natural Ventilation Rate	=[value]	n/a			
	Humidification Type	[value]	n/a	Humidification Type	=[value]	n/a			
	number control minimum	[wine]	1,4	Setpoint Type	-fvalue]	44 14			
	Humidity Control Maximum	[value]	n/a	Setpoint Type	Humidity	n/a	l		
				Setpoint High	=[value]	%			
	Dehumidification Type	[value]	n/a	Dehumidification Type	=[value]	n/a			
	Makeup Air Source ID	[value]	n/a	(No corresponding field)		1.			Hierarchical element not used in BEDES
Lighting	System Performance Ratio	[value]	n/a	System Performance Ratio	=[value]	n/a			
LIGHTING	camp type	LinearFluorescent	n/a	camp Type	Fluorescent	n/a			
		CompactFluorescent	n/a	1	Compact Fluorescent	n/a			
1		Halogen	n/a	1	Halogen	n/a			
		HighIntensityDischarge	n/a	4	High intensity discharge	n/a			
1		SolidStateLighing	n/a	+	Solid State Lighting	n/a			
		Neon	n/a	+	Neon	n/a			
		Plasma	n/a	1	Plasma	n/a			
1		Photoluminescent	n/a]	Photoluminescent	n/a			
1		SelfLuminous	n/a	1	Self-Luminous	n/a			
1		OtherCombination	n/a	4	Other	n/a			
	Lamo Label	Unknown	n/a	Lamn Label	-fvalue]	n/a		1	
1	Ballast Type	Electromagnetic	n/a	Ballast Type	Electromagnetic	n/a			
		Electronic	n/a	1	Electronic	n/a	<u> </u>		
1	1	Integrated	n/a	1	Integrated	n/a			

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
		F-Can	n/a		F-Can	n/a			
		Other	n/a		Other	n/a			
	Transformer Needed	True	n/a	Transformer Needs	Transformer Needed	n/a			
		False	n/a		No Transformer Needed	n/a			
	Fluorescent Start Type	[value]	n/a	Ballast Type	=[value]	n/a			
	Lamp Length	2 ft	n/a	Length	2	ft			
		4 ft	n/a		4	ft]
		Other	n/a		(No corresponding field)				
		Unknown	n/a	Linit of Measure	(No corresponding field)	n/a			-
				Lighting Component	Lamp	n/a			
	Input Voltage	120	n/a	Input Voltage	120	v			BEDES uses a decimal value for voltage. More complex voltages
		208	n/a		208	v			cannot be captured, but it allows more uncommon values.
		240	n/a n/a		240	V			-
		347	n/a		347	v			
		480	n/a		480	v			-
		120/277 (dual) 120-277 (universal)	n/a n/a		120	V			-
		347-480 (high voltage)	n/a		347	v			
		Other	n/a		(No corresponding field)				
	Installation Type	[value]	n/a	Installation Type	=[value]	n/a			
	Second Direction	Indirect	n/a	Second Direction	Indirect	n/a			
		Direct-Indirect	n/a	I	Direct-Indirect	n/a			
		Spotlight	n/a	ł	Spotlight	n/a			
		Omnidirectional	n/a	ł	Omnidirectional	n/a			
		Other	n/a	t	Other	n/a			
		Unknown	n/a		Unknown	n/a			
	Lighting Control Type			Control Technology	Sensor	n/a			
		Vacancy Sensors	n/a	sensor Type	Vacancy	n/a			
		Other	n/a	I	Other	n/a			
		Unknown	n/a		Unknown	n/a			
	Lighting Control Turno Timor	None	n/a	Control Tochnology	None	n/a			
	Lighting Control Type Time	[value]	iya	Control Strategy	Davlight dimming	n/a			
	Daylighting			Setpoint Type	Daylight illuminance	n/a			
		Continuous	n/a	Control Strategy	Continuous dimming	n/a			
		Continuous Plus Off Stenned Dimming	n/a n/a		Continuous dimming plus off Stenned dimming	n/a n/a			
		Stepped Switching	n/a		Other	n/a			
		Other	n/a		Other	n/a			
		None	n/a		None	n/a			
	Lighting Control Type Manual	Manual On/Off	n/a	Control Technology	Manual	n/a			
		Manual Dimming	n/a	Control Technology	Manual dimming	n/a			
		Bi-level Control	n/a	Control Strategy	Bilevel	n/a			
		Tri-level Control	n/a	Control Technology Control Strategy	Manual Multi level	n/a n/a			
		in lever control		Control Technology	Manual	n/a			
		Other	n/a	Control Technology	Manual	n/a			
		Unknown	n/a n/a	Control Technology Control Technology	Manual Manual	n/a n/a			
	Dimming Capability	[value]	n/a	Control Strategy	Continuous dimming	n/a			There is no generic dimming term in BEDES, but it's assumed that
	Minimum Dimming Light	[value]	n/a	Setpoint Type	Output fraction	n/a			continuous dimming is more likely than stepped.
	Fraction Minimum Dimming Power	fueluel	n/a	Setnoint Tune	Power fraction	n/a			
	Fraction	[mac]		Serbour Libe					
	Daylighting Illuminance	[value]	lux	Setpoint Type	Daylight illuminance				
	Setpoint		1	Setpoint Low	=[value]	lux			
	Davlighting Control Steps	[value]	n/a	Section to High (No corresponding field)	=[value]	IUX			
	Percent Premises Served	[value]	%	Percentage Of Total Floor Area Served	=[value]	%			According to the BEDES definition, this term can be applied to a specific zone, and is therefore not limited to the total building floor area.
	Installed Power	[value]	kW	Load Category	Lighting Connected load	n/a			
				Capacity Quanner	=[value]	kW			
	Lamp Power	[value]	W/lamp	Consumption Rate	=[value]	W/lamp			
	Number of Lamon and	fundual	0/0	Consumption Rate Type	Watts per lamp	n/a			
	Number of Lamps per Luminaire	[value]	n/a	System	=[value]	riy d			
				Lighting Component	Lamp	n/a			
	Number of Lennes and R. W. S.	[umbur]	- 1-	Lighting Component	Luminaire	n/a			
	wumber of Lamps per Ballast	[vaidē]	n/a	Quantity of Modules per System	=[valU8]	n/a			
			1	Lighting Component	Lamp	n/a			
				Lighting Component	Ballast	n/a			
	Number of Ballasts per Luminaire	[value]	n/a	Quantity of Modules per System	=[value]	n/a			
				Lighting Component	Ballast Luminaire	n/a n/a			
	Number of Luminaires	[value]	n/a	Quantity	=[value]	n/a			
				Lighting Component	Luminaire	n/a			
	Outside Lighting	True	n/a	Location	Exterior	n/a			
		raisd	ny d	Lighting Component	Fixture	n/a			
	Lighting Efficacy	[value]	lm/W	Efficiency Qualifier	Efficacy	n/a			
	Deflected Trees	[umbur]	- 1-	Efficiency Value	=[value]	lm/W			
	wenector Type Work Plane Height	[value]	nya ft	Renector Type Lighting Characteristics	=[valUE] Work plane height	n/a			
		[-	Height	=[value]	ft			
		•	•						

BuildingSync			BuildingSync	25250 5					
Table Name	BuildingSync Term	BuildingSync Value	Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
	Luminaire Height	[value]	ft	Height	=[value]	ft			
				Unit of Measure	ft	n/a			
	Fixture Spacing	[value]	ft	Lighting Component Spacing	Luminaire =[value]	n/a ft			
		()		Unit of Measure	ft	n/a			
	Rated Lamo Life	fusivel	br	Lighting Component	Fixture	n/a br			
	Rated Lamp Life	[value]	rir	Unit of Measure	hour	n/a			
				Lighting Component	Lamp	n/a			
estic Hot ar	Domestic Hot Water Type	[value]	n/a n/a	Domestic Hot Water Type Tank Heating Type	=[value]	n/a			
	Direct Tank Heating Source	[value]	n/a	(No corresponding field)	-[*0.00]	100			Hierarchical element not used in BEDES
	Indirect Tank Heating Source	[value]	n/a	Indirect Tank Heating Source	=[value]	n/a			
	Instantaneous Water Heating Source	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Hot Water Distribution Type	Looped	n/a	Tank Heating Type	Looped	n/a			
		Distributed	n/a		Distributed	n/a			
		Point-of-use Other	n/a n/a	+	Distributed	n/a n/a			
		Unknown	n/a		Unknown	n/a			
	Daily Hot Water Draw	[value]	gal	Consumption Rate Type	Daily Draw	n/a			
	Tank Volume	[value]	gal	Consumption Rate Domestic Hot Water Type	=[value] Storage tank	gal n/a			
		()	0	Capacity Qualifier	Volume	n/a			
				Capacity	=[value]	gal			
	Tank Height	[value]	ft	Unit of Measure Domestic Hot Water Type	gallons Storage tank	n/a n/a			
			L.	Height	=[value]	ft			1
	Tauli Dadarata:	fundaria	4	Unit of Measure	ft ft	n/a			
	Tank Perimeter	[value]	π	Domestic Hot Water Type Perimeter	storage tank =[value]	n/a ft			
			L	Unit of Measure	ft	n/a			
	Water Heater Efficiency Type	Energy Factor	n/a	Efficiency Qualifier	Energy Factor	n/a			
	Water Heater Efficiency	Thermal Efficiency	n/a	Efficiency Value	Thermal -[value]	n/a n/a			
	Recovery Efficiency	[value]	%	Efficiency Value	Recovery	n/a			
	necovery endency	[wide]		Efficiency Value	=[value]	n/a			
				Domestic Hot Water Type	Storage tank	n/a			
	Storage Tank Insulation R-	[value]	hr-ft2-F/Btu	R-Value	=[value]	hr-ft2-°F/Btu			
	Storage Tank Insulation	[value]	in	Domestic Hot Water Type Thickness	Storage tank =[value]	n/a inches			
	Thickness	()		Unit of Measure	inches	n/a			
				Domestic Hot Water Type	Storage tank	n/a			
	Parasitic Fuel Consumption	[value]	Btu/h	Consumption Rate Type	Parasitic Fuel	n/a			
	Rated Heat Pump Sensible Heat	[value]	n/a	Consumption Rate Efficiency Qualifier	=[value] Rated sensible heat ratio	Btu/hr n/a			
	Ratio	()		Efficiency Value	=[value]	n/a			
				Indirect Tank Heating Source	Heat pump	n/a			
	HPWH Minimum Air Temperature	[value]	°F	Setpoint Type	Dry bulb control point	n/a			
	remperature			Setpoint Low Indirect Tank Heating Source	[value] Heat.pump	r⊧ n/a			
	Off-Cycle Heat Loss Coefficient	[value]	Btu/hr/ft2/°F	Efficiency Qualifier	Off-cycle heat loss coefficient	n/a			
				Efficiency Value	=[value]	Btu/h-ft2-°F			
	Hot Water Setpoint	[value]	°F	Setpoint Type	Supply water temperature	n/a			
	Temperature			Setpoint Low	=[value]	°F			
	a. 1. 1.1			Setpoint High	=[value]	°F			
	Recirculation	[present]	n/a n/a	(No corresponding field)	Recirculation	n/a			False in BuildingSync indicates the absence of a Recirculation
		((····					control strategy in BEDES.
	Recirculation Loop Count	[value]	n/a	Recirculation Loop Count	=[value]	n/a		1	
	Neul culation now Kate	[vaide]	Bal/11	Setpoint Type	=[value]	ft3/min	=[value]*0.002228	L	
				Setpoint High	=[value]	ft3/min	=[value]*0.002228		
	Recirculation Control Type			Control Strategy Control Strategy	Recirculation	n/a n/a			
		Continuous	n/a	Control Technology	Always on	n/a	<u> </u>		
		Temperature	n/a	Control Technology	Thermostat	n/a			
		Timer Demand	n/a n/a	Control Technology	Timer Manual	n/a n/a			
		Other	n/a	Control Technology	Other	n/a			
		Unknown	n/a	Control Technology	Unknown	n/a			
	Recirculation Energy Loss Rate	[value]	MMBtu/hr	Efficiency Qualifier	Recirculation energy loss rate	n/a			
				Control Strategy	=[value] Recirculation	n/a			
	Solar Thermal System Type	[value]	n/a	(No corresponding field)					
	Solar Thermal System Collector	[value]	ft2	Area	=[value]	ft2			
	recd			Litergy Generation Technology	solar thermal system collector	u/d			
	Solar Thermal System Collector	Air direct	n/a	Thermal Loop Configuration	Direct	n/a			
	Loop Type	Air indirect	n/a	ł	Indirect	n/a		1	
		Liquid indirect	n/a	t	Indirect	n/a			
		Passive thermosyphon	n/a	Į	Passive thermosyphon	n/a			
		Other	n/a	ł	Other	n/a n/a			
	Solar Thermal System Collector	[value]	n/a	Solar Thermal System Collector	=[value]	n/a		·	
	Type		l	Туре					
	Solar Thermal System Collector Azimuth	[value]	degrees	Azimuth	=[value]	degrees			
	ramal			criergy Generation Technology	Solar mermal system collector	nya			
	Solar Thermal System Collector	[value]	degrees	Tilt Angle	=[value]	degrees			
	Tilt			Energy Generation Technology	Solar thermal system collector	n/a			
	Solar Thermal System Storage	[value]	gal	Capacity Qualifier	Volume	n/a			
	storage	I	1~ · ·		1		1		L

