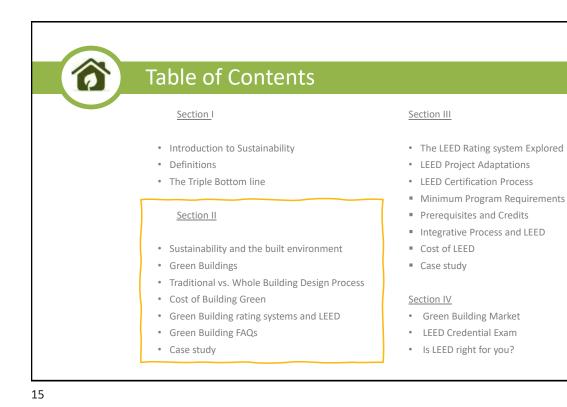
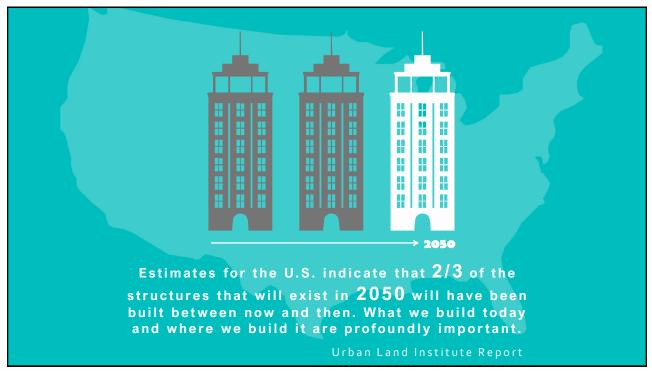


Corporate Social Responsibility (CSR)

CSR policies are a comprehensive set of sustainable business initiatives that facilitate a company's triple bottom-line approach to operating business.







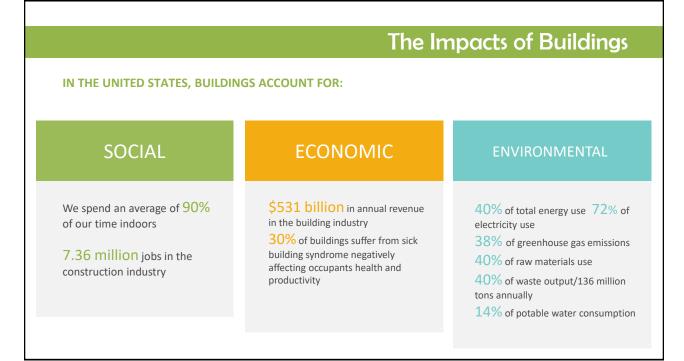




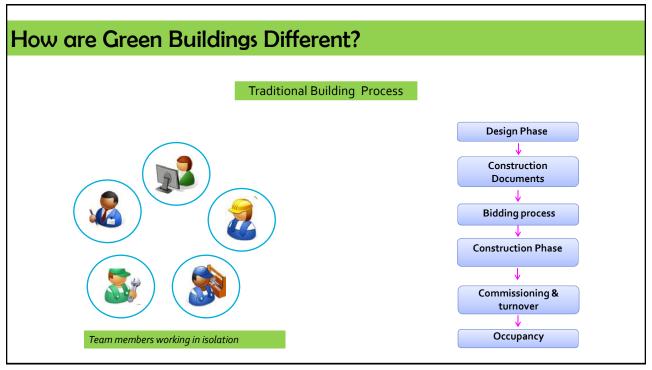
Green Building

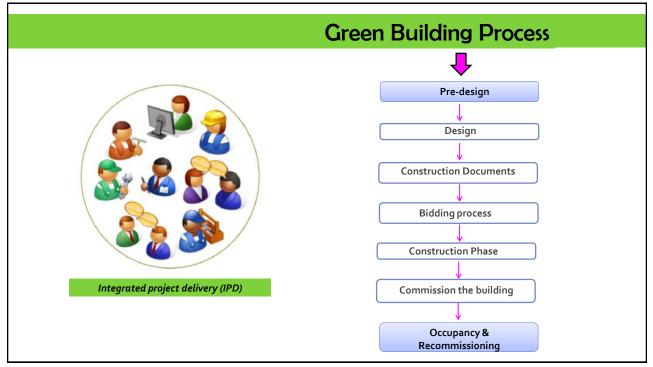
Green buildings:

Facilities which are environmentally friendly and consume less energy, water and materials, produce less waste comparing to a traditional building and offer a healthy environment for its occupants









Cost of Building Green

"In the most comprehensive analysis of the financial costs and benefits of green building conducted to date, this report finds that an upfront investment of less than **two percent of construction costs yields life cycle savings of over ten times the initial investment.** For example, an initial upfront investment of up to \$100,000 to incorporate green building features into a \$5 million project would result in a savings of at least \$1 million over the life of the building, assumed conservatively to be 20 years."

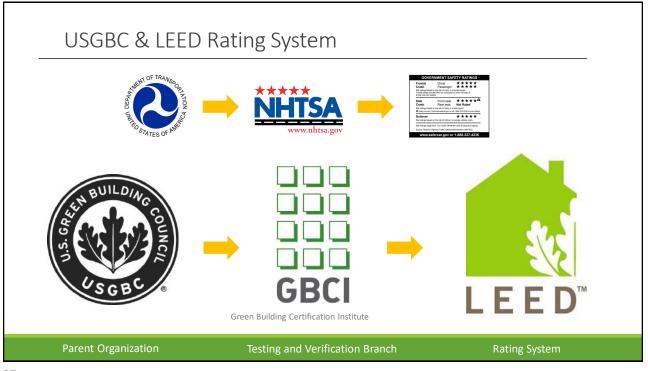
-The Cost and Finical Benefits of Green Buildings, a report by Capital E

