Building Energy Data Exchange Specification (BEDES) Compliant Mapping							
Date	3/16/2016						
Implementation	GRESB						
Implementation Version							
BEDES Version	V1.3						

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

GRESB Data Category GRESB Data Field GRESB Enumeration	GRESB Definition	GRESB Units	BEDES Term	BEDES Mapping	Bedes definition	BEDES Unit: Notes
Building Characteristics Property Type			Occupancy Classification		Classification main utilization of the premises by building occupants. Can be used to describe a complex, building, or spaces within the building. Premises include retailing merchandise such as furniture and home furnishings	n/a n/a
	Retail buildings located on the high street in a particular area, usually terraced buildings located in the city centre or other high-				Premises include retaining merchanolse such as furniture and nome furnishings stores, electronics and appliance stores, food and beverage stores, health and personal care stores, clothing and clothing accessories stores, sporting goods, hobby, book and music stores, and office supplies, stationery and gift stores.	nya
Retail, High Street	traffic pedestrian zones.		Retail	Occupancy Classification = "Retail"	Excludes malls.	n/a
Retail, Shopping Cent Retail, Warehouse	Enclosed centres for retail purposes. Examples can include, but are er not limited to: regional malls and shopping malls.		Retail mall Retail warehouse	Occupancy Classification = "Retail-Mall"	Premises located in one or more buildings comprised of small to large retailers, restaurants, and entertainment establishments located indoor or outdoor. Premises include retailing merchandise such as furniture and home furnishings stores, electronics and appliance stores, food and beverage stores, health and personal care stores, clothing and clothing accessories stores, spread return goods.	n/a
	Refers to buildings in an unenclosed retail space, otherwise known as a strip centre or strip mall, whereby buildings are usually stand- alone and situated side-by-side with their entrance facing a main street or caroark.			Occupancy Classification = "Retail" Occupancy Classification = "Warehouse"	hobby, book and music stores, and office supplies, stationery and gift stores. Excludes malls. Premises with warehousing and storage facilities excluding refrigerated spaces such as bulk farm products.	n/a
Office	Examples can include, but are not limited to: freestanding office, office terrace, unattributed office buildings, and office parks.		Office	Occupancy Classification = "Office"	Administrative and professional office premises that manage other establishments of the company.	n/a
	An industrial business park is an area zoned for the purpose of industrial development, where (light-weight) industrial buildings are grouped together with offices. Examples can include, but are not	2	Industrial		Industrial premises including food processing, manufacturing, high tech, metal processing, and pulp and paper firms. Premises may have fixed pieces of equipment, buildings or complexes used to produce goods as part of any process or system such as voltage optimization, water and wastewater systems,	n/a
	rrk limited to: industrial estate, trading estate, and enterprise zone. tho Industrial buildings used for the purpose of storing, processing, and distribution of goods to wholesalers, retailers, and/or consumers.		Industrial warehouse	Occupancy Classification = "Industrial" Occupancy Classification = "Industrial"	transport processing or other activity involving farm products off-farm. Industrial designs are meant to accommodate the making of a profit by providing a service or product to the commercial sector.	n/a
	usu ibuton of goods to wholesalets, recallets, and of consumers.			Occupancy Classification = "Warehouse"		n/a
Industrial, Manufactu	Industrial buildings used for the purpose of manufacturing. rir Otherwise known as a factory or manufacturing plant. Refers to multiple residential dwelling spaces contained within one		Industrial manufacturing plant	Occupancy Classification = "Industrial manufacturing plant"	machines, chemical and biological processing, or formulation that transforms raw materials into finished goods at large scales.	n/a
Residential, Multi-fan	building, otherwise known as a multi-dwelling unit. This includes low hily, mid- and high-rise apartment blocks.	v -	Residential	Occupancy Classification = "Residential"	Residential designs are meant to accommodate the needs of people residing on the premises.	n/a
	Includes both single-family homes and multi-dwelling units not including apartment blocks. A single-family home is a separate, free standing residential building. A multi-dwelling family home includes those such as two-flats, duplex, semi-detached, and townhouses. Synonyms include: Single-family home, single-detached dwelling,					
