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ENERGY AUDIT SPECIALIST
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welcome to
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ENERGY AUDITS OVERVIEW
ONLINE PROFESSIONAL COURSES LED BY THE WORLD'S TOP SPECIALISTS
ONLINE TRAINING BY KRISHNAJI PAWAR
LEED AP(BD+C),GSAS CGP,GCP,ISO 14001
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MODULE 5

Energy Assessment and Audit Professional Certification

KRISHNAJI PAWAR - CEO & FOUNDER

LEED AP(BD+C),GSAS CGP,GCP,ISO 14001

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BUILDING ENERGY ASSESSMENT OVERVIEW

An energy auditor conducts an assessment and examination of the energy utilization patterns within a commercial or institutional establishment, identifying potential areas for energy conservation and providing suggestions on how to optimize or decrease consumption.

Learning Objectives

- Introduction
- Principles and Concepts of Energy Assessment
- Types of Energy Audits or Assessments
- Role of an Energy Auditor or Manager
- Energy Assessment and Audit Professional Certification
- Benefits of Energy Audits or Assessments
- Summary and Resources

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INTRODUCTION

- Energy Auditors' Role in Energy Efficiency Assessments
- Assess energy efficiency in large buildings and industrial facilities.
- Cover systems, occupancy, operations, maintenance, and code compliance.
- Provide detailed survey results, risk mitigation analysis, implementation plans, and investment-grade analysis.
- Work to predefined codes and standards like ASHRAE Standard 211-2018.

WHO ARE CERTIFIED ENERGY AUDITORS OR BEAP OR CEA?

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- Evaluate and analyze facility energy use.
- Identify energy conservation opportunities.
- Recommend reduction or optimization of consumption.
- Validate energy auditor experience and knowledge.
- Specialize in energy efficiency upgrades to buildings and systems.
- Conduct audits and assessments in government buildings.





CEA CERTIFICATION OVERVIEW



- CEA Certification Overview
- Leading global certification for energy auditing.
- Gains industry and peer recognition.
- Demonstrates understanding of energy auditing principles, practices, technologies.
- Increases professional standards in energy efficiency and management.

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CEA CERTIFICATION OVERVIEW+



- Educates and qualifies individuals in energy optimization.
- Gains industry and peer recognition.
- Demonstrates understanding of energy auditing principles, practices, and technologies.
- Increases professional standards in energy efficiency and management.

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WHO RECOGNIZES OR ACCREDITS THE CEA PROGRAM?



CEA® is ISO IEC 17024 accredited by Entidad Nacional de Acreditación (ENAC) and American National Standards Institute (ANSI)

ANSI Accredited Program
PERSONNEL CERTIFICATION

ENAC
CERTIFICACIÓN
Nº 22/C-PE025

CEA® is a US Department of Energy, Better Buildings Workforce Guidelines recognized programs.

Better Buildings
U.S. DEPARTMENT OF ENERGY
RECOGNIZED PROGRAM
MEETS U.S. DEPARTMENT OF ENERGY GUIDELINES

The International CEA® program is recognized by the UK's Energy Savings Opportunity Scheme (ESOS).

Energy Savings Opportunity Scheme

CEA® is recognized for Ireland's Energy Audit Scheme.

seai SUSTAINABLE ENERGY AUTHORITY OF IRELAND

CEA® is required under United Arab Emirates ESCO accreditation scheme.

حكومة دبي
GOVERNMENT OF DUBAI

RSB FOR ELECTRICITY & WATER

CEA® is recognizedby the Saudi Energy Efficiency Center (SEEC).

كفاءة
المركز السعودي لكفاءة الطاقة
Saudi Energy Efficiency Center

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OVERVIEW OF CEA ELIGIBILITY REQUIREMENTS



- Bachelor's degree or Professional Engineer (PE) or Registered Architect (RA) with 3+ years work experience.
- 4-year unrelated Bachelor’s degree with 5+ years work experience.
- 2-year associate degree with 5+ years work experience.
- 10+ years related work experience.
- Current Certified Energy Manager (CEM).

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CEA CERTIFICATION EXAM KNOWLEDGE DOMAIN

Body of Knowledge		Percent of Exam
1	Developing an Energy Audit Strategy & Plan	9% - 13%
2	Energy Use Analysis	7% - 11%
3	Data Collection & Analysis	8% - 12%
4	Economic Analysis	7% - 11%
5	Lighting Systems	6% - 8%
6	Heating, Ventilation & Air Conditioning Systems	12% - 18%
7	Domestic Hot Water Systems	5% - 7%
8	Motors & Drives & Compressed Air Systems	8% - 12%
9	Building Envelope	6% - 8%
10	BAS, PAS and EMCS	6% - 8%
11	Alternative Generation & Storage	4% - 6%
12	Transport	3% - 5%



CERTIFIED ENERGY AUDITOR - CEA EXAM QUESTION BANK



The Certified Energy Auditor-CEA Exam Question Bank, along with the 600-question CEA Practice Exam, is a valuable resource for professionals in energy management and service sectors to create a personalized study strategy for their professional development goals.