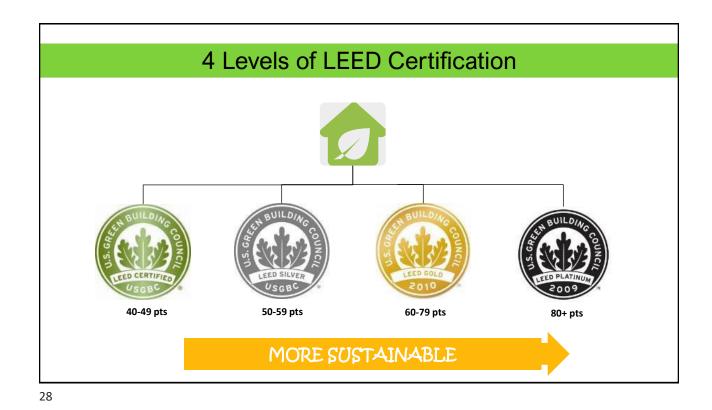


0.7%-6.5% the average cost increase of green offices and schools

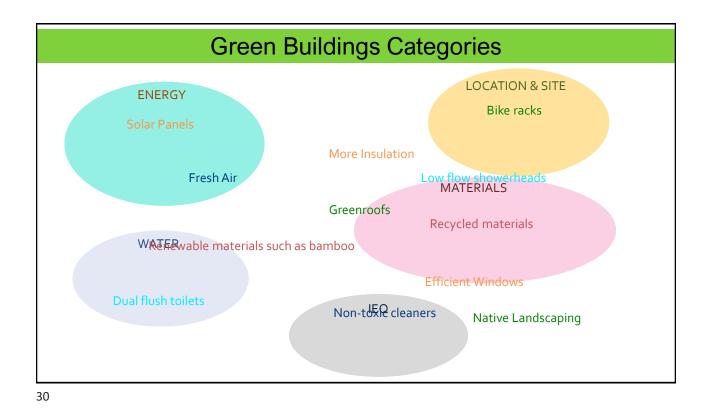


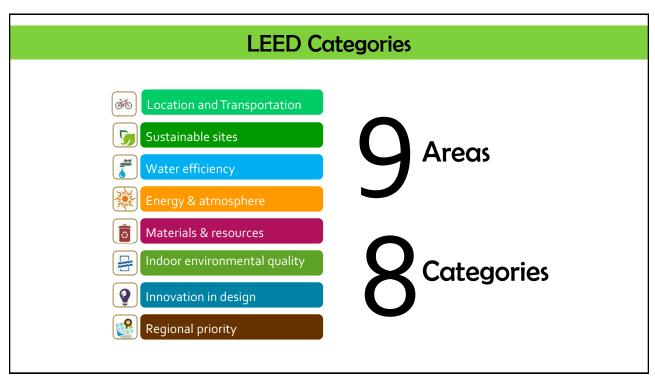


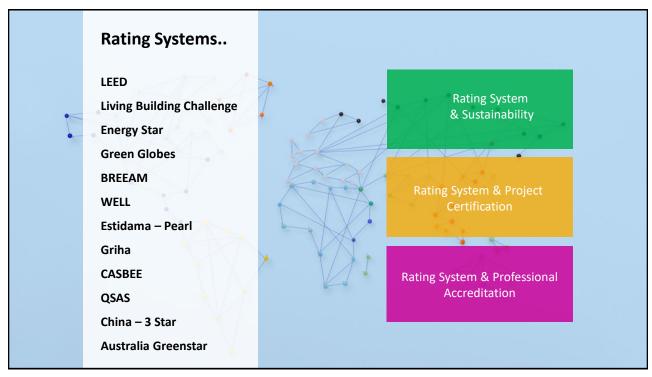




Nutrition Facts 1 Medium Onio... (148g/5.3oz.) Serving Size **LEED®** Facts [Your Project Here] Amount per Serving **LEED**[®] Facts [City, State, County] **Calories from Fat 0** Calories 45 Habitat for Humanity Grand Rapids, MI %Daily Value * LEED for New Construction LEED for Homes Total Fat 0g 0% Certification awarded March 2011 Saturated Fat Og 0% 110* Platinum 68.5 Gold 0% Cholesterol 0 mg Sodium 5mg 0% 💈 Sustainable Sites 26 🕝 Innovation & Design 5/11 Potassium 190mg 5% O Water Efficiency 10 C Location & Linkages 10 / 10 Total Carbohydrate 11g 4% 😚 Sustainable Sites 8/22 35 Energy & Atmosphere Dietary Fiber 3g 12% 🚺 Water Efficiency 4/15 Sugars 9g Materials & Resources 14 😳 Energy & Atmosphere 23.5 / 38 Protein 1g teer Envire ntal 0 Materials & Resources 8/16 15 9/21 Vitamin C 20% Indoor Environmental Quality Vitamin A 0% "Out of a possible 100 points + 10 bonu nointi Calcium 4% Iron 4% 🙆 Awareness & Education 1/3 * Percent Daily Values are based on a 🙆 Innovation & Design 6 *Out of a possible 136 points 2,000 calorie diet. Your daily values may be higher or lower depending on 2 Regional Priority 4 your Daily needs. Source: USDA Federal Register August 17, 2006







Popular Misc	onceptions
I can't make a difference Average showerhead flow - 2.5 gallons per minute High efficiency showerhead flow – 1.6 gallons per minute 5 minute shower, switching the shower head will save 4.5 gallons of water/person/day For <u>365</u> days – Conserve 6,570 gallons of water/person Retrofitting 1 out of 100 American homes with water –efficient fixtures 80,000 tons of green house gas emissions 15,000 CAIS from the road for one year	