Residential, Family H	detached house, single-family residence, separate house, free- om standing house, townhouse, duplex, condo, semi-detached, villa. Residential buildings used for the purpose of housing seniors,		Residential	Occupancy Classification = "Residential"	Residential designs are meant to accommodate the needs of people residing on the premises.	n/a
Residential, Senior Ho	otherwise known as senior assisted living homes, retirement im homes/apartments, retirement villages, old-age homes.		Residential	Occupancy Classification = "Residential"	Residential designs are meant to accommodate the needs of people residing on the premises.	n/a
	Residential buildings used for the purpose of housing students, otherwise known as student apartments, student houses, student residence, student quarters, and student accommodation. Hotel: Examples can include, but are not limited to: hotels, motels,				Residential designs are meant to accommodate the needs of people residing on	
	lot youth hostels, lodging, and resorts. Examples can include, but are not limited to: hotels, motels, youth		Residential	Occupancy Classification = "Residential" Occupancy Classification = "Lodging with	the premises.	n/a
Hotel Healthcare	hostels, lodging, and resorts. Buildings used for the purpose of primary healthcare. Examples can include, but are not limited to: hospitals, clinics, physical therapy centers and mental health centers.		Hotel Health care	extended amenities" Occupancy Classification = "Health care"	Lodging premises including hotels and resort. Premises that host heath care services for the maintenance and improvement of physical and mental health.	n/a
reduitare	Examples can include, but are not limited to: offices specifically use for the purpose of medical administration, secondary research or other purposes, exclusive of the property types specified for	d			Premises that host heath care services for the maintenance and improvement of	n/a
Medical Office	Healthcare. Indoor center used for the purpose of leisure and recreation. Examples can include, but are not limited to: exercise facilities.		Health care	Occupancy Classification = "Health care"	physical and mental health.	n/a
Leisure	indoor sports courts, studios, and artificial pitches, swimming centers, and saunas/steam rooms. Building used for the purpose of data storage, processing, and/or distribution. Examples can include. but are not limited to:		Recreation	Occupancy Classification = "Recreation"	Recreation premises including roller skating rinks, climbing gym, bowling alleys, basketball courts, ping pong, racquetball, handball, and batting cages. A data center is a place that houses computer systems and backup power supply, data communication connections, environmental controls, and security devices	, n/a
Data Centers	distribution. Examples can include, but are not limited to: telecommunications centers and data storage centers. Indoor building or warehouse used for the purpose of self- storage		Data center	Occupancy Classification = "Data center"	data communication connections, environmental controls, and security devices such as telecommunications and storage systems.	n/a
Self-storage	for individuals and/or organizations, otherwise known as self- service storage. Enclosed, indoor vehicle parking space, usually made up of		Warehouse self storage	Occupancy Classification = "Warehouse self storage"	Self-storage providing secure premises where clients can store and retrieve their goods.	n/a
Parking (indoors)	numerous levels of which vehicles can be parked. Otherwise known as multi-story car park, parking building, parking garage, stacked ca parking, and indoor parking.	r	Parking	Occupancy Classification = "Parking"	Enclosed, partially enclosed, or open parking premises including attached garage, underground parking, uncovered driveways or lots, and covered carports.	
	State the property type. Other answers must be outside the options listed in the question as well as the pre-defined options within other They can include kindergarten, community halls, service stations, etc. Only use this option if your investments do not fit in to any of					n/a
Other Asset Name	the options given.		Other Premises Name	Occupancy Classification = "Other" Contact Label = "Premises" Contact Name = [value]	Unique identifier for a given premises. A premises can be any part of a building or land, such as a store in a mall, or a whole campus.	
Location Country			Country Name	Country Name = [value]	The name of the country in which the address is located.	n/a

Anse	SRESR Data Category GRESR Data Field GRESR Enumeration	CDECR Definition	GRESB Linits	BEDES Term	BEDES Mapping	Podec definition	REDEC 14	it Notos
ABS: ABC AM ANALONE ADDATA ADD	SRESB Data Category GRESB Data Field GRESB Enumeration	s GRESS Definition	GRESB Units	BEDES TERM	BEDES Mapping	bedes demnition		GRESB: BEDES requires separate portions of an Address rather than one field containing the entire address. So
index	Address			City	City = [value]	street name, prefixes, suffixes, modifiers, and unit number. The city for the Address associated with this contact. The state for the address associated with this contact.	n/a	the GRESB value would have to be parsed.
