



**ADVANCED ENERGY MODELING FOR LEED
ONLINE TRAINING COURSE**

KRISHNAJI PAWAR, LEED AP BD+C, GSAS CGP, ISO 14001:2015, GCP
ENERGY SPECIALIST CURRICULUM





**LEED INTERPRETATIONS
FOR ENERGY PROFESSIONALS**

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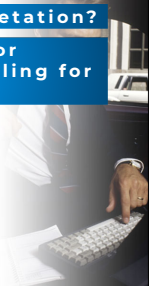
WHAT SHOULD YOU LEARN





What is a LEED interpretation?

LEED interpretations for
Advanced Energy Modeling for
LEED



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Topic	Related Systems or Processes (GDS, ERP, CRM, etc.)	Business Processes	Description	Topic	Related Systems or Processes (GDS, ERP, CRM, etc.)	Business Processes	Description
Business Processes	CRM (Customer Relationship Management)	Customer Relationship Management	Processes for managing customer interactions and data across the organization.	Product Management	Product Information System (PIS)	Product Information Management	Processes for managing product data, specifications, and lifecycle.
	ERP (Enterprise Resource Planning)	Enterprise Resource Planning	Processes for integrating core business processes like finance, HR, and supply chain.		CRM (Customer Relationship Management)	Customer Relationship Management	Processes for managing customer interactions and data across the organization.
	HRM (Human Resource Management)	Human Resource Management	Processes for managing employee data, recruitment, and performance.		ERP (Enterprise Resource Planning)	Enterprise Resource Planning	Processes for integrating core business processes like finance, HR, and supply chain.
	SCM (Supply Chain Management)	Supply Chain Management	Processes for managing the flow of goods and services from suppliers to customers.		SCM (Supply Chain Management)	Supply Chain Management	Processes for managing the flow of goods and services from suppliers to customers.
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Topic	Rating System and LEED Interpretation (CIRI Dates)	Summary	Description
Process Energy (continued)			
Data center	LC-2.2 11/14/2009	Describes requirements for documenting process energy savings from use of server virtualization technology.	Data centers may use server virtualization technique to reduce energy consumption. Server virtualization technique replace multiple servers with one large, high-performance server. This technique reduces the number of servers. As a result, savings from technology, using cooling use of exceptional capital costs. Further supporting documentation should address all assumptions made in calculations and include detailed data, any actual measurements taken for verification, and other pertinent information.
	HC-2009 11/20/09	Clarifies that server power must be included in energy neutral.	For data centers that also contain office space, exception G31100 from ASHRAE 2009-2009 is applicable, but server power must be included in model. Process load energy reduction must be included in exception calculation method.
Refrigerated warehouse	LC-2.2 11/14/2009	Clarifies that refrigerated warehouses are therefore not considered as energy neutral.	ASHRAE 2009-2004 (2007) does not apply to refrigerated warehouses and therefore does not prescribe any minimum energy requirements for these spaces. Because energy and uses must be included in ASHRAE 21 calculations, refrigerated warehouse portion of project must be included as energy neutral.
Tenant Requirements			
Energy efficiency measures in tenant guidelines	CS-3.0 10/28/2008 (2/4/2008)	Clarifies that efficiency improvements in tenant guidelines can and should be included in proposed model.	Whether energy efficiency measures in tenant guidelines should be modeled in proposed design depends on what items are under owner's control. Efficiency improvements in tenant guidelines can be modeled in proposed model. proposed model; efficiency improvements mandated by laws and codes can be included in addition. Efficiency measures must be strictly enforced and be part of tenant lease.