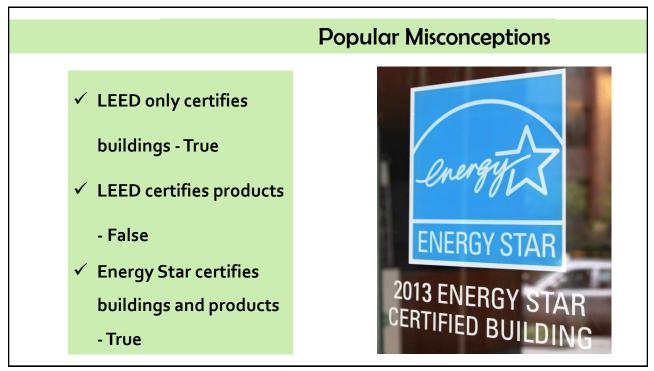








Table of Contents Section III Section I • Introduction to Sustainability • The LEED Rating system Explored Definitions • LEED Project Adaptations • The Triple Bottom line LEED Certification Process Minimum Program Requirements Prerequisites and Credits Section II Integrative Process and LEED • Sustainability and the built environment Cost of LEED • Green Buildings Case study • Traditional vs. Whole Building Design Process • Cost of Building Green Section IV • Green Building rating systems and LEED • Green Building Market • Green Building FAQs LEED Credential Exam • Case study • Is LEED right for you? 39

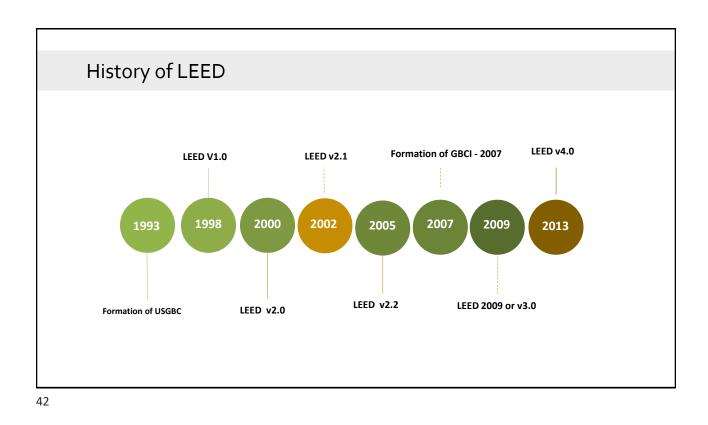
United States Green Building Council - USGBC

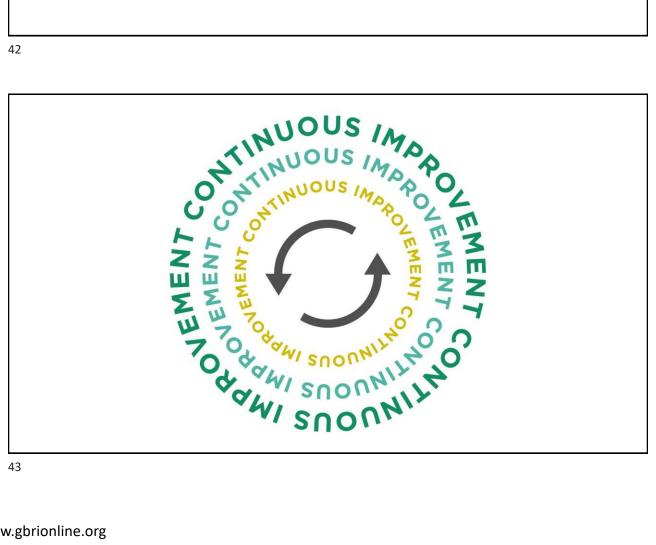
- Founded in 1993 as a non-profit
- A community of leaders working to make green buildings available to everyone
- Over 15,000 member organizations from every sector of building industry
- Works to promote buildings that are environmentally responsible, profitable, and healthy places to live and work
- Provides Educational opportunities to learn about sustainable design
- Handles the development of LEED rating systems
- Offers LEED-based educational research programs



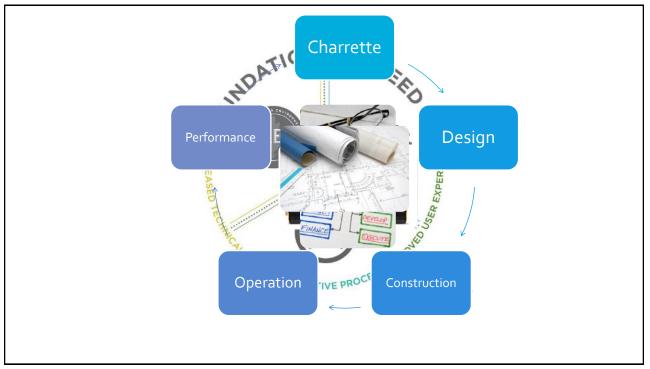
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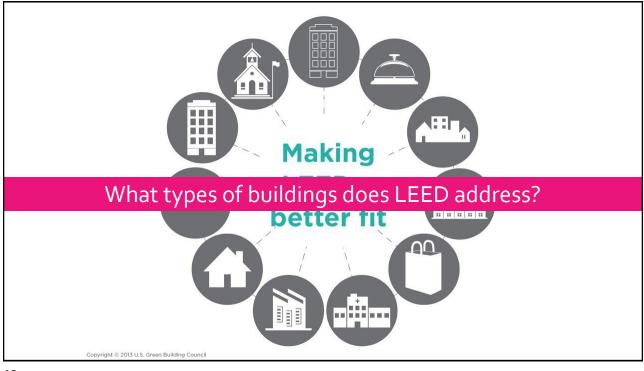


