

Rating System, Country of Origin, & Source	Development Basis	Categories & Weights <sup>1</sup>	Scope
BREEAM v6.0 (UK) (Fowler and Rauch, 2006; Rezaallah and Khoraskani, 2012; Ferreira <i>et al.</i> , 2023; <i>BREEAM-SE New Construction v6.0 Technical Manual 1.1</i> , 2023)	Original	Management – 10.82% Health and Wellbeing – 17.53% Energy – 18.4% Transport – 7.65% Water – 3.94% Materials – 16.73% Waste – 7.87% Land Use and Ecology – 9.84% Pollution – 7.22% Innovation (Bonus) – 10%	Communities Infrastructure New Construction (residential and commercial) In-Use (commercial) Refurbishment and Fit Out (residential and commercial)
LEED v4 (US) (‘LEED v4 BDC Reference Guide’, 2013; ‘LEED v4 for Homes Design and Construction Checklist’, 2014; Mohamed, Alwan and Marzouk, 2018)	Original	Integrative Process – 2% Location & Transportation – 15% Sustainable Sites – 7% Water Efficiency – 12% Energy & Atmosphere – 37% Materials & Resources – 9% Indoor Environmental Quality – 18% Innovation (Bonus) – 6% Regional Priority (Bonus) – 4%	Building Design and Construction (core and shell, schools, healthcare, retail, data centers, hospitality, warehouses, and distribution centers) Interior Design and Construction (commercial, retail & hospitality) Operation and Maintenance (existing buildings, existing interiors, schools, retail, data centers, hospitality, warehouses, and distribution centers) Residential (single family & low to mid rise multifamily) Neighborhood Development Cities and Communities
CASBEE <sup>2</sup> (Japan) (Fowler and Rauch, 2006; Dahal, 2017)	Original	Indoor Environment Quality of Service On-site Environment Energy Resources and Materials Off-site Environment	New Construction (buildings, detached houses & dwelling units) Existing Buildings Renovation (buildings & housing) Temporary Construction Urban Development Cities
GREEN STAR v1.3 (Australia) (Fowler and Rauch, 2006; Nguyen and Altan, 2011; ‘Design & As Built   Green Building Council of Australia’, 2017)	BREEAM LEED	Management – 14% Indoor Environmental Quality – 17% Energy – 22% Transport – 10% Water – 12% Materials – 14% Land Use and Ecology – 6% Emissions – 5% Innovation (Bonus) – 10%	Communities Buildings – Design & As Built Interiors Performance – Existing Buildings
DGNB version 2023 (Germany) (‘DGNB System – Sustainable and green building’, 2020; DGNB SYSTEM KRIERIENKATALOG GEBAUDE NEUBAU, 2023; Ferreira <i>et al.</i> , 2023)	Original	Process Quality – 12.5% Site Quality – 5% Environmental Quality – 22.5% Social and Functional Quality – 22.5% Technical Quality – 15% Economic Quality – 22.5%	Districts Construction Sites New Construction (office, residential, educational, hotel, consumer market, shopping center, department store, logistics, production, and assembly buildings) Renovated and Existing Buildings Interiors Buildings in Use Deconstruction of Buildings
PRS v1.0 (UAE) ( <i>The Pearl Rating System for Estidama Building Rating System Design &amp; Construction</i> , 2010; Ramani and Garcia De Soto, 2021)	BREEAM LEED <sup>3</sup>	Integrated Development Process – 7% Natural Systems – 7% Livable Buildings – 21% Precious Water – 24% Resourceful Energy – 25% Stewarding Materials – 16% Innovating Practice (Bonus) – 2%	Design and Construction (villa, building, community) Public Realm
MOSTADAM V1.1 (Saudi Arabia) ( <i>Mostadam Rating System Residential Buildings D+C Manual</i> , 2019)	BREEAM LEED	Site Sustainability – 9% Transportation and Connectivity – 7% Region and Culture – 7% Energy – 27% Water – 24% Health and Comfort – 14% Materials and Waste – 4%	Design and Construction (communities, residential & commercial) Operation and Existing (communities, residential & commercial)

<sup>1</sup> The weights presented are for multi-family residential buildings if available.

		Education and Innovation – 4% Policies, Management and Maintenance – 4%	
GPRS v2 (Egypt) (Harb, 2019; HBRC, 2019)	LEED	Sustainable Site – 10% Energy Efficiency – 28% Water Efficiency – 30% Materials & Resources – 12% Indoor Environmental Quality – 12% Management Protocols – 8% Innovation and Added Value (Bonus) – 5%	New Construction
TARSHEED (Egypt) (Harb, 2019; BUILD ME Project-Phase II Status of Energy Efficiency in the Egyptian Building Sector Dr. Dalia Sakr, Egypt Green Building Council, 2020)	The Excellence in Design for Greater Efficiencies (EDGE) rating system	Energy – 46% Water – 19% Habitat – 35%	Residential Commercial Communities School Healthcare

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<sup>2</sup> The weight of each category varies depending on the project.

<sup>3</sup> Author's observation