Duilding Come			Duilding						
BuildingSync	Building Suno Torm	Building Suna Valua	BuildingSync	REDES Torm	Volue Monning	REDES Unit	Unit Conversion	Other Conversion Operations	Notos
Table Name	Volume	BuildingSync value	Units	Canacity	-fvalue]	gal gal	Unit Conversion	Other Conversion Operations	Notes
				Unit of Measure	gallons	n/a			
				Energy Generation Technology	Solar thermal system collector	n/a			
				(h) h (h (h)					
Cooking	Heating Plant ID Number of Meak	[value]	n/a n/a	(No corresponding field) Operation Event	Meal served	0/2			Hierarchical element not used in BEDES
COOKING	Number of Media	(value)	190	Operation Events per Year	=[value]	n/a			
	Cooking Energy per Meal	[value]	Btu	Load Category	Cooking	n/a		Divide [value] by associated Operation Events	
				Resource Value	=[value]	Btu		per Year.	
				Unit of Measure	Btu	n/a			
				Interval Frequency	Annual	n/a			
	Type of Cooking Equipment	[value]	n/a	Cooking Appliance Type	=[value]	n/a			
	Daily Water Use	[value]	gai/day	Load Category Water Resource	COOKing Potable water	n/a			
				Resource Value	=[value]	gallons/day			
				Unit of Measure	gallons	n/a			
				Interval Frequency	Daily	n/a			
efrigeration	Refrigeration System Category	[value]	n/a	(No corresponding field)					It does not appear that BEDES has a categorization for central refrigeration curtame
	Refrigeration Unit Type	Refrigerator	n/a	Refrigeration Type	Refrigerator	n/a			Terrigeration systems.
		Freezer	n/a		Freezer	n/a			1
		Combination	n/a	I	Combination	n/a			
		Other	n/a		Other	n/a			
	er.	Unknown	n/a	e 1. e 10	Unknown	n/a			
	Size	[value]	π3	Capacity Qualifier	Size	n/a #2			-
				Unit of Measure	ft3	n/a			1
	Refrigeration Energy	[value]	w	Load Category	Refrigeration	n/a			
				Capacity Qualifier	Connected load	n/a			4
				Capacity	=[value]	w			4
	Door Configuration	Side-by-side	n/a	Unit Of Measure	w Side-by-side	n/a		1	
	Soor comguration	Top and bottom	n/a	comparation	Top-and-bottom	n/a			
		Other	n/a	İ	Other	n/a			
		Unknown	n/a		Unknown	n/a			
	Refrigerated Case Doors	True	n/a	Cabinet Configuration	Closed case	n/a			
		False	n/a		Open case	n/a			
	Case Door Orientation	[value]	n/a	Case Door Orientation	=[value] Refrigerant return line diameter	n/a			
	case netari cine biameter			nemperation officiations	nemgerant retain inte alameter	1,7 0			
				Dimension	=[value]	in.			
				Unit of Measure	inches	n/a			
	Defrosting Type	[value]	n/a	Defrosting Type	=[value]	n/a			
	Lamp Power	[value]	w	Load Category	Refrigeration	n/a			
				Consumption Rate Type	watts per lamp	n/a			
	Anti-Sweat Heaters	[present]	n/a	Refrigeration Components	Anti sweat heater equinment	n/a			
	Anti-Sweat Heater Power	[value]	w	Refrigeration Components	Anti sweat heater equipment	n/a			
				Capacity Qualifier	Connected load	n/a			
				Capacity	=[value]	w			
	Anti-Sweat Heater Controls	True	n/a	Control Technology	Anti sweat heaters	n/a			-
		False	n/a	(No corresponding field)					
	Suction vapor Temperature	[value]	- 1-	Setpoint Type	Suction vapor temperature	n/a			
	Condensing Temperature	[value]	°F	Setpoint Type	Condensing temperature	n/a			
		()		Setpoint	=[value]	°F			
	Split Condenser	True	n/a	Refrigeration Components	Split condenser	n/a			
		False	n/a	(No corresponding field)					
	Design Ambient Temperature	[value]	°F	Setpoint Type	Design ambient temperature	n/a			
				Setpoint	=[value]	°F			
	Design Temperature Difference	[value]		Setpoint Type	Jesign temperature difference	°F		1	1
	Refrigeration Compressor Tupe	[value]	n/a	Refrigeration Compressor Type	=[value]	n/a			
					()				
	Compressor Unloader	True	n/a	Refrigeration Components	Compressor unloader	n/a			
		False	n/a	(No corresponding field)					
	compressor Unloader Stages	[vaiue]	n/a	Retrigeration Components	Compressor unloader	n/a			
	Docuporheat Value	True	n/2	Number of Cycles	=[value]	n/a			
	pesupernear valve	False	n/a	(No corresponding field)	pesuperneater valve	n/d			
	Crankcase Heater	True	n/a	Refrigeration Components	Crankcase heater	n/a			1
		False	n/a	(No corresponding field)					
	Total Heat Rejection	[value]	MMBtu/hr	Load Category	Refrigeration	n/a			
				Capacity Qualifier	Waste heat	n/a			
	Net Refrigeration Canacity	fvaluel	MMBtu/br	Capacity Refrigeration Dimension	=[valU8] Net refrigeration canacity	MMBtu/hr			
		[Capacity	=[value]	MMBtu/hr			
	Number of Refrigerant Return	[value]	n/a	Refrigeration Dimensions	Number of refrigerant return	n/a			
	Lines				lines	<u> </u>			
	Francisco Dec	T	- /-	Quantity	=[value]	n/a			
	Evaporator Pressure Regulators	True	nya	Reingeration Components	Evaporator pressure regulators	rya			
	incontations	False	n/a	(No corresponding field)				1	
	Refrigerant Subcooler	True	n/a	Refrigeration Components	Refrigerant subcooler	n/a		1	
		False	n/a	(No corresponding field)					
hwasher	Dishwasher Machine Type	[value]	n/a	Dishwasher Machine Type	=[value]	n/a			
	Dishwasher Configuration	[value]	n/a	Dishwasher Configuration	=[value]	n/a			
	Dishwasher Classification	[value]	n/a	Load Category	Dishwasher	n/a			
	Diskunskastas 1. S. ott. 1	[united]	la a da ford	Sector Classification	=[value]	n/a			
	uisriwasher Loads Per Week	[vaiue]	IUADS/WK	Load Category	–fvalue]	n/a loads/w/k		1	1
				Unit of Measure	loads/week	n/a			
	Dishwasher Energy Factor	[value]	cycles/kWh	Load Category	Dishwasher	n/a			
				Efficiency Qualifier	Energy Factor	n/a			
				Efficiency Value	=[value]	cycles/kWh			
				Unit Of Measure	cycles/kWh	n/a			
	Disnwasher Hot Water Use	[value]	gal/cycle	Load Category	Disnwasher	n/a	l		Assumes the dishwasher uses only hot water. BEDES does not have

BuildingSync			BuildingSync							
Table Name	BuildingSync Term	BuildingSync Value	Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes	
				Consumption Rate Type	Water cycle draw	n/a			a separate hot water consumption term.	
				Consumption Rate	=[value]	gal/cycle				
Laundry	Washer Dryer Type	[value]	n/a	Laundry Appliance Type	=[value]	n/a				
	Laundry Type	Washer	n/a	Laundry Appliance Type	Clothes washer	n/a				
		Combination	n/a	t	(No corresponding field)	nya			BEDES does not have a general Combination category, but the	
		combination	1,70		(no corresponding ricid)				details are mapped through the BuidlingSync Washer Dryer Type	
									term.	
		Other	n/a	1	Other	n/a				
		Unknown	n/a		Unknown	n/a				
	Quantity of Laundry	[value]	lb/yr	Quantity	=[value]	lb/yr				
				Load Category	Laundry	n/a				
				Interval Frequency	Annual	n/a				
	Laundry Equipment Usage	[value]	loads/wk	Operation Event	Laundry loads	n/a				
				Operation Events per Year	=[value]	loads/yr	=integer([value]*52.143)			
	Clothes Washer Classification	[value]	n/a	Load Category	Laundry	n/a				
				Sector Classification	=[value]	n/a				
	Clothes Washer Loader Type	[value]	n/a	Laundry Appliance Type	Clothes washer	n/a				
				Laundry Configuration	=[value]	n/a				
	Clothes Washer Modified	[value]	ft3/kWh/cycle	Clothes Washer Modified	=[value]	ft3/kWh/cycle				
	Energy Factor	[uplus]	apl/ordo/ft2	Energy Factor	Clother worker	0/0				
	ciotiles wasilei water ractor	[value]	gal/ cycle/105	Edulary Appliance Type	Clothes washer	iya - (-				
				Efficiency Qualifier	water Factor	nya				
	Clother Washer Canacity	[uplue]	# 2	Efficiency Value	=[value]	gal/cycle/π3				
	ciones washer capacity	[value]	1.5	Canacity Appliance Type	Volume	n/a				
				Capacity	=[value]	ft3				
				Unit of Measure	ft3	n/a				
	Dryer Classification	[value]	n/a	Laundry Appliance Type	Clothes dryer	n/a				
				Sector Classification	=[value]	n/a				
	Dryer Electric Energy Use Per	[value]	kWh/load	Laundry Appliance Type	Clothes dryer	n/a				
	Load			Consumption Rate Type	Energy cycle draw	n/a				
				Consumption Rate	=[value]	kWh/load				
	Dever Gar Energy Lice Per Load	[uplue]	Rtu/load	Unit of Measure	KVVD Clother druer	n/a				
	biyer das chergy ose rei coau	[value]	btu) ioau	Caultury Appliance Type	Clothes dryer	iya - (-				
				Consumption Rate Type	Energy cycle draw	n/a				
				consumption rate	=[value]	btu/ioau				
Rumo	Rump Efficiency	[uplue]	e/	Unit of Measure Brocord Load Tuno	Blump	n/a				
Fullip	Fullip Endency	[value]	70	Efficiency Qualifier	Efficiency	n/a				
				Efficiency Value	=[value]	n/a				
	Pump Maximum Flow Rate	[value]	gpm	Process Load Type	Pump	n/a			These aren't really setpoints, they are limitations of the pump. But	
				Setpoint Type	Flow Rate	n/a			this appears to be the only way to map the data.	
				Setpoint High	=[value]	ft3/min	=[value]*0.133681			
	Pump Minimum Flow Rate [value]	[value]	gpm	Process Load Type	Pump	n/a			These aren't really setpoints, they are limitations of the pump. But	
		()		Setpoint Type	Flow Rate	n/a	[]]#0.122001		this appears to be the only way to map the data.	
	Pump Installed Flow Rate	fvaluel	anm	Process Load Type	Pump	n/a	=[value] 0.133681			
	rump instance riow nate	ow Rate [value]	value) gpm	6P111	Setpoint Type	Flow Rate	n/a			
				Setpoint Setting Condition	Normal	n/a				
				Setpoint	=[value]	ft3/min	=[value]*0.133681			
	Pump Power Demand	[value]	kW	Process Load Type	Pump	n/a				
				Consumption Rate Type	Rated power	n/a				
				Unit of Measure	kW	n/a				
	Pump Control Type			Process Load Type	Pump	n/a				
		Constant Volume	n/a	Control Strategy	Average flow	n/a				
		Variable Volume	n/a	1	Variable flow	n/a				
		VFD	n/a	1	Variable flow	n/a				
		Multi-speed	n/a	+	Multi level	n/a				
		Uther	n/a	-	Uther	n/a				
	Pump Operation	[value]	n/a	Process Load Type	Pump	n/a				
				Operational Mode	=[value]	n/a				
	Pumping Configuration	[value]	n/a	Process Load Type	Pump	n/a				
			1.	Priority	=[value]	n/a				
Free .	Pump Application	[value]	n/a	Pump Application	=[value]	n/a		l		
rafi	ran chiclency	[value]	76	Efficiency Qualitier	ran	ny a				
	Fan Size	[value]	cfm	Size	=[value]	ft3/min				
	Installed Flow Rate	[value]	cfm	Installed Flow Rate	=[value]	ft3/min	İ		1	
	Minimum Flow Rate	[value]	cfm	Minimum Flow Rate	=[value]	ft3/min				
	Maximum Fan Power	[value]	w	Maximum Fan Power	=[value]	w				
	Fan Power Minimum Ratio	[value]	n/a	Fan Power Minimum Ratio	=[value]	n/a				
	ran Type Fan Application	[value]	n/a	ran Type Fan Application	=[value]	n/a			1	
	Flow Control Type	[value]	n/a	Flow Control Type	=[value]	n/a				
	Fan Placement	[value]	n/a	Fan Placement	=[value]	n/a	1			
	Motor Location Relative to Air	True	n/a	Motor Location Relative to Air	Within air stream	n/a				
	Stream	False	n/a	Stream	Not within air stream	n/a				
	Design Static Pressure	[value]	Ра	Design Static Pressure	=[value]	Pa				
	Number of Discrete Fan Speeds	[value]	n/a	HVAC Systems Controlled	Cooling	n/a				
	- Cooling		1	Number of Discrete Fan Speeds	=[value]	n/a	1			
	Number of Discrete Fan Socode	[value]	n/a	HVAC Systems Controlled	Heating	0/2				
	- Heating	[renoc]		Number of Discrete Fac Canada	-fueluel					
			1	number of Discrete ran Speeds	-[value]	iyd	1			
	Belt Type	[value]	n/a	Belt Type	=[value]	n/a				
	Linked System ID	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES	
Motor	Motor RPM	[value]	rpm	Motor Characteristic	RPM	n/a				
				Motor Characteristic Value	=[value]	rpm				
	Motor Brake HP	[vaiue]	np	Motor Characteristic	Brake horsepower	n/a				
	Motor HP	[value]	hn	Motor Characteristic Value	=[value] Horsenower	np n/a				
		(d-)		Motor Characteristic Value	=[value]	hp				