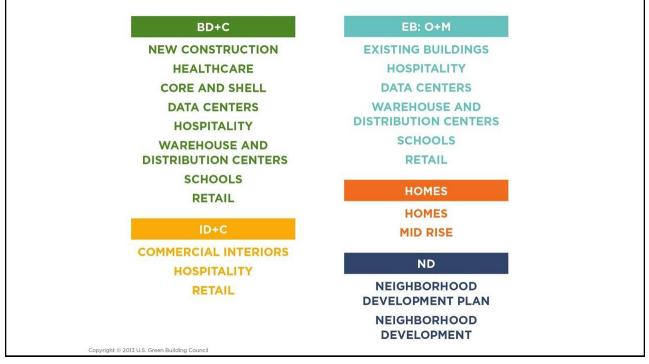




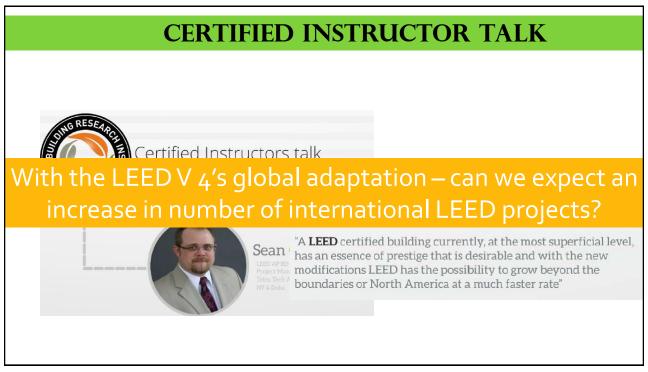






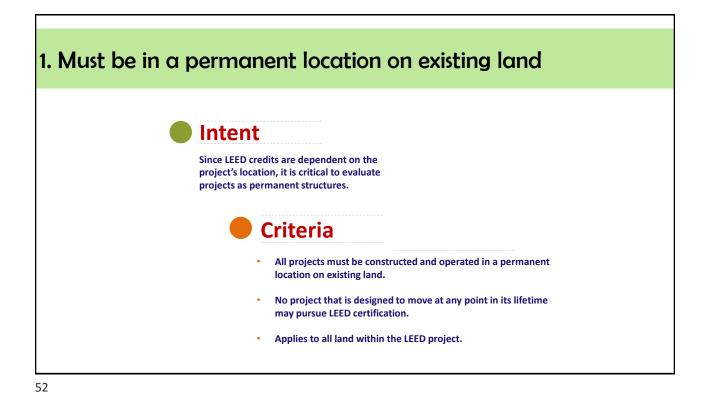


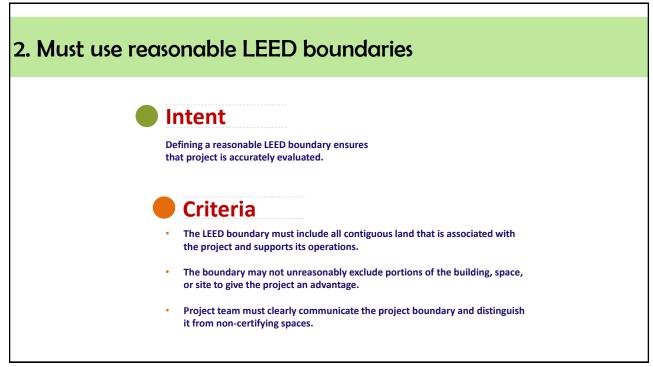
Top 10	OCountries and Regions for LEE	D in 2021			
Rank	Country	Project count	Square Feet	Square Meters	0
1	Mainland China	1,077	152,325,125.75	14,151,480.95	12
2	Canada	205	34,530,920.95	3,208,030.63	
3	India	146	30,337,364.12	2,818,436.08	
4	Republic of Korea	42	16,768,269.12	1,557,824.68	
5	Spain	100	16,107,100.54	1,496,400.05	
6	United Arab Emirates	73	13,733,832.33	1,275,916.01	
7	Brazil	89	13,366,776.03	1,241,815.33	
8	Italy	106	12,543,738.44	1,165,352.56	1
9	Mexico	47	10,285,729.57	955,576.47	
10	Taiwan, China	31	9,619,570.52	893,688.21	