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SIMULATION EXAMS FOR AEE'S CEA EXAM

- Assess knowledge before final exam.
- Test questions similar to actual exam questions.
- Over 600 questions in five mock exams ranging from easy to expert.
- Understand reasoning behind each question and answer for restudy or revision.
- Cover CEA Exam Knowledge Domains.
- Familiarize with CEA knowledge domain and terminology.
- Ensure exam pass on first attempt.
- Provide direct explanation for questions.
- Includes 181+ key terminology and study flash cards.





CERTIFIED ENERGY AUDITOR - CEA EXAM PREP



- Complete online course for building energy assessment professionals.
- Includes 120-question CEA Practice Exam.
- Unique tools for creating customized study plans.
- Aims to help professionals achieve professional development goals.

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CERTIFIED ENERGY AUDITOR - CEA EXAM QUESTION BANK

On-demand Learning Courses and Exam Question Banks





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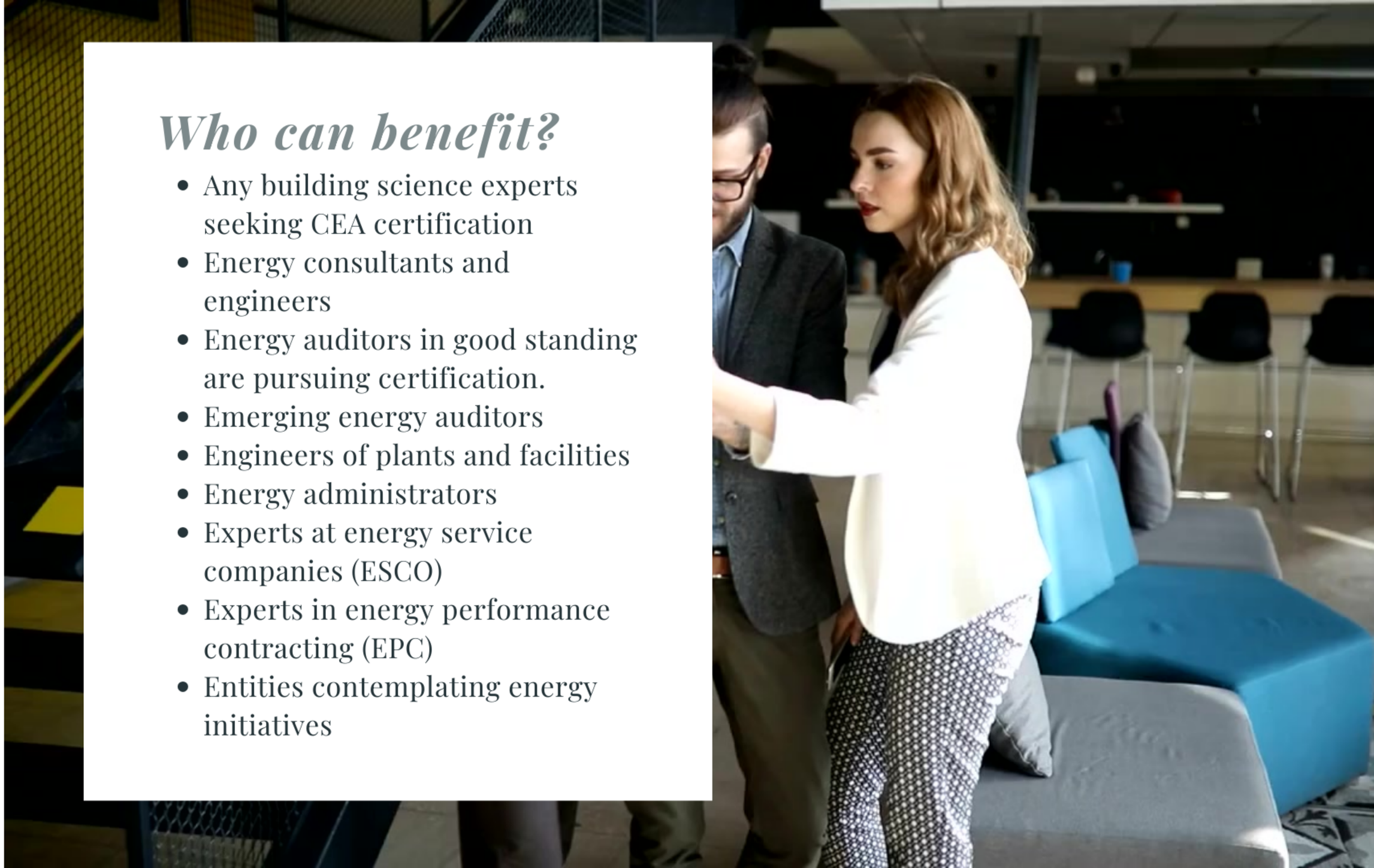
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Learning Objectives

- More than 600 questions are available in five mock exams ranging from easy to hard to specialist.
- Understand each question and answer's reasoning and related knowledge area to restudy or revise.
- You will learn energy efficiency and management terms.
- CEA Exam Flash Cards: 200+ Terms and Concepts!
- Energy Auditor: Engineering Equations



Who can benefit?