Arabit Brandmarker instruments into the second of the se			s	ZIP Code	ZIP Code = [value]	metropolitan area delivery station associated with an address.	11/ d	
Index index intermediation of the second	Area	usable area, occupied area, conditioned/treated area. For reportin to GRESB, you should be consistent in the floor area calculation the	orting	Premises Area	Area = [value]	stand alone, such as a restaurant inside a hotel. An area could also be section of a building that has distinctly different equipment densities, occupancies, energy-		GRESB: Note that BEDES has qualifiers that would help be more precise here such as Gross vs. Net. Also note that BEDES Area values are in units of ft2.
Image: Angle of the state	Period of ownership in months			Owned Interval Duration		Length of interval reading	Month	
weather bestering weather besterin	Asset Management							
historic fragmentation of the second	Managed Assets	^o operational contro [®] where operational control is defined as havin the ability to introduce and implement operating and/or environmental policies and measures. In case both the landlord an tenant have the authority to introduce and implement any or all o the policies mentioned above, the asset or building should be	d		Operational Control Actor = "Tenant" Operational Mode = "Custom"	N/A	n/a	
Reporting Building Area Categorization Base Building Commo Area Area Area Shared arth other building coccases, including entrance Area Shared fraiting and and produce sponses and after the transfer and after building coccases, including entrance Area Shared fraiting and area of an area of		and is relevant to asset or building-level data collection and aggregation. For Indirectly Managed assets or buildings, the single temant is determined to have "operational control," where operational control is defined as having the ability to introduce an implement operating and/or environmental policies and measure In case both the landlord and tenant have the authority to introdu and implement operating and/or environmental policies and measure above, the asset or building should be reported as a Managed asset or building. GRESS recognizes that in the case of indirectly Manage assets or buildings, increasing coverage of consumption data	d s. ce		Operational Mode = "Custom"			
Image: Provide	Indirectly Managed Assets	collected is typically a long-term rather than a short-term goal.		Tenant Managed	Custom Operational Mode = "Managed"	N/A	n/a	
hand so and so a	Reporting Building Area Categorization Base Building							
Shared Senvice/Central Plant erast all dated services, provide both here. Gentral Plant Decomprov Lender planted in many utilises from the central location, and provide services to decision of the central services that is expanded both there. no Ordeo/Lotroir services/barbanc Extailer for services (Lender planted Services the decision of the central services (Lender planted Services the decision of the central services (Lender planted Services the decision of the central services (Lender planted Services the decision of the central services (Lender planted Services the decision of the central services (Lender planted Services the decision of the central services (Lender planted Services the decision of the central services (Lender planted Services the decision of the central services (Lender planted Services the decision of the central services (Lender planted Services the decision of the central services (Lender planted Services the decision of the central services (Lender Services the decision of the central services the decision of the central services (Lender Services the decision of the central services the centr	Common Areas	areas, corridors, lifts, staircases, waste storage stores, communal kitchen, breakout facilities, etc. Shared Services/Central Plant is a central source providing energy for the whole building, including common areas and shared servic	es	Common area	Occupancy Classification = "Common area"	apartments, gated communities, condominiums, cooperatives and shopping mails.	n/a	