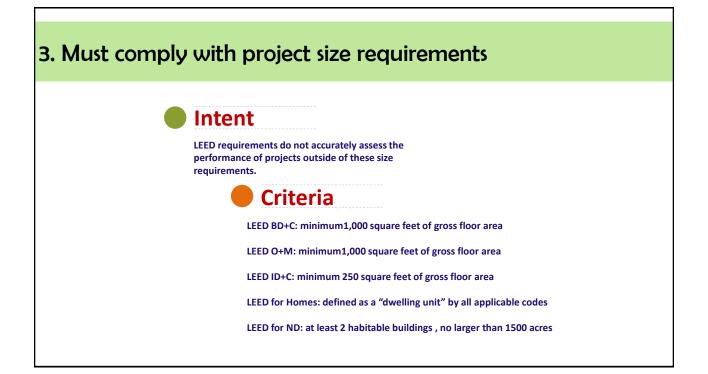








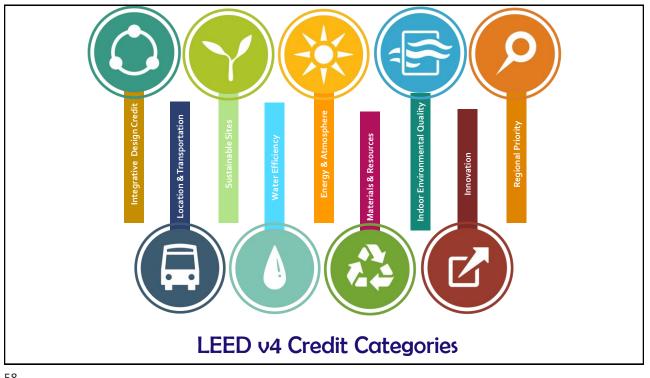


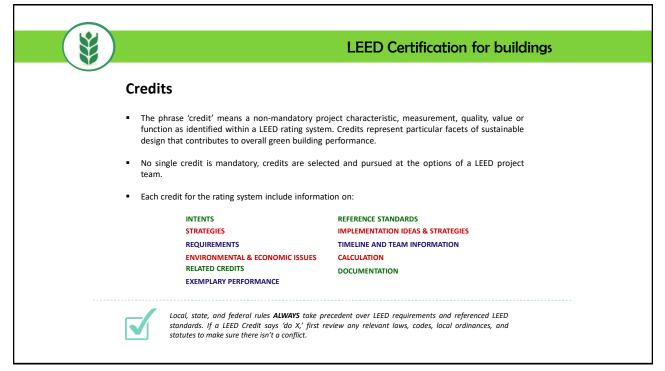




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- > C O	leedonline.com/projects	아 순 ☆ 🖸 🔗 🛛 🛦 🗆 🛚
GBRI Admin 📃 G	881 Other 📕 Marketing 📕 Website 📕 Zoho 📕 News 📕 i-Believe 📕 School 🧃	🥐 Pandora 📕 Education 📕 Market Research 📕 MCSS 📕 Grants 📕 Personal
	Projects	Jesiln Varghese
	Projects [24 Jan 2022, 06:35 anj Michel Francis shanged ISS110: Heat Island Reduction credit status from attempted" to 'Mitempted' in Individual Project 1000544035.	
	[24 Jan 2022, 06:38 am] Michel Francis shanged 'SS110: Heat Island Reduction' credit status from	am Not Projects Blocks is from Portfolios
	[24 Jan 2022, 06:38 amj Michael Francis shanged: ISS110: Heat Island Reduction: credit status from attempted" to 'Mismpled' in Individual Project 1000044035. [24 Jan 2022, 06:10 amj Michael Francis changed: LT110: Reduced Parking Footprint: credit status	sm Not Projects Blacks s from Portfolios Cancusos us from Homes
	[24 Jan 2022, 06:38 amj Michael Francis shanged: ISS110: Heat Island Reduction credit status from attempted" to 'Attempted' in Individual Project 1000644035.	m Not Projects Blocks stars Portfolios Cancusos us from Homes Cities



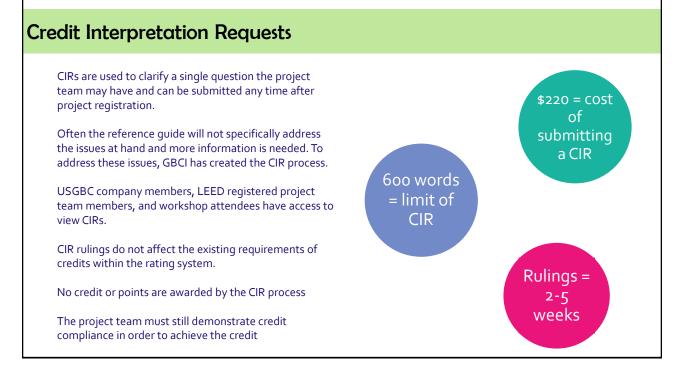




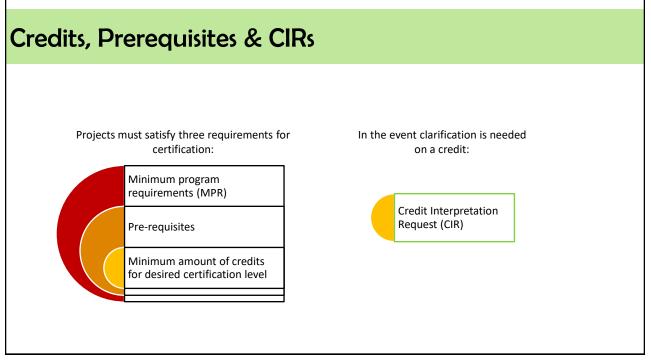
	LEED Certification for building			
D	re-requisites			
•	Prerequisites represent that key criteria that define green building performance.			
•	Failure to meet any prerequisite will render a project ineligible for certification.			
	SUSTAINABLE SITE PREREQUISITE 1 – CREATE A CONSTRUCTION ACTIVITY POLLUTION PREVENTION PLAN			
S	WATER EFFICIENCY PREREQUISITE 1 – REDUCE OVERALL WATER CONSUMPTION BY 20% (COMPARED TO BASELINE)			
mple	ENERGY & ATMOSPHERE PREREQUISITE 3- ZERO USE OF CFC-BASED REFRIGERANTS			
Examples	MATERIALS AND RESOURCES PREREQUISITE- COLLECT AND STORE RECYCLABLES			
	INDOOR ENVIRONMENTAL QUALITY 1- PROHIBIT SMOKING			



					BOORIDI -
	Internative present	POSSIBLE: 1	۵	MATERIAL & RESOURCES	POSSIBLE: 1
	Integrative process	1	-	Storage and collection of recyclables	REQUIRE
				Construction and demolition waste management planning	REQUIRE
	LOCATION & TRANSPORTATION	POSSIBLE: 16		Building life-cycle impact reduction	
-	LEED for Neighborhood Development location	16		Building product disclosure and optimization - environmental product declarations	:
	Sensitive land protection	1		Building product disclosure and optimization - sourcing of raw materia	uis (
	High priority site	2		Building product disclosure and optimization - material ingredients	
	Surrounding density and diverse uses	5		Construction and demolition waste management	
	Access to quality transit	5		e a los de fort and de montrer in doce managemente	
	Bicycle facilities	1			
	Reduced parking footprint	1	6	INDOOR ENVIRONMENTAL QUALITY	POSSIBLE: 10
	Green vehicles	1		Minimum IAQ performance	REQUIRE
				Environmental tobacco smoke control	REQUIRE
	SUSTAINABLE SITES	POSSIBLE: 10		Enhanced IAQ strategies	
U	Construction activity pollution prevention	REQUIRED		Low-emitting materials	
	Site assessment	1		Construction IAQ management plan	
	Site development - protect or restore habitat	2		IAQ assessment	
	Open space	1		Thermal comfort	
	Rainwater management	3		Interior lighting	
	Heat island reduction	2		Daylight	1
	Light pollution reduction	1		Quality views	
		-		Acoustic performance	
	WATER EFFICIENCY	POSSIBLE: 11		INNOVATION	POSSIBLE: (
	Outdoor water use reduction	2	R	Innovation	POSSIBLE.
	Indoor water use reduction	6		LEED Accredited Professional	
	Building-level water metering	REQUIRED		LEED Accredited Professional	
	Cooling tower water use	2			
	Water metering	1	(P)	REGIONAL PRIORITY	POSSIBLE: 4
	-			Regional priority	
ß	ENERGY & ATMOSPHERE	POSSIBLE: 33			
V	Fundamental commissioning and verification	REQUIRED		TOTAL	110