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
	Motor Efficiency	[value]	%	Efficiency Qualifier	Motor	n/a			
	Drive Efficiency	[value]	%	Efficiency Value Efficiency Qualifier	=[value] Drive	% n/a			
		(~	Efficiency Value	=[value]	%			
	Full Load Amps	[value]	amps	Motor Characteristic	Full load amps	n/a			
	Motor Pole Count	[value]	n/a	Motor Characteristic	Pole count	n/a			
				Motor Characteristic Value	=[value]	n/a		Convert integer to decimal	
	Motor Enclosure Type Motor Application	[value]	n/a n/a	(No corresponding field)	=[value]	n/a			Hierarchical element not used in BEDES
Heat Recovery	Heat Recovery Efficiency	[value]	%	Efficiency Qualifier	Heat recovery	n/a			
	France Descurrent Ffilm	fundual	~	Efficiency Value	=[value]	%			
	Energy Recovery Enciency	[value]	76	Efficiency Value	=[value]	%			
	Heat Recovery Type	[value]	n/a	Heat Recovery Type	=[value]	n/a			
	System ID Receiving Heat System ID Providing Heat	[value]	n/a n/a	(No corresponding field) (No corresponding field)					Hierarchical element not used in BEDES Hierarchical element not used in BEDES
Wall	Exterior Wall Construction	[value]	n/a	Opaque Surface	Wall	n/a			
	Potenies Miell Pielek	fundual	- /-	Construction Method	=[value]	n/a			
	Exterior wall Finish	[value]	nya	Location	Exterior	n/a			
				Finish	=[value]	n/a			
	Exterior Wall Color	[value]	n/a	Opaque Surface	Wall Exterior	n/a n/a			
				Color	=[value]	n/a			
	Wall Insulation Application	[value]	n/a	Opaque Surface	Wall	n/a			
	Wall Insulation Material	[value]	n/a	Opaque Surface	=[value] Wall	n/a n/a			
				Material Qualifier	Insulation	n/a			
	Wall Framing Material	[uplue]	n/2	Material Opague Surface	=[value]	n/a			
	wali riannig wateriai	[value]	iya	Material Qualifier	Framing	n/a			
				Material	=[value]	n/a			
	Wall Insulation Thickness	[value]	in.	Opaque Surface Material Qualifier	Wall	n/a			
				Thickness	=[value]	ft	=[value]/12		
				Unit of Measure	inches	n/a			
	Wall Insulation Continuity	[value]	n/a	Opaque Surface	=[value]	n/a n/a			
	Wall Insulation Condition	[value]	n/a	Opaque Surface	Wall	n/a			
				Material Qualifier	Insulation	n/a			
	Wall Insulation Location	[value]	n/a	Opaque Surface	Wall	n/a			
			-	Material Qualifier	Insulation	n/a			
	Wall Framing Spacing	fushed	in	Location Oncours Surface	=[value]	n/a			
	waii Framing Spacing [Value]	[value]	in.	Material Qualifier	Framing	n/a			
	Wall Framing Denth [value]			Spacing	=[value]	ft	=[value]/12		
	Wall Framing Depth	[value]	in.	Opaque Surface Material Qualifier	Wall	n/a			
				Depth	=[value]	ft	=[value]/12		
	Wall Framing Factor	[value]	%	Opaque Surface	Wall	n/a			
	CMU Fill	[value]	n/a	Framing Factor (No corresponding field)	=[value]	%			
	Wall Exterior Solar	[value]	%	Opaque Surface	Wall	n/a			
	Absorptance			Location	Exterior	n/a			
	Wall Exterior Thermal	[value]	%	Solar Absorptance Onaque Surface	=[value] Wall	% n/a			
	Absorptance			Location	Exterior	n/a			
				Thermal Absorptance	=[value]	%			
	Interior Visible Absorptance	[value]	%	Opaque Surface	Wall	n/a n/a			
				Visible Absorptance	=[value]	%			
	Tightness	[value]	n/a	Air Infiltration Description	=[value]	n/a			
	Locations of Exterior Water Intrusion Damage	[value]	n/a	(No corresponding field)					
	Locations of Interior Water	[value]	n/a	(No corresponding field)					
	Intrusion Damage	fundual	h- 63 5/04-	One and functions	147-11	- (-			
	wall K value	[value]	nr-iuz-ry Blu	R Value	=[value]	hr-ft2-F/Btu			
	Wall U Factor	[value]	Btu/hr-ft2-°F	Opaque Surface	Wall	n/a			
	Wall Inculation R Value	[uplue]	br #3 E/Rtu	U Factor	=[value]	Btu/hr·ft2·°F			
	wall insulation is value	[value]	111-112-17 010	Material Qualifier	Insulation	n/a			
				R-Value	=[value]	hr-ft2-F/Btu			
	Exterior Roughness	[value]	n/a	Opaque Surface	Wall	n/a			
				Surface Roughness	=[value]	n/a			
	Air Infiltration Value	[value]	n/a	Air Infiltration Value	=[value]	n/a			
	Air Infiltration Value Units	[value]	n/a	Air Infiltration Value Units	=[value]	n/a			
Roof	Roof Construction	[value]	n/a	Opaque Surface	Roof	n/a			
	Canadal Dané Classification	funtual	- /-	Construction Method	=[value]	n/a			
	Special Koot Classification	[value]	n/a	Construction Method	=[value]	n/a n/a			
	Roof Finish	[value]	n/a	Opaque Surface	Roof	n/a			
	1		1	Location	Exterior	n/a			
	Roof Color	[value]	n/a	Opaque Surface	Roof	n/a			
			T	Location	Exterior	n/a			
	Deck Type	fvaluel	0/2	Color Onaque Surface	=[value] Roof deck	n/a			
	occa type	[value]		Material Qualifier	Framing	n/a			
				Material	=[value]	n/a			
	KOOT Insulation Application	[value]	nya	Upaque Surface Insulation Application	=[value]	n/a n/a			
	Roof Insulation Material	[value]	n/a	Opaque Surface	Roof	n/a			
1	1	1	1	Material Qualifier	Insulation	n/a		1	

BuildingSync			BuildingSync						
Table Name	BuildingSync Term	BuildingSync Value	Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
	Roof Inculation Thicknorr	fuctual	in.	Material Oncours Surface	=[value]	n/a			
	Root insulation Thickness	[value]	in.	Material Qualifier	Insulation	n/a			
				Thickness	=[value]	ft	=[value]/12		
	Roof Insulation Continuity	[value]	n/a	Opaque Surface	Roof	n/a			
	Roof Insulation Condition	[value]	n/a	Opaque Surface	Roof	n/a			
				Material Qualifier	Insulation	n/a			
	Roof Framing Material	fushual	0/2	Condition Oncours Surface	=[value]	n/a			
	Root Framing Wateria	[value]	iya	Material Qualifier	Framing	n/a			
				Material	=[value]	n/a			
	Roof Framing Spacing	[value]	in.	Opaque Surface Material Qualifier	Roof	n/a			
				Spacing	=[value]	ft	=[value]/12		
	Roof Framing Depth	[value]	in.	Opaque Surface	Roof	n/a			
				Material Qualifier	Framing	n/a	funtural (4.2		
	Roof Framing Factor	[value]	%	Opaque Surface	Roof	n/a	=[value]/12		
	-			Framing Factor	=[value]	%			
	Roof Exterior Solar	[value]	%	Opaque Surface	Roof	n/a			
	Absorptance			Solar Absorptance	=[value]	n/a %			
	Roof Exterior Thermal	[value]	%	Opaque Surface	Roof	n/a			
	Absorptance			Location	Exterior	n/a			
	Roof Slope	[value]	94	Thermal Absorptance	=[value] Roof	%			
	Nooi siope	[value]	78	Tilt Description	=[value]	%			
	Radiant Barrier			Opaque Surface	Roof	n/a			
		True	n/a	Radiant Barrier	Foil backed material	n/a			
	Roof R Value	Faise [value]	n/a hr-ft2-F/Btu	Opaque Surface	No radiant barrier Roof	n/a n/a			
				R-Value	=[value]	hr-ft2-F/Btu			
	Roof U Factor	[value]	Btu/hr-ft2-°F	Opaque Surface	Roof	n/a			
	Roof Insulation R Value	[value]	hr-ft2-F/Btu	U Factor Onaque Surface	=[value] Roof	btu/nr-tt2-"F			
		()		Material Qualifier	Insulation	n/a			
				R-Value	=[value]	hr-ft2-F/Btu			
Ceiling	Ceiling Construction	[value]	n/a	Opaque Surface	Ceiling	n/a			
	Ceiling Finish	[value]	n/a	Opaque Surface	Ceiling	n/a			
	-		-	Location	Interior	n/a			
	Calling Calm	furtual	- /-	Finish	=[value]	n/a			
	Celling Color	[value]	nya	Location	Interior	n/a			
		[value]		Color	=[value]	n/a			
	Ceiling Insulation Application	[value]	n/a	Opaque Surface	Ceiling	n/a			
	Ceiling Insulation Material	[value]	n/a	Onaque Surface	=[value] Celling	n/a n/a			
	8	()		Material Qualifier	Insulation	n/a			
				Material	=[value]	n/a			
	Ceiling Insulation Thickness	[value]	in.	Opaque Surface Material Qualifier	Ceiling	n/a			
				Thickness	=[value]	ft	=[value]/12		
	Ceiling Insulation Continuity	[value]	n/a	Opaque Surface	Ceiling	n/a			
	Calling Insulation Can distant	furtual	- /-	Insulation Continuity	=[value]	n/a			
	Centing insulation condition	[value]	n/a	Material Qualifier	Insulation	n/a			
				Condition	=[value]	n/a			
	Ceiling Framing Material	[value]	n/a	Opaque Surface	Ceiling	n/a			
				Material	=fvalue1	n/a			
	Ceiling Framing Spacing	[value]	in.	Opaque Surface	Ceiling	n/a			
				Material Qualifier	Framing	n/a			
	Ceiling Framing Depth	[value]	in.	Spacing Onaque Surface	=[value] Celling	π n/a	=[value]/12		
				Material Qualifier	Framing	n/a			
	Colling Freezier, 5	[units]	~	Depth	=[value]	ft	=[value]/12		
	Cening Framing Factor	[vaiue]	76	Framing Factor	=[value]	n/a %			
	Ceiling Visible Absorptance	[value]	%	Opaque Surface	Ceiling	n/a			
				Location	Interior	n/a			
	Ceiling R Value	โหลโนคไ	hr_ft2_E/P+	Visible Absorptance	=[value] Ceiling	% n/a			
	coming is value	[wide]	itz-r/ btu	R Value	=[value]	hr-ft2-F/Btu			
	Ceiling U Factor	[value]	Btu/hr-ft2-°F	Opaque Surface	Ceiling	n/a			
Fonortration	Exportration Tuno	fuctual	0/2	U Factor	=[value]	Btu/hr·ft2·°F			
renestration	Glass Type	[value]	n/a	Fenestration Glazing Type	=[value]	n/a			
	Fenestration Operation	True	n/a	Fenestration Operation	Operable	n/a			
		False	n/a		Non-operable	n/a			
	renestration Gas Fill	Argon Krynton	n/a n/a	renestration Gas Fill	Argon Krynton	n/a n/a			
		Other Insulating Gas	n/a	t	Other	n/a			
		Air	n/a	4	Air	n/a			
		Other	n/a	ł	Other Linknown	n/a		1	
	Fenestration Glass Layers	[value]	n/a	Fenestration Glass Layer	=[value]	n/a			
				Description	-				
	Visible Transmittance	[value]	%	Opaque Surface Component	Fenestration	n/a			
	Fenestration Frame Material	fvaluel	n/a	Visible Transmittance Fenestration Frame Material	=[value]	%		1	
	Fenestration R Value	[value]	hr-ft2-F/Btu	Opaque Surface Component	Fenestration	n/a			
				R Value	=[value]	hr-ft2-F/Btu			
	Fenestration U Factor	[value]	Btu/hr-ft2-°F	Opaque Surface Component	Fenestration	n/a			
	Solar Heat Gair Conflictor	fuctual	e/	U Factor	=[value]	Btu/hr·ft2·°F			
1	Window Orientation	[value]	n/a	Fenestration	Window	n/a		1	