Tenant Space Lettable floor area (both vacant and let/hassed). The bat a consumption is purchased by Lenants and base building services to lettable/hasseb and common spaces. This should include lenery vacant and lettable/hasseb and common spaces. This should include lenery vacant and lettable/hasseb and common spaces. This should include lenery vacant to the portion of the building and the report to perform to report to consumption for the portion of the building and the report to report to consumption for the portion of the port to report to consumption for the whole building. N/A N/A <t< td=""><td></td><td>tor tenants. It consumption cannot be separated between commo areas and shared services, provide both here.</td><td>n</td><td></td><td></td><td>primary utilities from the central location. The outdoor space that is exposed to outside conditions. This can also be applied to Opaque Surfaces to describe the fact that one side of the surface is next to</td><td></td><td></td></t<>		tor tenants. It consumption cannot be separated between commo areas and shared services, provide both here.	n			primary utilities from the central location. The outdoor space that is exposed to outside conditions. This can also be applied to Opaque Surfaces to describe the fact that one side of the surface is next to		
Purchased by Landord Purchased by Landord NA NA <td< td=""><td></td><td>Lettable floor area (both vacant and let/leased)</td><td></td><td>Exterior</td><td>Location = "Exterior"</td><td></td><td></td><td></td></td<>		Lettable floor area (both vacant and let/leased)		Exterior	Location = "Exterior"			
Purchased by Landlord NA NA <t< td=""><td>renunt space</td><td></td><td></td><td></td><td></td><td></td><td></td><td>The total consumption is purchased by</td></t<>	renunt space							The total consumption is purchased by
Whole Building Itelable/leasable and common spaces. Finis should include all energy should include all								
Combined consumption common areas + tenant space whole building consumption for the whole building N/A n/a	Whole Building	lettable/leasable and common spaces. This should include all ener supplied to the building for the operation of the building and the tenant space. For reporting to GRESB, use this section to report consumption data in the case no separate data for Common areas						
Pion A coverage Floor Area Qualifier = "Custom" Pion	Combined consumption common areas + tenant space					N/A	n/a	
Data Coverage The part of the portfolio forwhich data is available, para are of the available of	Reporting Floor Area Categorization							
gross floor area or in net floor area. Be consistent in the floor area area in met floor area. Be consistent in the floor area area in m2/sq.ft. Maximum Coverage Area is (value) N/A fit2 converted if necessary. Hoor Area Qualifier = "Custom" Custom Floor Area Qualifier = "Maximum Hoor Area Qualifier = "Maximum Hoor Area Qualifier = "Maximum Hoor Area Qualifier = "Maximum Custom Floor Area Qualifier = "Maximum Hoor Area Qualifier = "Max	Data Coverage	building, and per fuel type. The floor area reported as Maximum Coverage should reflect the total floor area of the asset of that particular area of the building.	m2/sq.ft.		Custom Floor Area Qualifier = "Data f Coverage" Percentage of Total Area = [value] Floor Area Qualifier = "Custom"	N/A	%	Percentage of Total Area = (GRESB Dai Coverage / GRESB Maximum Coverage * 100 GRESB: BEDES unit of measurement fo
Maximum Coverage Floor Coverage"	Maximum Coverage	gross floor area or in net floor area. Be consistent in the floor are		Maximum Coverage Area	Coverage" Area = [value] Floor Area Qualifier = "Custom"	N/A	ft2	unit they use so that it can be accurate
	Maximum Coverage Type				Coverage"	N/A	n/a	

GRESB Data Category	y GRESB Data Field	GRESB Enumerations GRESB Definition	GRESB Lipite	BEDES Term	BEDES Mapping	Bedes definition	BEDES Uni	t Notes
CILLOD Data Categor	Average vacancy rate	Unitad kinimetrational Unitad Deminition	GREED UNITS	Annual Average Vacancy Capacity Percentage	Interval Frequency = "Annual" Interval Measure = "Average" Sensor Type = "Vacancy" Occupant Quantity Type = "Capacity percentage"	Couper Uterimitorial Capacity percentage: A percentage reflecting the occupancy level of the property. The occupancy is measured as the percentage of the property that is occupied and operational. For example, the average annual occupancy should be based on the number of rooms filled in a hotel. Occupancy is transformed to Vacancy for GRES8.	%	Transformation: Annual Average Vacancy Capacity Percentage = 100 - GRESB Average vacancy rate
F								
Energy	Fuels		kWh	Energy Resource Value	Resource = "Energy" Resource Value = [value] Unit Of Measure = "kWh" Resource = "Custom" Custom Resource = "District Heating And Cooling"	The amount of resource consumed, generated, or exported from the premises, where Resource = "Energy"	kWh	