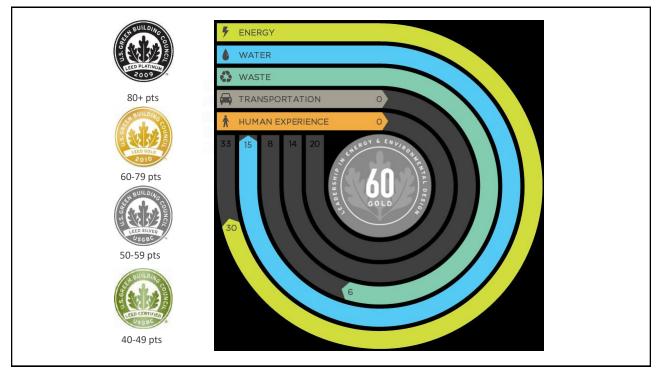


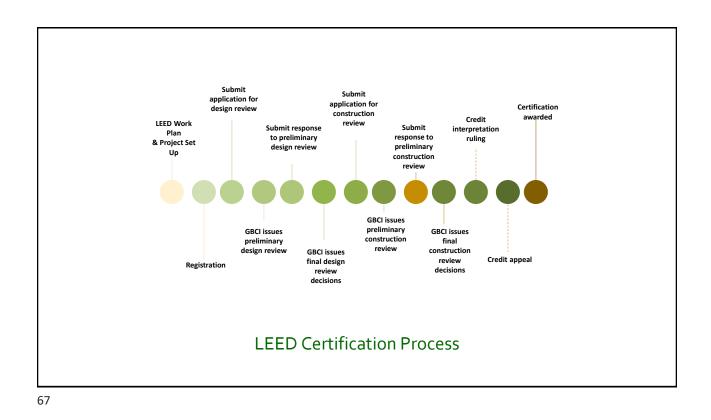








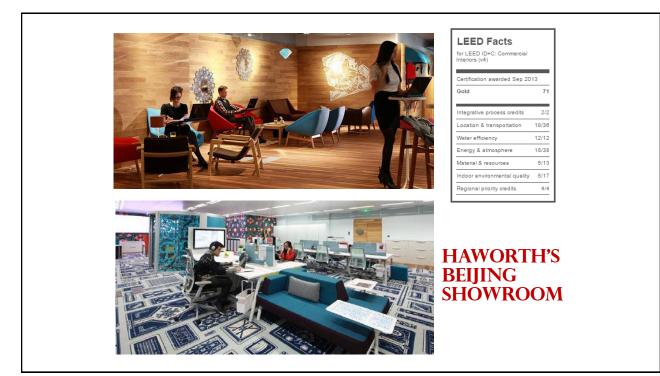


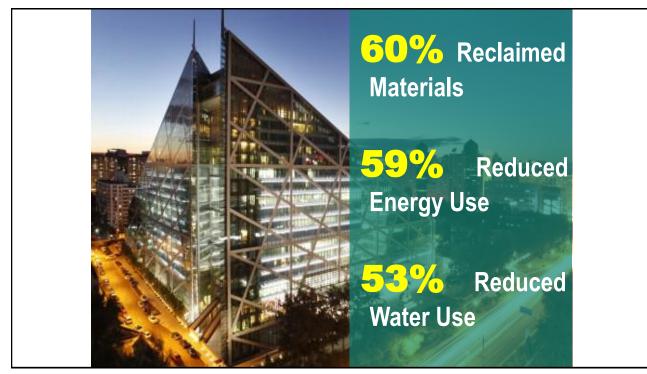


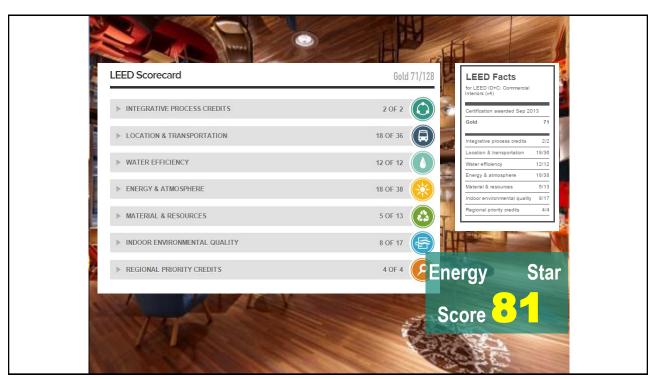


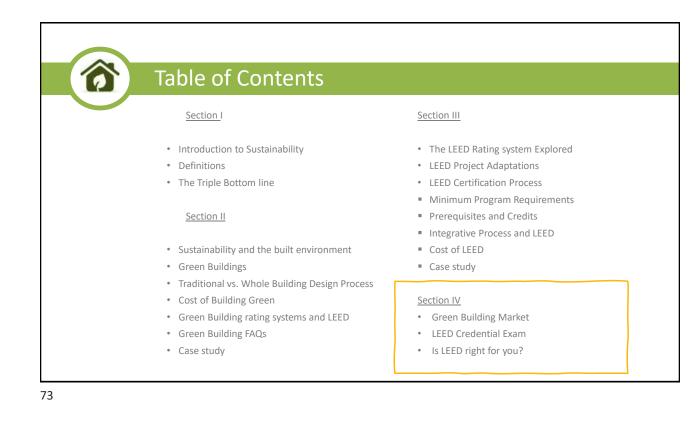


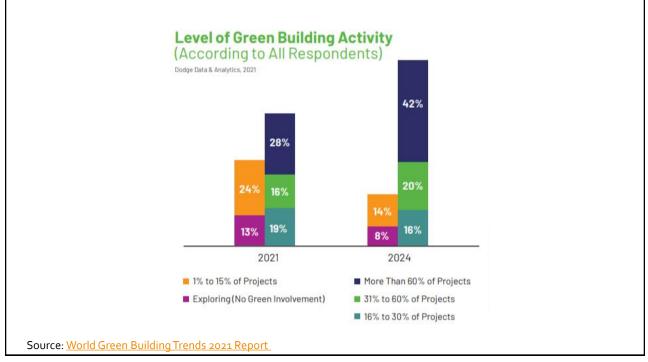
LEED V4 CASE STUDY – HAWORTH'S BEIJING SHOWROOM











So What's Driving Green Building?

Financial Benefits of Building Green, Compared With Traditional Buildings

Dodge Data & Analytics, 2021

	New Green Buildings	Green Renova- tion/Retrofit
Average Reduction in Operating Costs in Next 12 Months	10.5%	11.5%
Average Reduction in Operating Costs in Next 5 Years	16.9%	17%
Average Increase in Asset Value (According to Owners/Investors)	9.2%	<mark>9.1</mark> %

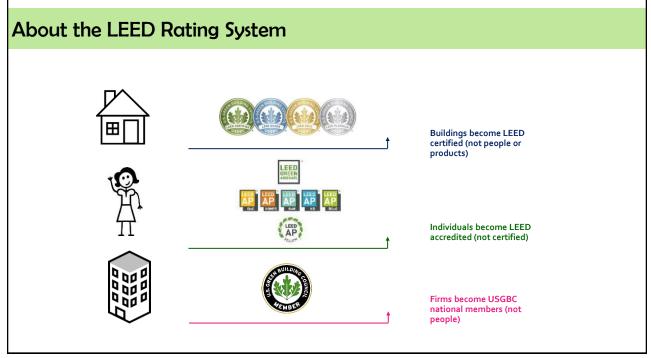