- Any building science experts seeking CEA certification
- Energy consultants and engineers
- Energy auditors in good standing are pursuing certification.
- Emerging energy auditors
- Engineers of plants and facilities
- Energy administrators
- Experts at energy service companies (ESCO)
- Experts in energy performance contracting (EPC)
- Entities contemplating energy initiatives

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Benefits of our simulation exams

- Before taking the Certified Energy Auditor (CEA) Exam, review your knowledge.
- There are more than 600 questions covering the CEA Exam Knowledge domain spread across five practice exams.
- Learn the rationale behind each question and answer, as well as the pertinent review material.
- The examination must be passed on the first attempt.
- Review the flashcards for the AEE's CEA exam.
- CEA_Engineering and HVAC Design Equations





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We develop a global community of experts in sustainability, energy audit and management, commissioning, climate change, GHG accounting, and GHG emission management who practise to the highest standards.

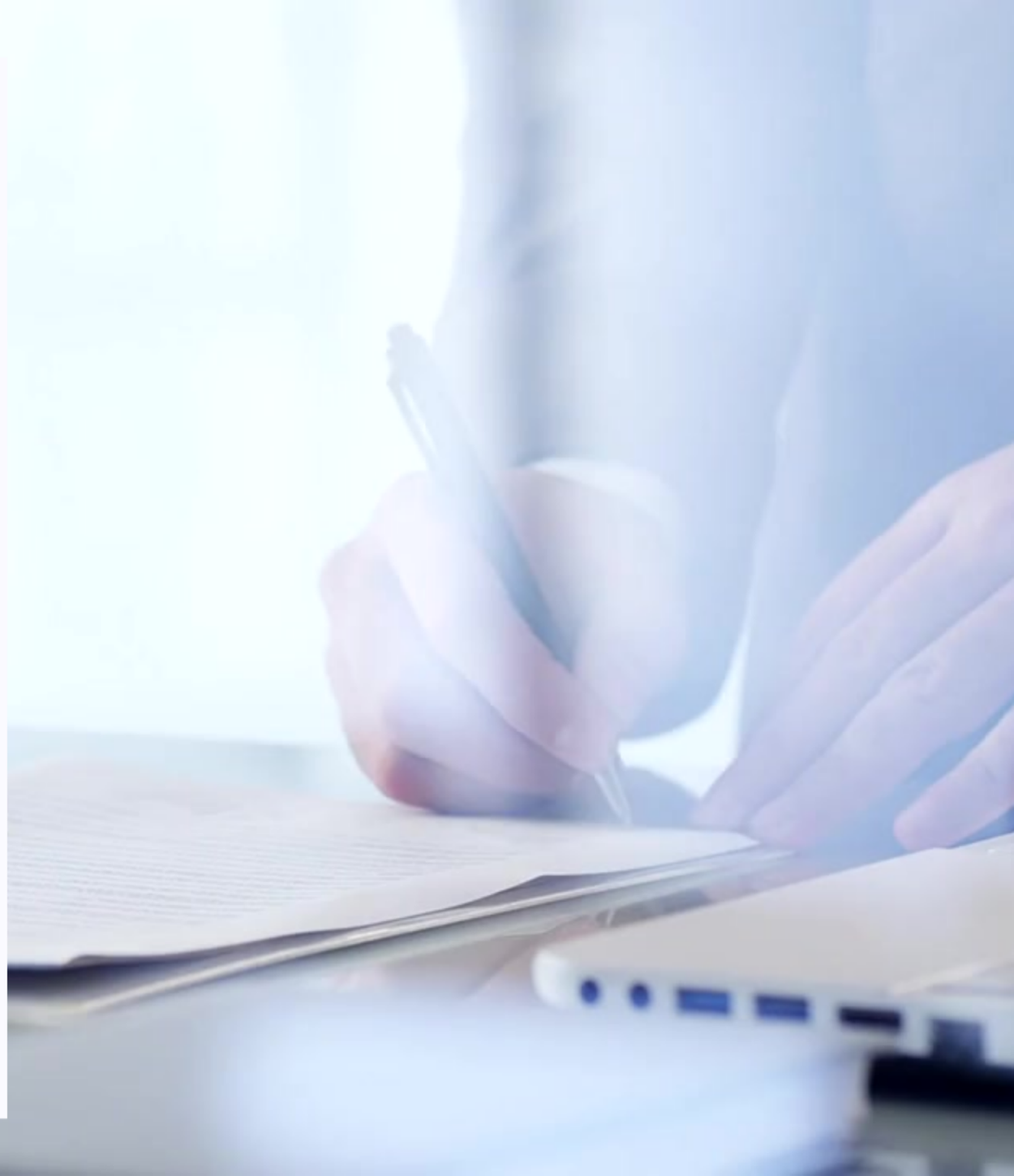


Leadership and Coaching Training

Beyond Smart Cities is the world’s first Green Technology Marketplace, connecting millions of Sustainability, Green Building, Energy, commissioning, and technology specialists and manufacturers with independent talent around the globe.infinite possibilities exists.”

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