BuildingSupe			BuildingSupe						
Table Name	BuildingSync Term	BuildingSync Value	Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
				Cardinal Orientation	=[value]	n/a			
	Window Layout	[value]	n/a	Fenestration Layout	=[value]	n/a			
	Exterior shading type	[value]	liya	Shading System	=[value]	n/a			
	Overhang Height above	[value]	ft	Shading System	Overhang	n/a			BEDES does not have qualifiers that identify this term as offset
	Overhang Projection	[value]	ft	Shading System	=[value] Overhang	π n/a			relative to the window.
			-	Depth	=[value]	ft			
	Vertical Fin Depth	[value]	ft	Shading System Depth	Fin =[value]	n/a ft			
	Distance Between Vertical Fins	[value]	ft	Shading System	Fin	n/a			
	Vortical Edge Ein Only	fuctual	n/2	Spacing (No corresponding field)	=[value]	ft			
	Light Shelves	[presence]	n/a	Shading System	Light shelf	n/a			
	Light Shelf Distance from Top	[value]	ft	Shading System	Light shelf	n/a			
	Light Shelf Exterior Protrusion	[value]	ft	Shading System	=[value] Light shelf	π n/a			
	.		-	Location	Exterior	n/a			
	Light Shalf Interior Protousion	fuctual	6	Depth Shading System	=[value]	ft n/a			
	agin sher menor riorason	[value]		Location	Interior	n/a			
	Interior Charling Trees	fundara)	- /-	Depth	=[value]	ft			
	interior snauing Type	[value]	nya	Shading System	=[value]	n/a			
	Window Sill Height	[value]	ft	Fenestration	Window	n/a			
	Window Height	[value]	ft	Sill Height Fenestration	=[value] Window	tt n/a			
	-		-	Height	=[value]	ft			
	Window Width	[value]	ft	Fenestration Width	Window =[value]	n/a ft			
	Window Horizontal Spacing	[value]	ft	Fenestration	Window	n/a			
	Marth anti-	T -112	- /-	Spacing	=[value]	ft			
	weatherstripped	False	n/a n/a	weatherstrip Status	Not weatherstripped	n/a n/a			
	Skylight Layout	[value]	n/a	(No corresponding field)	M	,			
	Skylight Pitch	[value]	tt/tt	Fenestration Tilt Angle	Skylight =[value]	n/a degrees	=atan[value]*57.296		
	Skylight Window Treatments	[value]	n/a	Fenestration	Skylight	n/a			
	Skulight Solar tubo	True	n/2	Shading System	=[value] Tubular cludiabt	n/a			
	Skylight Solar tube	False	n/a	(No corresponding field)	Tubulai skylight	liya			
	Exterior Door Type	[value]	n/a	Door Construction	=[value]	n/a			
	Door Operation	[value]	n/a	(No corresponding field)					
	Door Glazed Area Fraction	[value]	%	Fenestration	Door	n/a			
	Tightness Fit Condition	[value]	n/a	(No corresponding field)	=[value]	%			
Foundation	Ground Coupling	Slab on grade	n/a	Foundation Ground Coupling	Slab	n/a			
		Crawlspace Basement	n/a n/a		Crawlspace Basement	n/a n/a			
		Other	n/a	İ	Other	n/a			
	Clab Area	Unknown	n/a	Faundation Convert Counting	Unknown	n/a			
	Sidb Area	[value]	112	Area	=[value]	ft2			
	Slab Insulation Orientation	[value]	n/a	(No corresponding field)	et 1	,			
	Slab Perimeter	[value]	π	Perimeter	slab =[value]	n/a ft			
	Slab Exposed Perimeter	[value]	ft	Foundation Ground Coupling	Slab	n/a			
				Location Perimeter	Above grade =[value]	n/a ft			
	Slab Insulation Thickness	[value]	in.	Foundation Ground Coupling	Slab	n/a			
				Material Qualifier Thickness	Insulation =[value]	n/a ft	=[value]/12		
	Slab Insulation Condition	[value]	n/a	Foundation Ground Coupling	Slab	n/a	1.0.000		
				Material Qualifier Condition	Insulation =[value]	n/a n/a			
1	Slab Heating	[value]	n/a	Foundation Ground Coupling	Slab	n/a			
	Crawlsnace Venting	[value]	n/a	Conditioning Status Foundation Ground Coupling	=[value] Crawlsnace	n/a n/a			
				Conditioning Status	=[value]	n/a			
	Basement Conditioning	[value]	n/a	Foundation Ground Coupling	Basement -[value]	n/a			
	Floor Covering			Opaque Surface	Floor	n/a			
		Carpet	n/a	Finish	Carpet	n/a			
		Hardwood	n/a		Wood	n/a			
		Vinyl	n/a		Plastic rubber synthetic sheeting	n/a			
		Linoleum	n/a	t	Linoleum	n/a	<u> </u>		
		Other	n/a	ļ	Other	n/a			
	Plumbing Penetration Sealing	[value]	n/a	Plumbing Penetration Sealing	=[value]	n/a			
1	Floor Construction Type	[value]	n/a	Opaque Surface	Floor	n/a			
1	Floor Insulation Thickness	[value]	in.	Construction Method Opaque Surface	=[value] Floor	n/a n/a			
1				Material Qualifier	Insulation	n/a			
	Floor Insulation Condition	[value]	n/a	Thickness Onaque Surface	=[value] Floor	ft n/a	=[value]/12		
	Contraction Contraction			Material Qualifier	Insulation	n/a			
1	Floor B Value	(value)	hr-ft2-F/Rtu	Condition Onaque Surface	=[value] Floor	n/a n/a			
		(R Value	=[value]	hr-ft2-F/Btu			
1	Floor U Factor	[value]	Btu/hr-ft2·°F	Opaque Surface	Floor	n/a Btu/br.ft2.°F			
1	Floor Framing Spacing	[value]	in.	Opaque Surface	Floor	n/a			
				Material Qualifier	Framing	n/a	fundual (82)		
1	1	I	1	opacing	=[value]	IL.	=[value]/12		1

BuildingSync			BuildingSync						
I able Name	Elect Framing Dopth	BuildingSync Value	Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
	Floor Framing Depth	[value]	in.	Material Qualifier	Framing	n/a			
				Depth	=[value]	ft	=[value]/12		
	Floor Framing Factor	[value]	%	Opaque Surface	Floor	n/a			
				Framing Factor	=[value]	%			
	Foundation Wall Construction	[value]	n/a	Opaque Surface Construction Method	Foundation wall	n/a			
	Foundation Height Above	[value]	ft	Location	Above grade	n/a			
	Grade	()		Foundation Height	=[value]	ft			
	Foundation Wall Insulation	[value]	in.	Opaque Surface	Foundation wall	n/a			
	Thickness			Material Qualifier	Insulation	n/a			
	Foundation Mail D Malue	fundara)	h- 43 5/04-	Thickness	=[value]	ft	=[value]/12		
	Foundation Wall R Value	[value]	nr-π2-ŀ/Btu	Opaque Surface	Foundation wall	n/a			
	Foundation Wall U Factor	[value]	Btu/hr-ft2-°F	Onaque Surface	= value	n/a			
		()		U Factor	=[value]	Btu/hr·ft2·°F			
	Foundation Wall Insulation	[value]	n/a	Opaque Surface	Foundation wall	n/a			
	Continuity			Insulation Continuity	=[value]	n/a			
	Foundation Wall Insulation	[value]	n/a	Opaque Surface	Foundation wall	n/a			
	Condition			Material Qualifier	Insulation -[value]	n/a			
cal IT System	IT System Type	Data Center	n/a	Occupancy Classification	Data center	n/a			
		Server	n/a	Electronic Equipment Type	Server	n/a			
		Networking	n/a	Network Equipment Type	Network equipment	n/a			
		Security	n/a	Occupancy Classification	Security room	n/a			-
		relephoning	n/a	Liectronic Equipment Type	relephone	n/a			4
		5.5		on and a public rower supplies				1	
		Other	n/a	Electronic Equipment Type	Other	n/a]
		Unknown	n/a	Electronic Equipment Type	Unknown	n/a			
	IT Peak Power	[value]	w	End Use	IT Equipment	n/a			
		1		Consumption Rate Type	Rated power	n/a			4
		1		Lonsumption Kate	=[value] w	w/		1	4
	IT Standby Power	[value]	w	End Use	IT Equipment	n/a			
			1	Consumption Rate Type	Idle power	n/a]
		1		Consumption Rate	=[value]	w			
				Unit Of Measure	W	n/a			
	IT Nominal Power	[value]	w	End Use	IT Equipment	n/a			
				Consumption Rate Type	=[value]	w			
				Unit Of Measure	W	n/a			
Loads	Plug Load Type	Personal Computer	n/a	Electronic Equipment Type	Computer	n/a			
		Task Lighting	n/a	Electronic Equipment Type	Other	n/a			
		Printing	n/a	Electronic Equipment Type	Imaging	n/a			
		Cash Register	n/a n/a	Electronic Equipment Type	Cash register Audio	n/a			
		Display	n/a	Electronic Equipment Type	Display	n/a			
		Set Top Box	n/a	Electronic Equipment Type	Set top box	n/a			
		Business Equipment	n/a	Electronic Equipment Type	Other	n/a			
		Other	n/a	Electronic Equipment Type	Other	n/a			
	Plug Load Boak Dowor	Unknown	n/a	Electronic Equipment Type	Unknown	n/a			
	Flug Ludu Feak Fower	[value]	**	Consumption Rate Type	Rated power	n/a			
				Consumption Rate	=[value]	w			
				Unit Of Measure	w	n/a			
	Plug Load Standby Power	[value]	w	End Use	Plug Load	n/a			
				Consumption Rate Type	Idle power	n/a			-
				Unit Of Measure	W	n/a			
	Plug Load Nominal Power	[value]	w	End Use	Plug Load	n/a			
				Consumption Rate Type	Nominal power	n/a			4
				Consumption Rate	=[value]	W			
	Miscellaneous Electric Load	[value]	W/ft2	(No corresponding field)	w	n/a	+	1	REDES does not aggregate loads at this level, and it's impossible to
	mocciditeous ciecuric codo	[runc]	**/112	(no corresponding rield)	1			1	map general loads to the more detailed fields in BEDES. This
									mapping is addressed through more specific BuildingSync terms.
iss Load	Process Load Type	Medical Equipment	n/a	Process Load Type	Medical equipment	n/a			
		Laboratory Equipment	n/a	4	Laboratory equipment	n/a			
		Machinery Air Compressor	n/a	ł	widchinery Air compressor	n/a		1	1
		Fume Hood	n/a	t	Fume hood	n/a			
		Appliance	n/a	I	Other	n/a			
		Gaming/Hobby/Leisure	n/a	4	Other	n/a			
		Intrastructure	n/a	ł	Infrastructure	n/a			
		Ciectric Venicle Charging	n/a	t	ciectric vehicle charging Other	n/a			
		Unknown	n/a	t	Unknown	n/a		1	
	Process Load Peak Power	[value]	w	Load Category	Process	n/a			
				Consumption Rate Type	Rated power	n/a			4
		1		Consumption Rate	=[value]	W			
	Process Load Staadbar Daw	fuctual	14/	Unit Of Measure	W	n/a		1	
	Process Load Standby Power	[value]	w	Consumption Pate Type	Idle nower	n/a		1	1
				Consumption Rate	=[value]	W			1
		<u> </u>		Unit Of Measure	W	n/a			
	Heat Gain Fraction	[value]	%	(No corresponding field)					
	Miscellaneous Gas Load	[value]	kBtu/ft2	(No corresponding field)	1			1	BEDES does not aggregate loads at this level, and it's impossible to
		1		1				1	map general loads to the more detailed fields in BEDES. This
vevance	Conveyance System Type	[value]	n/a	Conveyance System Tyne	=[value]	n/a		1	mapping is addressed unrough more specific buildingsyric terms.
.,	Conveyance Load Type	[value]	n/a	Conveyance Load Type	=[value]	n/a		1	
	Conveyance Peak Power	[value]	w	Load Category	Conveyance	n/a			
		1		Consumption Rate Type	Rated power	n/a			4
		1		Consumption Rate	=[value]	W			
	Conveyance Standby Power	[value]	w	Load Category	Conveyance	n/a			
	same sunder rower	(T.	Consumption Rate Type	Idle power	n/a			1
		•	•	are the					•