Top Triggers for Increasing Green Building Selected by One Quarter or More Respondents Dodge Data & Amaptrice, 2021

Owners/Investors	Architects/Engineers/Contractors
1. Lower Operating Costs	1. Client Demands
2. Right Thing to Do	2. Environmental Regulations
3. Healthier Buildings	3. Right Thing to Do
4. Internal Corporate Commitment	4. Healthier Buildings
5. Environmental Regulations	5. Lower Operating Costs

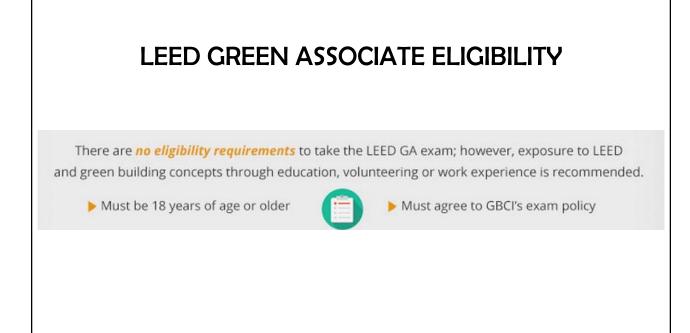
Most Important Business Benefits of Green Building Dote: Data & Analytics. 2021

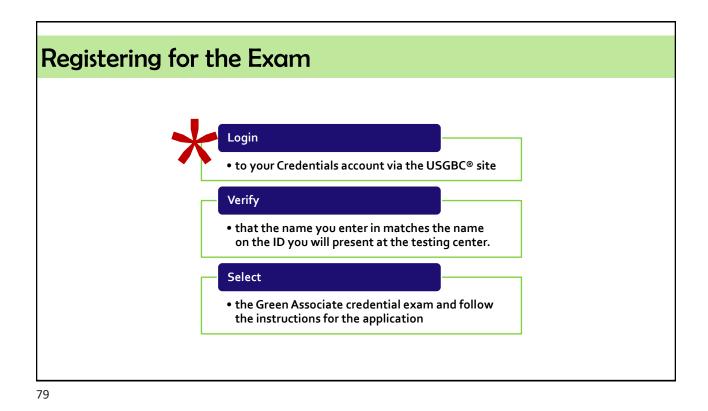


Source: World Green Building Trends 2021 Report







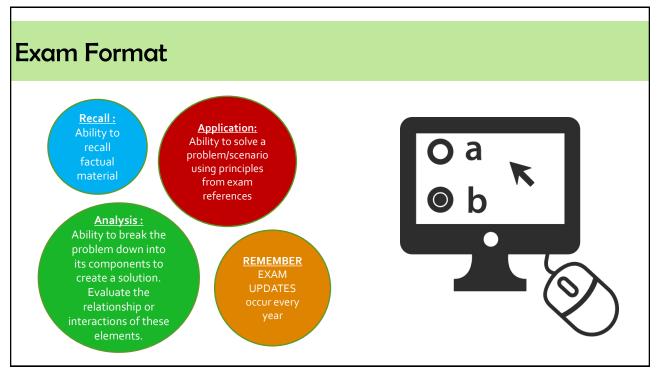






- Exam fees are nonrefundable
- Scheduled through USGBC credential account
- Test taken at Prometric Testing Center or online through ProProctor