	District Heating & Cooling		kWh	District Heating And Cooling Resource Value	Resource Value = [value] Unit Of Measure = "kWh" Resource = "Electricity"	The amount of resource consumed, generated, or exported from the premises, whereCustom Resource = "District Heating And Cooling"	kWh	
	Electricity		kWh	Electricity Resource Value	Resource Value = [value] Unit Of Measure = "kWh"	The amount of resource consumed, generated, or exported from the premises, where Resource = "Electricity"	kWh	
Greenhouse G	as Emissions							
	Scope 1	GHG emission from greenhouse gas sources (greenhouse gas physical unit or process that releases a GHG into the atmospl owned or controlled by the organization. Direct GHG emissio Indicator G4-EN15. Energy indirect greenhouse gas emission GHG emission from	here) ins: GRI tonnes the	Direct Emissions Value	Emission Boundary = "Direct" Emissions Value = [value]	Emissions that result in gases that trap heat in the atmosphere. Direct = This is used in association with GHG emissions, associated with on-site fuel combustion (e.g., combustion of natural gas or fuel oil).	kgCO2e	
	Scope 2	generation of imported electricity, heat or steam consumed organization. Energy indirect GHG emissions: GRI Indicator G EN16. Other indirect greenhouse gas emission. GHG emission, othe energy indirect GHG emissions, which is a consequence of an	4- tonnes er than	Indirect Emissions Value	Emission Boundary = "Indirect" Emissions Value = [value]	Emissions that result in gases that trap heat in the atmosphere. Indirect = This is used in association with GHC emissions, associated with purchases of fuel, such as from a utility plant.	kgCO2e	
	Scope 3	organization's activities, but arises from greenhouse gas sour that are owned or controlled by other organizations. Other in GHG emissions: GRI Indicator G4-EN17. Greenhouse gas offsets can be purchased to compensate for GHG emissions of the portofolo.	ndirect tonnes the	Other Indirect Emissions Value NO MAPPING	Emission Boundary = "Other" Emission Boundary = "Indirect" Emissions Value = [value]	Emissions that result in gases that trap heat in the atmosphere. Other indirect = No BEDES definition. N/A	kgCO2e	
	GHG offsets purchased	GHG emissions of the portfolio.	tonnes	NO MAPPING		N/A		
Water					Resource = "Water"			
	Water		m3	Water Resource Value	Resource Value = [value]		m3	
Waste								
	Total weight of hazardous waste Total weight of non-hazardous w % asset covered (based on floor a Recycling Proportion of waste by Incineration Proportion of waste Landfill Proportion of waste by di	iste in metric tonnes rea) disposal route (% of total waste) yo disposal route (% of total waste)	tonnes tonnes % % %	NO MAPPING NO MAPPING NO MAPPING NO MAPPING NO MAPPING NO MAPPING				
Building Certif	ications							
	Green building certificate Scheme name & Sub-scheme nam	ie		Assessment Program Assessment Recognition, Assessment level	Assessment Program = [value] Assessment Recognition = [value], Assessment Level = [value]	Program which issues energy labels, ratings, or sustainability certifications. Different Rating Programs within a Certification, if applicable. Value from certification programs that produce a descriptive (rather than numeric) rating, such as LEED or NGBS.	n/a n/a	GRESB: See BEDES list of "Assessment Program" for matching intended values GRESB: See BEDES list of "Assessment Recognition" for matching intended values GRESB: See BEDES "Assessment Value"
	Score			Assessment Value	Assessment Value = [value]	The property value as of the last assessment made by the taxing authority.	n/a	and/or "Assessment Level" for matching intended Score
Energy ratings								
	Energy Rating Name			Assessment Program	Assessment Program = [value]	Program which issues energy labels, ratings, or sustainability certifications. Assessment Recognition: Different Rating Programs within a Certification, if	n/a	GRESB: See BEDES list of "Assessment Program" for matching intended values
	Scheme name & Sub-scheme nan	ie		Assessment Recognition, Assessment Level	Assessment Recognition = [value], Assessment Level = [value]	applicable. Assessment Level: Value from certification programs that produce a descriptive (rather than numeric) rating, such as LEED or NGBS.	n/a	GRESB: See BEDES list of "Assessment Recognition" for matching intended values GRESB: See BEDES "Assessment Value"
						Value from certifications that produce a numeric metric, such as Energy Star		and/or "Assessment Level" for matching