Duilding Come			Duildin a Come						
Table Name	BuildingSync Term	BuildingSync Value	Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
				Consumption Rate	=[value]	w			
On-Site Storage	Energy Conversion Type	[value]	n/a	(No corresponding field)	w	n/a			Hierarchical element not used in BEDES
Transmission,	Onsite Generation Type	PV	n/a	Energy Generation Technology	Photovoltaic	n/a			This is primarily a hierarchical element in BuildingSync. If "Other"
Generation		Other	n/a		(No corresponding field)				selected, then Other Energy Generatioin Technology provides mo detail.
	Other Energy Generation Technology	[value]	n/a	Energy Generation Technology	=[value]	n/a			
	Output Resource Type	[value]	n/a	Output Resource Type	=[value]	n/a			
	Backup Generator	True	n/a	End Use	Generator	n/a			
		Tala.	- /-	Priority (No. 400)	Backup	n/a			
	Demand Reduction	[value]	n/a	(No corresponding field)					
	Photovoltaic System Number of Modules per Array	[value]	n/a	Energy Generation Technology	Photovoltaic	n/a			
				Technology Component Quantity of Modules per	Array =[value]	n/a n/a			
	Photovoltaic System Number	[value]	n/a	System Energy Generation Technology	Photovoltaic	n/a			
	of Arrays			Technology Component	Array	n/a			
				Quantity	=[value]	n/a			
	Photovoltaic System Maximum Power Output	[value]	Wdc	Energy Generation Technology	Photovoltaic	n/a			
				Resource Generation	Renewable	n/a			
				Consumption Rate Type	Maximum power output	n/a			
				Unit of Measure	W	n/a			
	Photovoltaic System Inverter Efficiency	[value]	%	Energy Generation Technology	Photovoltaic	n/a			
				Efficiency Qualifier	Energy conversion	n/a			
				Efficiency Value	=[value]	%			
	Photovoltaic System Array	[value]	degrees	Energy Generation Technology	Photovoltaic	n/a			
	Azimuth			Technology Component	Array	n/a			
				Azimuth	=[value]	degrees			
	Photovoltaic System Racking	[value]	degrees	Energy Generation Technology	Photovoltaic	n/a			In BEDES, tilt angle is not a Setpoint Type, and there is no
	System Tilt Angle Min								maximum or minimum Tilt Angle qualifier. Therefore this term
				Technology Component	Racking System	n/a			cannot be mapped perfectly.
	Rhotovoltaic System Racking	fusival	dogroop	Tilt Angle	=[value]	degrees			In REDEC, tilt angle is not a Sateplet Tune, and there is no
	System Tilt Angle Max	[value]	degrees	chergy deneration rechnology	Filotovoitaic	iya			maximum or minimum Tilt Angle qualifier. Therefore this term
	System filt Angle Max			Technology Component	Racking system	n/a			cannot be mapped perfectly.
				Tilt Angle	=[value]	degrees			
	Photovoltaic System Location	[value]	n/a	Energy Generation Technology	Photovoltaic	n/a			
				Location	-[value]	n/a			_
	Photovoltaic Module Rated	[value]	W E	Energy Generation Technology	Photovoltaic	n/a			
	Power								
	Photovoltaic System Location [value] 'hotovoltaic Module Rated [value] 'ower [value]			Technology Component	Module	n/a			_
				Consumption Rate Type	Renewable Rated nower	n/a			_
				Unit of Measure	W	n/a			-
				Consumption Rate	=[value]	w			
	Photovoltaic Module Length	[value]	in	Energy Generation Technology	Photovoltaic	n/a			
				Taskaslas: Company	Manhula	- (-			
				Length	=[value]	nya ft	=[value]/12		
	Photovoltaic Module Width	[value]	in	Energy Generation Technology	Photovoltaic	n/a			
				Technology Component	Modulo	0/2			
				Width	=[value]	ft	=[value]/12		
	External Power Supply	[value]	n/a	External Power Supply Mode	=[value]	n/a	(
	Energy Storage Technology	[value]	n/a	Energy Storage Technology	=[value]	n/a			
	Thermal Medium	[value]	n/a	Thermal Medium	=[value]	n/a			
Pool	Pool Type	[value]	n/a	Water Feature Type	=[value]	n/a			
	Pool Size Category	[value]	n/a	Pool Size Category	=[value]	n/a			PulldingSung groups pools and bot tubs in the guarall Bool
	neateu			water reature type	POOL	iya			category. They are differentiated by the PoolType term, but not for other attributes. These other attributes are all mapped to the "Pool" Water Feature Type in BEDES for simplicity.
1		[presence]	n/a	Water Feature Heating Method	Artificial	n/a			
		[absence]	n/a		Passive	n/a			
	Water Temperature	[value]	۴F	Water Feature Type	Pool Mixed water temperature	n/a			
				Setpoint type	=[value]	°F			
	Hours Uncovered	[value]	hrs/day	(No corresponding field)					
	Pool Area	[value]	ft2	Water Feature Type	Pool	n/a			
1	Pool Volume	fvaluel	ral	Area Water Feature Turco	=[value]	tt2			
	Pool volume	[value]	gai	Volume	=[value]	ft3	=[value]*0.133681		
1	Pump Duty Cycle	[value]	%	Water Feature Type	Pool	n/a			
				Process Load Type	Pump	n/a			
14/	Material Inc. The	Destances Cial	- /-	Duty Cycle	=[value]	%			
water Use	water Use Type	Restroom Toilet/Urinal Water	n/a	water Fixture Type	Toilet	n/a		1	1
1		Use		1	h				
1		Kitchen Water Use	n/a	1	Other	n/a	-		
		Shower Facility Water Use	n/a	+	Bath	n/a			
1		Janitorial Water Use	n/a	†	Other	n/a			1
		Laundry Water Use	n/a	1	Other	n/a			
		Indoor Washdown Water Use	n/a		Other	n/a			
1	1	(if indoor)	1	1	1	1	1	1	1

BuildingSync			BuildingSync						
I able Name	BuildingSync Term	Outdoor Landscape Water Use	n/a	BEDES Term	Other	n/a	Unit Conversion	Other Conversion Operations	Notes
		Outdoor Non-Landscape Water	n/a	1	Other	n/a			
		Outdoor Washdown Water Use	n/a		Other	n/a			
		(if outdoor) Cooling Tower Make-up Water	n/a	÷	Other	n/a			
		Use Hydronic Loon Make-un Water	n/a	-	Other	n/a			
		Use		-	- i				
		Evaporative Cooling System Water Use	n/a		Other	n/a			
		Pre-Treatment Process Water Use	n/a		Other	n/a			
		Captured Rain Water	n/a		Other	n/a			
		Recycled Greywater Condensate Recovery	n/a n/a	÷	Other Other	n/a n/a			
		Stormwater Sewer Production	n/a		Other	n/a			
		Stormwater Discharge	n/a		Other	n/a			
		Other	n/a		Other	n/a			
	Water Resource	[value]	n/a	Resource	=[value]	n/a			
	Water Fixture Rated Flow Rate	[value]	gpm	Load Category	Water feature	n/a			
				Setpoint Type Setpoint	Flow Rate =[value]	n/a ft3/min	=[value]*0.13368		
	Low Flow Fixtures	[value]	n/a	(No corresponding field)					
	Water Fixture Volume per Cycle	[value]	gal/cycle	Load Category	Water feature	n/a			
				Consumption Rate	=[value]	gal/cycle			
	Water Fixture Cycles per Day	[value1]	cycles/day	Load Category	Water feature	n/a			
	Water Fixture Volume per Cycle	[value2]	gal/cycle	Consumption Rate Type	Daily Draw	n/a			
				Consumption Rate	=[value1]*[value2]	gallons/day			
	Water Fixture Fraction Hot	[value]	%	Unit of Measure (No corresponding field)	gallons/day	n/a			
	Water								
Global Elements	Quantity Location	[value]	n/a n/a	Quantity Location	=[value] =[value]	n/a n/a			
	Control Technology	Programmable Thermostat	n/a	Control Technology	Thermostat	n/a			
		Manual Analog Thermostat	0/2	Control Strategy Control Technology	Programmable	n/a			
		Manual Digital Thermostat	n/a		Thermostat	n/a			
		Manual On/Off EMCS	n/a	-	Manual Energy Management and	n/a			
		Lines	190		Controls System	1,44			
		Always On Timer	n/a n/a	+	Always on Timer	n/a n/a			
		Other	n/a		Other	n/a			
	Primary Fuel	Unknown	n/a	Resource	Unknown	n/a			
	Year Installed	[value]	CCYY	Date Status	Installed	n/a			
				Date Date Format	=[value] Year	CCYY n/a			
	Year of Manufacture	[value]	CCYY	Year of Manufacture	=[value]	CCYY			
	Manufacturer Model Number	[value]	n/a	Manufacturer Model Number	=[value]	n/a			
	Capacity	[value]	n/a	Capacity	=[value]	n/a			
	Capacity Units	[value]	n/a	Unit of Measure	=[value]	n/a			
	Third Party Certification	[value]	n/a	Equipment Rating	=[value]	n/a			
	Linked Premises	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES
1	Linked Site ID	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Linked Facility ID	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Linked Thermal Zone ID	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Linked Subsection ID	[value]	n/a	(No corresponding field)	a. (.).	,			Hierarchical element not used in BEDES
Metadata	Source	Estimate	n/a n/a	Derivation Method	Estimated	n/a n/a			Hierarchical element not used in BEDES
		Government record	n/a	Origin	Government record	n/a			
		Agent Assessor	n/a n/a	-	Agent Assessor	n/a n/a			
		Auditor	n/a		Auditor	n/a			
		Product specification Building Component Library	n/a	-	Product specification Building Component Library	n/a			
		Utility transfer	n/a	Į	Utility transfer	n/a			
		Energy Management System Drawings	n/a n/a	ł	Energy Management System Drawings	n/a n/a			
		Direct measurement	n/a	Į	Direct measurement	n/a			
		Design files	n/a	ł	Design files	n/a			
		ENERGY STAR Portfolio	n/a	t	ENERGY STAR Portfolio Manager	n/a			
		Manager	0/2	ł	LIS EDA	e/2			
		US EIA	n/a	t	USEIA	n/a			
		Target Finder	n/a	ł	Target Finder	n/a			
1		ASHRAE	n/a	t	ASHRAE	n/a			
		Utility	n/a	ł	Utility	n/a			
1	ID	Uther	n/a	(No corresponding field)	Uther	n/a			Hierarchical element not used in PEDES

Mapping of BuildingSync Version 2.0 to BEDES Version 1.2 - Measures Data

Enumerations are only listed when there is a difference between BuildingSync and BEDES, otherwise "=[value]" is used. The BuildingSync enumerations must include all values to allow mapping, but some values in the corresponding BEDES term may not be used.