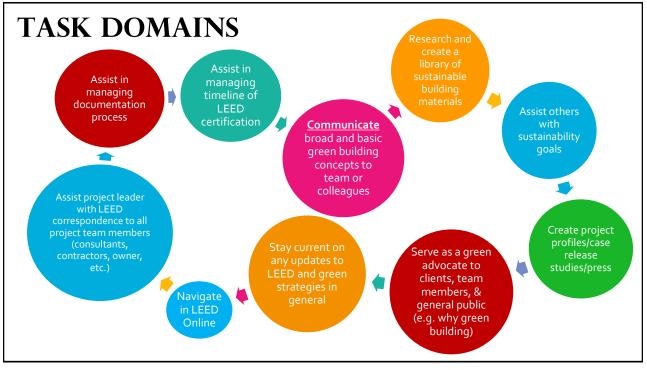


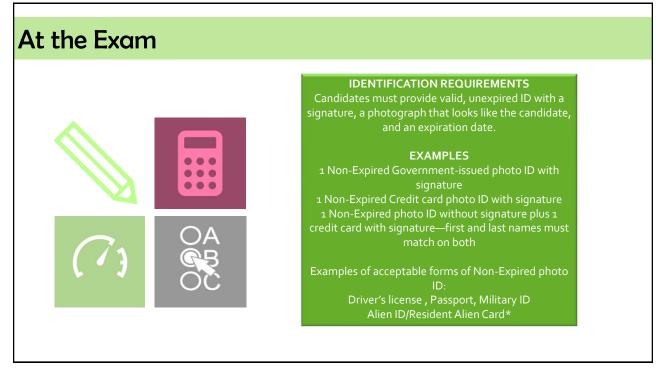
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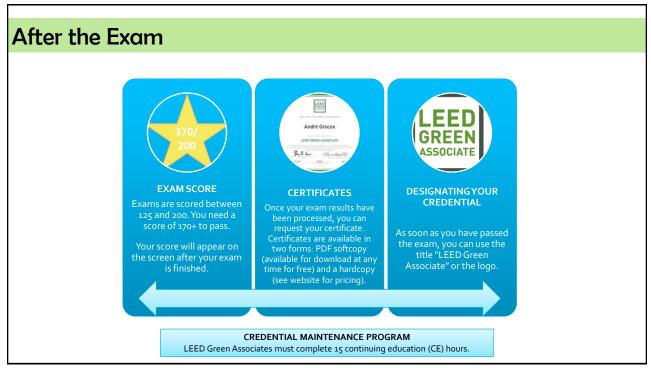
TASK domains

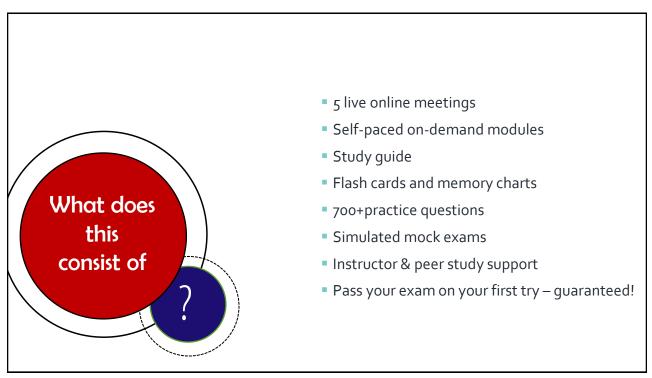
Knowledge Domains

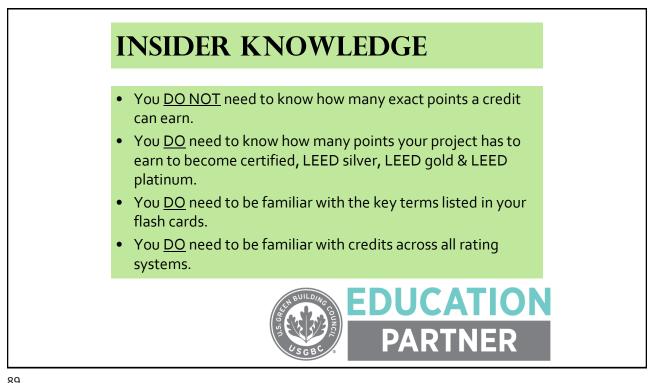
LEED Process - 16 Questions Integrative Strategies - 8 Questions Location & Transportation - 7 Questions Sustainable Sites - 7 Questions Water Efficiency - 9 Questions Energy & Atmosphere - 10 Questions Materials & Resources - 9 Questions Indoor Environmental Quality - 8 Questions Project Surroundings & Public Outreach - 11 Questions



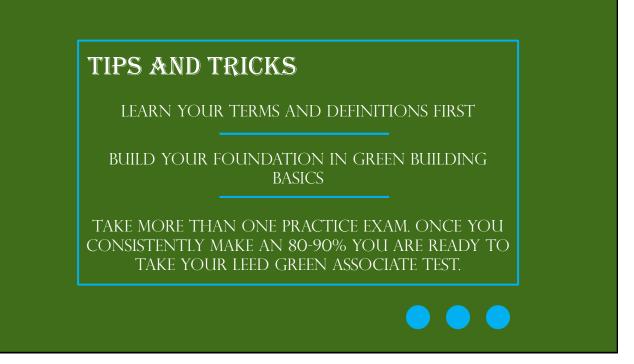












	5	WEEK ROADMAP
•	Topics Covered:	Introduction to Sustainability & LEED + LEED Green Associate Exam Overview
1	After Session:	 Join our WhatsApp study group. Ensure you have access to your GBRI on-demand account. Create a free USGBC account if you do not already have one. Schedule your LEED Green Associate Exam - we suggest taking your exam 2-4 weeks after our live session ends. Study your Key Term Flashcards & review Study Guide, taking notes as necessary. Take section quiz - Introduction to Sustainability & LEED.
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