## Sustainable Technologies for Green Building, Green Infrastructure, and Sustainable Energy Design in Evaluation Matrix Format

Items	Primary/ Secondary Target Resources for Sustainable Uses	Example of Existing Sustainable Technologies	Attain Multiple Sustainable Objectives	Performance			Comments/ Remarks/	
				High	Medium	Low	Applicability and Maintenance	Recommendations for Implementation
1.	Primary Target: Water Management	and diverse plant community. It improves biodiversity; mitigate excessive urban temperatures and stormwater	Water Conservation					
	Energy Management, significantly reduce both air co		Energy Conservation					
			Improve Biodiversity					
			Improve Community Benefits/Education					
2.		Soakaways, Infiltration Trenches and Chambers: Manmade depressions, engineered to hold back surface water and let it infiltrate into the soil, thus reducing the volume of runoff. Basins are landscaped to create structures that appear natural and offer an amenity value for the local	Water Conservation					
	runoff. Basins are landscaped to create structu		Energy Conservation					
		community.	Enhance Biodiversity					
			Enhance Community Benefits/Education					

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3.	Bioretention: Bioretention swales provide both stormwater treatment and conveyance functions. The swale component provides pre-treatment of stormwater to	Water Conservation		
	remove coarse to medium sediments while the bioretention system removes finer particulates and associated contaminants.	Energy Conservation		
		Enhance Biodiversity		
		Enhance Community Benefits/ Education		
4.	Naturalized Stormwater Pond:	Water Conservation		
	HIII TO THE PARTY OF THE PARTY	Energy Conservation		
	mm I was a second and	Enhance Biodiversity		
		Enhance Community Benefits/ Education		
5.	Bioswales: Bioswales are linear, vegetated channels which allow for the collection, transport, filtration and absorption of stormwater. Bioswales typically take	Water Conservation		
	stormwater runoff from nearby paved surfaces and hold the water long enough to allow it to slowly soak into the	Energy Conservation		
	deep soil and possible rock drainage layer.	Enhance Biodiversity		

			Community Benefits/ Education		
6.	Permeable Pavement: A type of hard surfacing that allows rainfall to percolate through to underlying soil substrate or be removed by a subsurface drain.  Permeable paving can replace conventional asphalt and concrete for sidewalks, driveways, parking areas and road	Water Conservation  Energy Conservation			
		surfaces.	Enhance Biodiversity		
			Enhance Community Benefits/ Education		
7.	Primary Targets: Energy Management, Community Benefits,	Green /Cool Roof:	Water Conservation		
	etc.	c.	Energy Conservation		
	Secondary Targets: Water Management, Biodiversity, Community Benefits, etc.	The state of the s	Enhance Biodiversity		
		efits,	Enhance Community Benefits/ Education		
8.		Green architecture with cross-ventilation:	Water Conservation		

		Energy Conservation		
		Enhance Biodiversity	-	
		Enhance Community Benefits/ Education		
9. Using sus	stainable construction materials:		-	
Integrating organic co	biodegradable (such as paints without volatile impounds), recycled and sustainable materials construction enhance conservation of natural	Water Conservation		
resources.		Energy Conservation		
		Enhance Biodiversity		
		Enhance	_	
		Community Benefits/ Education		
10. conservati	Green Infrastructure practices contribute to energy conservation initiatives by insulating buildings, shading	Water Conservation	_	
island effe	nvelopes and/or ameliorating the urban heat ect. In addition to the direct energy saving	Energy Conservation	_	
sustainabl	benefits, they can also be built as a complement to sustainable energy generation practices. For example, the buildings below include solar arrays installed on a			
green roof		Enhance Biodiversity	-	

	Enhance Community Benefits/ Education		
The Chicago Caster for Green Technology is a Monocase for many green stammaster infrastructure strategies			