uildingSync			BuildingSync						
able Name	BuildingSync Term	BuildingSync Value	Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
cription	Type of Measure	[value]	n/a	Action Category	=[value]	n/a			
	Long Description	[value]	n/a	Notes Application Scale	=[value]	n/a			
	Premise Affected	[value]	n/a	(No corresponding field)	-[value]	nya			Hierarchical element not used in BEDES
	System Category Affected	Air Distribution	n/a	End Use	Other	n/a			This is primarily a hierarchical term in BuildingSync. used to help
	, , , , , , , , , , , , , , , , , , , ,	Heating System	n/a		Heating	n/a			identify the reference IDs for systems that are modified by the
		Cooling System	n/a		Cooling	n/a			measure.
		Other HVAC	n/a		Other	n/a			
		Lighting	n/a		Total Lighting	n/a			
		Domestic Hot Water	n/a		Domestic Hot Water	n/a			
		Cooking	n/a		Cooking	n/a			
		Refrigeration	n/a	-	Refrigeration	n/a			
		Laundar	n/a	1	Distiwastier	n/a			
		Pump	n/a		Process Load	n/a			
		Fan	n/a		Other	n/a			
		Motor	n/a		Process Load	n/a			
		Heat Recovery	n/a	1	Other	n/a			
		Wall	n/a		Other	n/a			
		Roof	n/a		Other	n/a			
		Ceiling	n/a		Other	n/a			4
		Fenestration	n/a	4	Other	n/a			4
		Foundation	n/a		Other	n/a			
		General Controls and Operations	n/a		Other	n/a			
		Critical IT System	n/a		IT Equipment	n/a			
		Plug Load	n/a		Plug Load	n/a			
		Process Load	n/a		Process Load	n/a			
		Conveyance	n/a	-	Conveyance	n/a			•
		Generation	n/a		Generator	nya			
		Pool	n/a		Pool Heating	n/a			
		Water Use	n/a		Other	n/a			
	Tashaalagu Catagaau	Other	n/a	Technology Cotogony	Other	n/a			
	Technology Category	ChillerPlantImprovements	n/a	rechnology category	Chiller plant improvements	n/a			
		BuildingAutomationSystems	n/a		Building automation systems	n/a			
		OtherHVAC	n/a		Heating ventilating and air	n/a			
					conditioning				
		LightingImprovements	n/a		Lighting improvements	n/a			
		BuildingEnvelopeModifications	n/a		Building envelope modifications	n/a			
		ChilledWaterHotWaterAndStea mDistributionSystems	n/a		Chilled water hot water and steam distribution systems	n/a			
		ElectricMotorsAndDrives	n/a	1	Electric motors and drives	n/a			
		Refrigeration	n/a		Refrigeration	n/a			
		DistributedGeneration	n/a		Distributed generation	n/a			
		RenewableEnergySystems	n/a		Renewable energy systems	n/a			
		EnergyDistributionSystems	n/a		Energy distribution systems	n/a			
		WaterAndSewerConservationSys tems	n/a		Water and sewer conservation systems	n/a			
		ElectricalPeakShavingLoadShiftin g	n/a]	Electrical peak shaving or load shifting	n/a			
		EnergyCostReductionThroughRa teAdjustments	n/a]	Energy cost reduction through rate adjustments	n/a			
		EnergyRelatedProcessImprovem ents	n/a		Energy related process	n/a			
		AdvancedMeteringSystems	n/a	1	Advanced metering systems	n/a	İ.	İ.	
		PlugLoadReductions	n/a]	Plug load reductions	n/a			
		FutureOtherECMs	n/a		Other	n/a			
		HealthAndSafety	n/a]	Other	n/a			
		Uncategorized	n/a		Other	n/a			
	Measure Name	[value]	n/a	Reporting Level Description	Measure =[value]	n/a n/a			
	Measure Coverage	[value]	%	Scope	=[value]	%			
	Existing System Replaced	Idref	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Existing System Affected	Idref	n/a	(No corresponding field)					Hierarchical element not used in BEDES

BuildingSync		Duildin (Quero Moluc	BuildingSync		Volue Monsier				Notes
I able Name	BuildingSync Term	BuildingSync Value	Units	BEDES Term	value Mapping	BEDES UNIT	Unit Conversion	Other Conversion Operations	Notes
	Altornative System Removed	Idref	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Alternative System Replacement		11/a	(No corresponding rield)					
	Alternative System Added	Idref	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Modified System	Idref	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Existing Schedule Affected	Idref	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Modified Schedule	Idref	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	M&V Option	Option A: Retrofit Isolation With Partial Measurement	n/a	IPMVP Option	Option A	n/a			
		Option B: Retrofit Isolation With Full Measurement	n/a		Option B	n/a			
		Option C: Whole Building Measurement	n/a		Option C	n/a			
		Option D: Calibrated Simulation	n/a		Option D	n/a			
		Combination	n/a		Other	n/a			
		Other	n/a		Other	n/a			
	Useful Life	[value]	yr	Reporting Level	Measure	n/a			
			-	Useful Life	=[value]	yr			
				Unit of Measure	Years	n/a			
	Recommended	True	n/a	Implementation Status	Recommended	n/a			
		False	n/a		Evaluated	n/a			
	Start Date	[value]	CCYY-MM-DD	Implementation Status	Initiated	n/a			
				Implementation Status Date	=[value]	CCYY-MM-DD			
				Date Format	Date	n/a			
	End Date	[value]	CCYY-MM-DD	Implementation Status	Completed	n/a			
				Implementation Status Date	=[value]	CCYY-MM-DD			
				Date Format	Date	n/a			
	Measure Rank	[value]	n/a	(No corresponding field)					
	Measure First Cost	[value]	Ś	Reporting Level	Measure	n/a			
				Cost Attribution	First	n/a			
				Unit Of Measure	Ś	n/a			
				Cost	=[value]	Ś			
	Capital Replacement Cost	[value]	\$	Reporting Level	Measure	n/a			
				Cost Attribution	Replacement	n/a			
				Unit Of Measure	Ś	n/a			
				Cost	=[value]	\$			
	Residual Value	[value]	Ś	(No corresponding field)					This value is a theoretical function of analysis period and measure
		[]	Ť	(lifetimes used for NPV analysis, and does not represent a real cost.
1	Implementation Status	[value]	n/a	Implementation Status	=[value]	n/a			
	Discard Reason	[value]	n/a	Discard Reason	=[value]	n/a			

Mapping of BuildingSync Version 2.0 to BEDES Version 1.2 - Reporting Data

Enumerations are only listed when there is a difference between BuildingSync and BEDES, otherwise "=[value]" is used. The BuildingSync enumerations must include all values to allow mapping, but some values in the corresponding BEDES term may not be used.

BuildingSync Tern	n BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
Scenario Name	[value]	n/a	Description	=[value]	n/a			
Temporal Status	[value]	n/a	Temporal Status	=[value]	n/a			
Normalization	[value]	n/a	Normalization	=[value]	n/a			
0	<u> </u>	-						a deside of the other sectors
Qualifier								Marked for deletion
								-
	Onsite	n/a	Resource Boundary	Onsite	n/a			
	Offsite	n/a	Resource Boundary	Offsite	n/a			
	Onsite and Offsite	n/a	Resource Boundary	Gross	n/a			
	Direct	n/a	Emission Boundary	Direct	n/a			
	Indirect	n/a	Emission Boundary	Indirect	n/a			
	Biomass	n/a	Emission Source	Biomass	n/a			-
	Net	n/a	Emission Boundary	Net	n/a			-
	Water	n/a	water Resource	Potable water	h/a			
	Municipally Supplied Reclaimed Water	n/a	Water Resource	Reclaimed water	n/a			
	Alternative Water Generated On-Site	n/a	Water Resource	Alternative water	n/a			
	Indoor	n/a	Location	Interior	n/a			
	Outdoor	n/a	Location	Exterior	n/a			
	Total	n/a	Resource Boundary	Gross	n/a			
Scenario Type	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES. Similar to Temporal Stat this term restricts subelements to relevant ones in BuildingSync.
Measured Energy Source	UtilityBills	n/a	Origin	Utility	n/a			
	DirectMeasurement	n/a		Direct measurement	n/a			
	Other	n/a		Other	n/a			
Weather Type	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES. Similar to Normalization this term restricts subelements to relevant ones in BuildingSync.
Weather Data Source	[value]	n/a	Weather Data Type	=[value]	n/a			
Weather Year	[value]	CCYY	Normalization	Adjusted to specific year	n/a			
			Collection Date	=[value]	CCYY			
			Date Format	Year	n/a			
Normalization Years	[value]	yr	(No corresponding field)					BEDES assumes 30 years for weather normalization.
Normalization Start Year	[value]	CCYY	(No corresponding field)					
Annual Heating Degree Days	[value]	"F-days	Weather Metric	Heating Degree Days	n/a			
			Weather Metric Value	=[value]	*F-days			
Appual Cooling Degree Dave	fueluel	°E dours	Interval Frequency	Annual	n/a			
Annual Cooling Degree Days	[value]	r-udys	Weather Metric Value	=[value]	°E dowr			
			Interval Frequency		n/a			
Calculation Method	[value]	n/a	Derivation Method	=[value]	n/a			
Software Program Used	[value]	n/a	Energy Software Tool	=[value]	n/a			
Software Program Version	[value]	n/a	Energy Software Tool Version	=[value]	n/a			
Benchmark Type	[value]	n/a	Benchmark Peer Group	=[value]	n/a			
Code Name	[value]	n/a	Building Energy Code or Standard	=[value]	n/a			
Code Version	[value]	n/a	Building Energy Code Or Standard	=[value]	n/a			
Code Year	[value]	CCYY	Building Energy Code Year	=[value]	CCYY			
Standard Practice Descriptio	n [value]	n/a	Description	=[value]	n/a			
Other Benchmark Descriptio	n [value]	n/a	Description	=[value]	n/a			
Benchmark Tool	[value]	n/a	Assessment Tool	=[value]	n/a			
Summer Peak	[value]	kW	Interval Measure	Demand	n/a			
		1	Interval Frequency	15 minute	n/a			
		1	Schedule Period	Summer	n/a			
		1	Power Metric Value	=[value]	kW			

IdingSync ble Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
				Power Metric	Power	n/a	-		-
	Winter Peak	[value]	kW	Interval Measure	Demand	n/a n/a			
	Winterreak	[ruide]		Interval Frequency	15 minute	n/a			4
				Schedule Period	Winter	n/a			
				Power Metric Value	=[value]	kW			
				Power Metric	Power	n/a			
				Unit of Measure	kW	n/a			
	End Use	All end uses	n/a	End Use	Premises	n/a			
		Total Lighting	n/a	-	Total Lighting	n/a			
		Interior Lighting	n/a	-	Interior Lighting	n/a			
		Heating	n/a	-	Heating	n/a			
		Cooling	n/a	1	Cooling	n/a			
		Ventilation	n/a		Ventilation	n/a			
		Pump	n/a		Pump	n/a			
		IT Equipment	n/a		IT Equipment	n/a			
		Plug in Electric Vehicle	n/a		Plug in Electric Vehicle	n/a			
		Plug Load	n/a		Plug Load	n/a			
		Process Load	n/a	-	Process Load	n/a			
		Conveyance	n/a	-	Conveyance	n/a			
		Domestic Hot Water	n/a	-	Domestic Hot Water	n/a			
		Retrigeration	n/a	-	Refrigeration	n/a			
		Dishwasher	n/a	-	Dishwasher	n/a			
		Laundry	n/a		Laundry	n/a			
		Pool Heating	n/a		Pool Heating	n/a			
		On Site Generation	n/a		Generator	n/a			
	Resource Boundary	[value]	n/a	Resource Boundary	=[value]	n/a			
	Site Energy Use	[value]	kBtu	Resource Boundary	Site	n/a			Site and source energy elements could be collapsed in BuildingSync because the ResourceBoundary term has been added. However, it
				Resource	Energy	n/a			
				Interval Frequency	Annual	n/a			would require another layer with unbounded energy use elements. It's
				Interval Measure	Total	n/a			simpler to explicitly include the two key energy use types so there is no
				Resource value	=[value]	KBtu			ambiguity if ResourceBoundary is left blank.
	Site Energy Lise Intensity	[value]	kBtu/ft2	Resource Boundary	Site	n/a			
	one energy use intensity	[value]	KBTU/TT2	Resource	Energy	n/a			
				Interval Frequency	Annual	n/a			
				Interval Measure	Total	n/a			
				Resource Intensity	=[value]	kBtu/ft2			
				Unit of Measure	kBtu/ft2	n/a			
	Source Energy Use	[value]	kBtu	Resource Boundary	Source	n/a			
				Resource	Energy	n/a			
				Interval Frequency	Annual	n/a			
				Interval Measure	Total	n/a			
			1	Linit of Measure	-[value]	n/a			
	Source Energy Lise Intensity	[value]	kBtu/ft2	Resource Boundary	Source	n/a			
		[]		Resource	Energy	n/a	İ	İ	1
			1	Interval Frequency	Annual	n/a			
				Interval Measure	Total	n/a			
			1	Resource Intensity	=[value]	kBtu/ft2			
				Unit of Measure	kBtu/ft2	n/a			
	Energy Cost	[value]	\$	Resource	Energy	n/a			
				Interval Frequency	Annual	n/a	-		
				Interval Measure	Total	n/a			
	Electricity Sourced from Oncite	[value]	k\W/b	Resource Boundary	=[vdlue] Site	2 n/a	<u> </u>		
	Renewable Systems	[voide]	N WIII	Resource	Flectricity	n/a	+		1
	nene wable systems			Interval Frequency	Annual	n/a	1		
				Interval Measure	Total	n/a	1		
				Resource Generation	Renewable	n/a	İ	İ	1
			1	Resource Value	=[value]	kWh			
			1	Unit of Measure	kWh	n/a			
	Onsite Renewable System	[value]	kWh	Resource Boundary	Onsite	n/a			
	Electricity Exported			Resource	Electricity	n/a			
				Interval Frequency	Annual	n/a			
				Interval Measure	Total	n/a			
			1	Resource Generation	Renewable	n/a			
			1	Resource Generation	Exported	n/a			
		1	1	Resource Value	=[value]	ĸWh			

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
	Mater Har	fuelue1	linel	Unit of Measure	kWh	n/a			
	water Use	[value]	кдат	Interval Frequency	Annual	n/a n/a			
				Interval Measure	Total	n/a			
				Resource Value	=[value]	kgal			
				Unit of Measure	kgal	n/a			
	Water Intensity	[value]	kgal/ft2	Resource	Potable water	n/a			
				Interval Frequency	Annual	n/a			
				Resource Intensity	=[value]	kgal/ft2			
				Unit of Measure	kgal/ft2	n/a			
	Water Cost	[value]	\$	Resource	Potable water	n/a			
				Interval Frequency	Annual	n/a			
				Interval Measure	Total	n/a			
	14/2	fuelue1	land.	Resource Cost	=[value]	\$			
	wastewater volume	[value]	кдаг	Resource	Appual	n/a			
				Interval Measure	Total	n/a			
				Resource Value	=[value]	kgal			
				Unit of Measure	kgal	n/a			
	Asset Score	[value]	n/a	Assessment Program	Commercial Building Energy Asset Score	n/a			
				Assessment Recognition Type	Score	n/a			
				Assessment Value	=[value]	n/a			
	ENERGY STAR Score	[value]	n/a	Assessment Program	ENERGY STAR	n/a			
				Assessment Recognition Type	Score	n/a			
Package	Reference Case	IDRef	n/a	(No corresponding field)	=[value]	11/d			Hierarchical element not used in BEDES
Summary Data	MeasuresID	IDRef	n/a	(No corresponding field)					Hierarchical element not used in BEDES
,	Annual Savings Site Energy	[value]	MMBtu/yr	Interval Frequency	Annual	n/a			
	0			Interval Measure	Total	n/a			
1				Resource Boundary	Site	n/a			
				Resource Savings	=[value]	MMBtu			
	Annual Cardana Carra Francis	fuelue1	A 49 404 - 4	Unit of Measure	MMBtu	n/a			
	Annual Savings Source Energy	[value]	MMBtu/yr	Interval Frequency	Annual	n/a			
				Resource Roundary	Total	n/a			
				Resource Savings	=[value]	MMBtu			
				Unit of Measure	MMBtu	n/a			
	Annual Savings Cost	[value]	\$/yr	Interval Frequency	Annual	n/a			
				Interval Measure	Total	n/a			
				Cost Savings	=[value]	\$			
	Annual Savings Native Units	[value1]	units/yr	Interval Frequency	Annual	n/a			
	Energy Resource	Resource [value2] ce Units [value3]	n/a n/a	Interval Measure	Total	n/a			
	Resource offics			Lipit of Measure	=[value2]	n/a			
				Resource Savings	=[value1]	units/vr			
	Summer Peak Electricity	[value]	kW	Resource	Electricity	n/a			
	Reduction			Interval Frequency	15 minute	n/a			
1			1	Interval Measure	Demand	n/a			
				Schedule Period	Summer	n/a			
				Resource Savings	=[value1]	kW			
			1	Power Metric	Power	n/a			
				Unit of Measure	kW	n/a			
	Winter Peak Electricity Reduction	[value]	kW	Resource	Electricity	n/a			
				Interval Frequency	15 minute	n/a			
				Schedule Period	Winter	n/a			
				Resource Savings	=[value1]	kW			
1			1	Power Metric	Power	n/a			
1				Unit of Measure	kW	n/a			
1	Annual Demand Savings Cost	[value]	\$/yr	Resource	Electricity	n/a			
1				Interval Frequency	Annual	n/a			
1				Interval Measure	Demand	n/a			
1				Power Metric	Power	n/a			4
1	Annual Water Savings	[value]	gal/yr	COSL Savings	=[vdlue] Potable water	ş/уг n/a			
1	, amaal water savings	[]	5ay yi	Interval Frequency	Annual	n/a			
1				Interval Measure	Total	n/a	İ		
1			1	Resource	Potable water	n/a			

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
				Unit of Measure	gallons	n/a aal/wr			
	Annual Water Cost Savings	[value]	\$/yr	Resource	Potable water	n/a			
	Ũ		,	Interval Frequency	Annual	n/a			
				Interval Measure	Total	n/a			
				Cost Savings	=[value]	\$/yr			
	Package First Cost	[value]	Ş	Reporting Level	Package	n/a			
				Cost Attribution	First	n/a			
				Lost Unit of Measure	=[value] ¢	> n∕a			
	MV Cost	[value]	\$/yr	Cost Attribution	ŴV	n/a			
			,	Interval Frequency	Annual	n/a			
				Periodically Recurring Costs	=[value]	\$/yr			
	Equipment Disposal and Salvage	[value]	\$	Cost Attribution	Disposal and salvage costs	n/a			
	Costs			Cost	=[value]	\$ - /-			
	OM Cost Appual Savings	[value]	ć	Savings Attribution	> Operation and maintenance	n/a n/a			
	Olvi Cost Annual Savings	[value]	Ş	Interval Frequency	Annual	n/a			
				Cost Savings	=[value]	\$			
	Other Cost Annual Savings	[value]	\$	Savings Attribution	Other	n/a			
				Interval Frequency	Annual	n/a			
				Cost Savings	=[value]	\$			
	Funding from Incentives	[value]	Ş	Funding Source	Incentive	n/a			
	Funding from Tax Credits	[value]	ć	Funding Amount	=[value] Tax credits	> n/a			
	running from fax circuits	[value]	Ŷ	Funding Amount	=[value]	Ś			
	Implementation Period	[value]	months	(No corresponding field)					
	Implementation Period Cost	[value]	\$	(No corresponding field)					
	Savings								
	Percent Guaranteed Savings	[value]	%	(No corresponding field)		,			
	Project Markup	[value]	%	Lipit of Moscuro	Markup	n/a			
				Cost	=[value]	11/a %			
	Recurring Incentives	[value]	Ś	Funding Source	Incentive	n/a			
			-	Cost Attribution	Recurring	n/a			
				Funding Amount	=[value]	\$			
	NPV of Tax Implications	[value1]	\$	Cost Attribution	Taxes	n/a			
	Analysis Period	[value2]	yrs	Cost Effectiveness Screening Method	Net Present Value	n/a			
				Cost Savings	=[value1]	Ś			
				Cost Period	=[value2]	yrs			
				Unit of Measure	Years	n/a			
	Other Firensis Linearthur	fuelue 41	¢		le contine	- /-			
	Analysis Period	[value1]	Ş Vrs	Funding Source	Incentive	n/a n/a			
	Analysis i erioù	[value2]	y13	cost Enectiveness screening Method	Net resent value	11/0			
				Funding Amount	=[value1]	\$			
				Cost Period	=[value2]	yrs			
				Unit of Measure	Years	n/a			
1	Simple Payback	[value]	yrs	Cost Effectiveness Screening Method	Simple payback	n/a			
1					forburt				
				Lost Effectiveness Value	=[value]	Years			
	Net Present Value	[value]	Ś	Cost Effectiveness Screening Method	Net Present Value	n/a			
		[]	Ŧ			, -			
				Cost Effectiveness Value	=[value]	\$			
				Unit of Measure	\$	n/a			
	Internal Rate of Return	[value]	%	Cost Effectiveness Screening Method	Internal Rate of Return	n/a			
1				Cost Effectiveness Value	-[value]	%			
				Unit of Measure	Percent	n/a			
1	Cost Effectiveness Screening	[value]	n/a	Cost Effectiveness Screening Method	=[value]	n/a			
	Method		I	• · · · ·					
Energy Use	Energy Resource	[value]	n/a	Resource	=[value]	n/a			
1	Percent Resource	[value]	%	Percent of Total	=[value]	%			
1	Percent End Use	[value]	%	Percent of Total	=[value]	%			
1	Resource Units	[value]	n/a	Unit of Measure	=[value]	n/a			
	Annual Fuel Use Native Units	[value1]	units/yr	Interval Frequency	Annual	11/a n/a			
1	Resource Units	[value3]	n/a	Resource	=[value2]	n/a			
1		[· · · ·	1	Unit of Measure	=[value3]	n/a			

ldingSync ble Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
				Resource Value	=[value1]	units/yr			
	Annual Fuel Use Consistent Units	[value]	MMBtu/yr	Interval Frequency	Annual	n/a			
				Interval Measure	Total	n/a			
				Resource Value	=[value]	MMBtu			
	Fuel Lise Intensity	[value1]	units/ft2/vr	Interval Frequency	Annual	n/a			
	Resource	[value2]	n/a	Interval Measure	Total	n/a			
	Resource Units	[value3]	n/a	Resource	=[value2]	n/a			
			-	Unit of Measure	=[value3]	n/a			
				Resource Intensity	=[value1]	units/ft2/yr			
	Type of Rate Structure	FlatRate	n/a	Rate Structure	Flat rate	n/a			
		TimeOfUseRate	n/a		Time of use rate	n/a			
		TieredRate	n/a		(No corresponding field)				Tiered rate structure is established under Tier Direcction in BuildingSync.
		Other	n/a		Other	n/a			
		Unknown	n/a		Unknown	n/a			
	Tier Direction	Increasing	n/a	kate structure	Tiered rate increasing	n/a			
		Othor	n/a		Other	11/d			
	Rate Structure Effective Date	[value]	CCVV-MM-DD	Schedule Period	Rate structure	11/ d			This is intended to be the effective date of the overall rate
		[volue]		Schedule Period Begin Month	=[value]	n/a		MM from BuildingSync must be converted to an integer	within the schedule. As a result, this field does not may perfectly with
				Schedule Period Begin Day	=[value]	n/a		DD from BuildingSync must be converted to an integer	BEDES, because year is not included.
	Rate Structure End Date	[value]	CCYY-MM-DD	Schedule Period	Rate structure				This is intended to be the effective date of the overall rate
				Schedule Period End Month	=[value]	n/a		MM from BuildingSync must be converted to an integer	schedule/structure, not the starting date of a particular rate period within the schedule. As a result, this field does not map perfectly with
				Schedule Period End Day	=[value]	n/a		DD from BuildingSync must be converted to an integer	BEDES, because year is not included.
	Rate Structure Sector	[value]	n/a	Sector Classification	=[value]	n/a			
	Rate Structure Name	[value]	n/a	Rate Structure ID	=[value]	n/a			
	Reference For Rate Structure	[value]	n/a	Rate Structure Reference	=[value]	n/a			
	Fixed Monthly Charge	[value]	\$	Charge Rate	Fixed monthly	n/a			
				Rate Charge Value	=[value]	\$/month			
		T	- 1-	Unit Of Measure	Month	n/a			Desthaller - Commender and a start to also also destant and an advantation of
	Net Metering	Falco	n/a	Meter Type	(No corresponding field)	n/a			Buildingsync does not include detailed meter descriptions.
	Metering Configuration	[value]	n/a	Metering Configuration	=[value]	n/a			
	Type of Resource Meter	[value]	n/a	Meter Type	=[value]	n/a			
	Fuel Interruptibility	[value]	n/a	Fuel Interruptibility	=[value]	n/a			
	Shared Resource System	Multiple buildings on a single lot	n/a	Shared Resource Configuration	Multiple building on a single lot	n/a			Typo in BEDES is corrected in BuildingSync. "Shared" is left out because it is duplicative.
		Multiple buildings on multiple lots	n/a		Multiple buildings on multiple lots	n/a			
		Not shared	n/a		Not shared	n/a			
		Other	n/a		Other	n/a			
		Unknown	n/a		Unknown	n/a			
	Power Plant	[value]	n/a	Contact Label	Power plant	n/a			
	Hiliby Name	fueluel	n/n	Company Name	=[value]	n/a			
	ounty Name	[value]	нуа	Company Namo	-fundual	11/d			
	Litility Meter Number	[value]	n/a	Identifier Label	Meter	n/a			
	ounty weter Number	[voide]	170	Identifier	=[value]	n/a			
	Utility Account Number	[value]	n/a	Contact Label	Utility	n/a			
	, ·			Identifier Label	Account	n/a			
				Identifier	=[value]	n/a			
	Utility Billpayer	[value]	n/a	Contact Label	Billing	n/a			
				Company Name	=[value]	n/a			
	Source Site Ratio	[value]	n/a	Source Site Ratio	=[value]	n/a			
	Electric Distribution Utility	[value]	n/a	Contact Label	Electric distribution utility	n/a			
				Company Name	=[value]	n/a			
	Average Marginal Cost Rate	[value]	\$/unit	Charge Rate	Average marginal buy	n/a			
			A	Rate Charge Value	=[value]	\$/unit			
	Average Marginal Sell Rate	[value]	Ş/unit	Charge Rate	Average marginal sell	n/a			
	F	fuelue)	6 hards	Rate Charge Value	=[value]	\$/unit			
	Energy Cost Rate	[vaiue]	\$/unit	Kate Designation	Energy	n/a			
				Unarge Rate	Buy -[ualua]	n/a			
	Enorgy Pata Adjustment	[value]	¢ /unit	Rate Charge Value	=[valUe]	ə/unit			
	Linergy hate Aujustinent	[souge]	φ, unic	Charge Rate	Ruy	n/a			1
				Rate Charge Value	=[value]	\$/unit			1
					freed.	T/ ····			

uildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
	Energy Sell Rate	[value]	\$/kWh	Resource	Electricity	n/a			
				Charge Rate Rate Charge Value	Sell	n/a ¢/kW/b			
				Unit of Measure	\$/kWh	n/a			
	Electric Demand Rate	[value]	\$/kW	Resource	Electricity	n/a			
				Rate Designation	Demand	n/a			
				Charge Rate	Buy	n/a			
				Rate Charge Value	=[value]	\$/kW			
				Unit of Measure	\$/kW	n/a			
	Demand Ratchet Percentage	[value]	%	Resource	Electricity	n/a			
	Demand Window		ł	Demand Ratchet Percentage	=[value]	% n /n			
	Demand Window	1	min	Interval Frequency	1 minute	n/a			
		10	min	interval frequency	10 minute	n/a			
		15	min		15 minute	n/a			
		30	min		30 minute	n/a			
		60	min		Hour	n/a			
		(Any other value)	min		Other	n/a			
	Rate Period Name	[value]	n/a	Schedule Period	Rate structure	n/a			
				Description	=[value]	n/a			
	TOU Number for Rate Structure	[value]	n/a	Schedule Period	TOU rate	n/a			
			,	Rate Structure Name	=[value]	n/a		Integer converted to text	
	Consumption Energy Tier Designation	[value]	n/a	Tier ID	=[value]	n/a			
	Max kWh Usage	[value]	kWh	Rate Designation	Energy	n/a			
				Tier Maximum	=[value]	kWh			
	And line his Chart Date For Forest	for the state		Unit of Measure	kWh	n/a			
	Applicable Start Date For Energy	[value]	IVIIVI-DD	Schedule Period	TOU Fate	n/a			
	Nate			Schodulo Poriod Pogin Month	=[uplue]	11/d		MMA from BuildingSync must be	•
				Schedule Period Begin Month	-[value]	11/ a		converted to an integer	
				Schedule Period Begin Day	=[value]	n/a		DD from BuildingSync must be	
								converted to an integer	
	Applicable End Date For Energy	[value]	MM-DD	Schedule Period	TOU rate	n/a			
	Rate			Rate Designation	Energy	n/a			
				Schedule Period End Month	=[value]	n/a		MM from BuildingSync must be	
								converted to an integer	
				Schedule Period End Day	=[value]	n/a		DD from BuildingSync must be	
								converted to an integer	
	Applicable Start Time For Energy	[value]	hh:mm:ss	Schedule Period	TOU rate	n/a			BEDES 1.2 refers to a timestamp data type in military hours, but there is
	Rate			Rate Designation	Energy	n/a			no format called "timestamp" that matches.
				Interval Start Time	=[value]	ннмм		Conversion of hour-minute combination is needed	
	Applicable End Time For Energy	[value]	hh:mm:ss	Schedule Period	TOU rate	n/a			BEDES 1.2 refers to a timestamp data type in military hours, but there is
	Kate			Rate Designation	Energy	n/a			no tormat called "timestamp" that matches.
				Interval End Time	=[value]	ннмм		Conversion of hour-minute combination is needed	
	Max kW Usage	[value]	kW	Resource	Electricity	n/a			
				Rate Designation	Demand	n/a			
			1	Tier Maximum	=[value]	kW			
	Descend Data Adjustment	fuelue1	6 lban	Unit of Measure	KW	n/a			
	vemand Rate Adjustment	[vaiue]	Ş/KW	Resource	Electricity	n/a			
				Rate Designation	Adjustment	n/a	l		
				Rate Charge Value	=[value]	\$/kW			
				Unit of Measure	Ś/kW	n/a			
	Applicable Start Date For Demand	[value]	MM-DD	Resource	Electricity	n/a			
	Rate		1	Schedule Period	TOU rate	n/a			
				Rate Designation	Demand	n/a			
				Schedule Period Begin Month	=[value]	n/a		MM from BuildingSync must be	
				Schedule Period Begin Day	=[value]	n/a		DD from BuildingSync must be	
	Applicable End Date For Demand	[value]	MM-DD	Resource	Electricity	n/a	1	converted to an iliteger	
	Rate			Schedule Period	TOU rate	n/a			
				Rate Designation	Demand	n/a			
				Schedule Period End Month	=[value]	n/a		MM from BuildingSync must be	
						,		converted to an integer	
				Schedule Period End Day	=[value]	n/a		DD from BuildingSync must be	
			1			1		converted to an integer	

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
	Applicable Start Time For Demand	[value]	hh:mm:ss	Resource	Electricity	n/a			BEDES 1.2 refers to a timestamp data type in military hours, but there is
	Rate			Schedule Period	TOU rate	n/a			no format called "timestamp" that matches.
				Rate Designation	Demand	n/a			
				Interval Start Time	=[value]	ннмм		Conversion of hour-minute combination is needed	
	Applicable End Time For Demand	[value]	hh:mm:ss	Resource	Electricity	n/a			BEDES 1.2 refers to a timestamp data type in military hours, but there is
	Rate			Schedule Period	TOU rate	n/a			no format called "timestamp" that matches.
				Rate Designation	Demand	n/a			
				Interval End Time	=[value]	ннмм		Conversion of hour-minute combination is needed	
	Reactive Power Charge	[value]	\$/kVAR	Resource	Electricity	n/a			
				Charge Rate	Reactive power charge	n/a			
				Rate Charge Value	=[value]	\$/kVAR			
				Unit of Measure	\$/kVAR	n/a			
	Minimum Power Factor Without	[value]	%	Resource	Electricity	n/a			
	Penalty			Minimum Power Factor Without Penalty	=[value]	%			
	Emission Boundary	[value]	n/a	Emission Boundary	=[value]	n/a			
	GHG Emissions	[value]	kgCO2e	Interval Frequency	Annual	n/a			
				Interval Measure	Total	n/a			
				Emission Gas Type	CO2e	n/a			
				Emissions Value	=[value]	kgCO2e			
	Avoided Emissions	[value]	kgCO2e	Interval Frequency	Annual	n/a			
				Emission Source	Avoided	n/a			
				Emission Gas Type	CO2e	n/a			
				Emission Value	=[value]	kgCO2e			
	Emissions Type	[value]	n/a	Emission Gas Type	=[value]	n/a			
	Emissions Factor	[value]	kg/MMbtu	Emissions Factor	=[value]	kg/MMBtu			
				Unit of Measure	kg/MMBtu	n/a			
	Emissions Factor Source	[value]	n/a	Origin	=[value]	n/a			
Time Series	Start Time Stamp	[value]	CCYY-MM- DDThh:mm:ss.sss	Interval Start Time	=[value]	CCYY-MM- DDTHH:MM:SS.S			
				Date Format	DateTime	n/a			
	End Time Stamp	[value]	CCYY-MM-	Interval End Time	=[value]	CCYY-MM-			
			DDThh:mm:ss.sss			DDTHH:MM:SS.S SS			
				Date Format	DateTime	n/a			
	Time Series Reading Quantity	Currency	n/a	Power Metric	Other	n/a			
		Current	n/a	Power Metric	Current	n/a			
		Current Angle	n/a	Power Metric	Current angle	n/a			
		Demand	n/a	Power Metric	Other	n/a			
		Frequency	n/a	Power Metric	Frequency	n/a			
		Power Faster	n/a	Power Metric	Power	n/a			
		Power Factor	n/a	Power Metric	Power factor Other	n/a			
		Voltage	n/a	Power Metric	Voltage	n/a			
		Voltage Angle	n/a	Power Metric	Voltage angle	n/a			
		Distortion Power Factor	n/a	Power Metric	Distortion power factor	n/a			
		Volumetric Flow	n/a	Power Metric	Volumetric Flow	n/a			
		Humidity ratio	n/a	Weather Metric	Humidity ratio	n/a			
		Relative humidity	n/a	Weather Metric	Relative humidity	n/a			
		Diffuse Horizontal Radiation	n/a	Weather Metric	Diffuse horizontal radiation	n/a			
		Direct Normal Radiation	n/a	Weather Metric	Direct normal radiation	n/a			
		Global Horizontal Radiation	n/a	Weather Metric	Global horizontal radiation	n/a			
		Dry Bulb Temperature	n/a	Weather Metric	Dry Bulb Temperature	n/a			
1		Wind Spood	n/a	weather Metric	Wet Bulb Temperature	n/a			
		Other	n/a	Power Metric	Other	n/a	l		
	Interval Reading	[value]	n/a	Power Metric Value	=[value]	n/a			The reading could be either a Power Metric or Weather Metric
	incerval neuring	[reade]		Weather Metric Value	=[value]	n/a			depending on Time Series Reading Quantity.
	Reading Type	[value]	n/a	Interval Measure	=[value]	n/a			, c
1	Phase	[value]	n/a	Phase	=[value]	n/a			
	Energy Flow Direction	[value]	n/a	Current Flow Direction	=[value]	n/a			
1	Interval Frequency	[value]	n/a	Interval Frequency	=[value]	n/a			
	Heating Degree Days	[value]	°F-days	Weather Metric	Heating Degree Days	n/a			
1				Weather Metric Value	=[value]	°F-days			
	Cooling Degree Days	[value]	°F-days	Weather Metric	Cooling Degree Days	n/a			
	1		1	Weather Metric Value	=[value]	°F-days		1	

BuildingSync			BuildingSync					Other Conversion	
Table Name	BuildingSync Term	BuildingSync Value	Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Operations	Notes
	HDD Base Temperature	[value]	°F	(No corresponding field)					In BEDES, HDD is always relative to 50F.
	CDD Base Temperature	[value]	°F	(No corresponding field)					In BEDES, CDD is always relative to 65F.
	Resource Use ID	IDRef	n/a	(No corresponding field)					Hierarchical element not used in BEDES
Audit Summary	Audit Date	[value]	CCYY-MM-DD	Action Category	Audit	n/a			
				Implementation Status Date	=[value]	CCYY-MM-DD			
				Date Format	Date	n/a			
	ASHRAE Audit Level	Preliminary Energy-Use	n/a	ASHRAE Audit Level	Other	n/a			
		Analysis							
		Level 1: Walk-through	n/a		Level 1	n/a			
		Level 2: Energy Survey and	n/a		Level 2	n/a			
		Analysis							
		Level 3: Detailed Survey and	n/a		Level 3	n/a			
		Analysis							
	Auditor Contact ID	IDRef	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Audit Cost [value]	[value]	\$	Action Category	Audit	n/a			
				Cost	=[value]	n/a			There is no Cost Attribution for audits
				Unit of Measure	\$	n/a			
	Analysis Period	[value]	yrs	Cost Period	=[value]	Years			
				Unit of Measure	Years	n/a			
	Discount Factor	[value]	%	Discount Factor	=[value]	%			
	Gas Price Escalation Rate	n Rate [value]	%	Resource	Natural Gas	n/a			
				Escalation Rate	=[value]	%			
	Electricity Price Escalation Rate	[value]	%	Resource	Electricity	n/a			
				Escalation Rate	=[value]	%			
	Water Price Escalation Rate	[value]	%	Resource	Water	n/a			
				Escalation Rate	=[value]	%			
	Escalation Rate	[value]	%	Escalation Rate	=[value]	%			
	Inflation Rate	[value]	%	(No corresponding field)					
	Auditor Qualification	[value]	n/a	Contact Label	Energy Auditor	n/a			
				Credential	=[value]	n/a			
	Auditor Qualification Number	[value]	n/a	Contact Label	Energy Auditor	n/a			
			1	Credential Number	=[value]	n/a			
	Auditor Qualification State	[value]	n/a	Contact Label	Energy Auditor	n/a			
	L			Credential State	=[value]	n/a			
	Certification Expiration Date	[value]	CCYY-MM-DD	(No corresponding field)					
	Certified Audit Team Member Contact ID	IDRef	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Audit Exemption	[value]	n/a	Audit Exemption	=[value]	n/a			