



Sustainable Energy and Net Zero Cities

Explores environmentally responsible urban living through clean energy and innovative planning, focusing on reducing greenhouse gas emissions and enhancing energy efficiency to create healthier, sustainable cities



People and Data-Built Cities

The event focuses on human-centered design and data-driven technologies to create smarter urban environments. By using real-time data and prioritizing citizens' needs, cities aim to enhance public services, improve mobility, optimize resources, and foster inclusive, livable spaces.



Resilient infrastructure and evolving Cities

The event explores how urban areas can adapt to increasing populations, climate challenges, and technological changes. It focuses on creating durable and flexible infrastructure systems that can withstand disruptions while promoting sustainable growth and enhancing quality of life in cities.



Endorsed by:



THE COSTECH ANNUAL

SMARTCITY

CONFERENCE 2025





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3 Conferences in 3 Major Cities

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**Sustainable Energy
and Net Zero Cities**

Port Harcourt

4th - 5th, June 2025

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**Resilient
Infrastructure
and Evolving Cities**

Abuja

3rd - 4th, September 2025

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**People and
Data-Built Cities**

Lagos

3rd - 4th, December 2025

Costech Smart City Conference

Journey So Far

Since its inception in 2020, the Costech Annual Smart City Conference has been a pivotal platform for exploring and addressing the dynamic challenges and opportunities associated with urbanization in Nigeria and beyond.

Over the years, this conference has brought together experts, innovators, and leaders from various industries to share insights, foster collaborations, and drive forward-thinking solutions for smart city development.

Event Background

2020: The inaugural virtual event introduced broad smart city concepts, setting a strong foundation for future conferences.

2021: Focused on urban safety with the theme "Opportunities and Challenges for Safety and Security in Nigerian Cities," highlighting strategies for secure, sustainable cities.

2022: Explored "Smart Transportation & Security," emphasizing the link between efficient transportation and urban safety.

2023: Addressed AI's role in construction, showcasing how it enhances infrastructure development and sustainability.



2024: Centered on "Digital Built & Future Cities," featuring AI in urban planning, digital twins, and the Smart City Student Design Competition.

Each edition underscores collaboration, innovation, and knowledge-sharing, driving smart, sustainable urban development. The 2025 conference will build on this legacy to shape the cities of tomorrow.



Year 2025 and its Objectives



Innovate

The conference will provide a platform for you (experts, policymakers, and stakeholders) to discuss innovative strategies and technologies to address pressing urban challenges.

Empower

Interactive workshop sessions will offer participants hands-on experience with tools, technologies, and methodologies for building smart and sustainable cities. These sessions are designed to empower attendees with practical skills and actionable knowledge.

Collaborate

A dedicated exhibition space will allow you (innovators, startups, and organizations) to showcase their solutions addressing critical urban issues. It will serve as a hub for networking, inspiration, and potential collaborations to drive impactful change

Be Involved in Smart City



Webinars and PreConference Trainings

A series of webinars will be organized to build up to the workshop sessions, offering insights into the conference themes. These webinars will serve as an introduction to the practical skills and technologies that will be explored in the workshops, allowing participants to prepare for hands-on activities and deepen their understanding of smart city solutions.

Designathon 2025

What's the Designathon?

- Two-day international online design challenge for engineering and industrial design students
- Boost your Autodesk Fusion skills and learn about key work flows
- Compete against other student teams in the Designathon challenge
- Learn and compete as a team (2-3 students on each team)

<https://knowledgepoint.com/autodesk/designathon-2025/>

Costech Internship Program

Costech will offer internship opportunities for students, allowing them to work on real-world smart city projects. This hands-on experience will provide valuable insights into the challenges and solutions that will be discussed at the conference, while also giving students the chance to apply their knowledge in a practical environment.

Our Speakers



Olamide Ogunlola

Director, Costech
Host



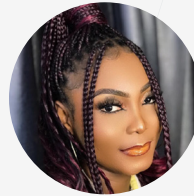
Tala Nasrallah

Marketing manager,
Autodesk
Organising Team Lead



Aderinola Adefemi

Director, Costech
Host



Tessy Olushola

Marketing Manager, Costech
Moderator

Conference Chairman



Dr. Zulfikar Adamu

Associate Professor of Strategic
IT in Construction

Keynote Speech:
**Blueprints for Sustainable
Urban Energy Systems**



Engr. Idaeresoari Harriet Ateke

FNSE, FNSChE
Chairman, Nigerian Society of Engineers
(NSE) Port Harcourt Branch

Guest Speaker



Gary Mansfield

Sales Executive,
Autodesk

Topic: **AI-Powered Energy
Optimization**



Arek Barszcz

Application Engineer,
Bentley systems.

Topic: **The Path to Net Zero:
Transforming Cities and Industries
with Technology, Innovation,
Collaboration**



Kelvin Chukwuka

Business Development Manager,
Huawei

Topic: **Sustainable Selection for a
Renewable Future**



Emmanuel Maenda

Project Manager/BIM Specialist
Autodesk

Topic: **How Autodesk Tools Enable
Net Zero Building Design**



Joseph Effiong

Application Manager,
Costech

Topic: **Scan to BIM Technology:
Bridging the Physical &
Digital World**

Workshop Facilitator



Morning Break-out Session 10:00 AM - 12:00 PM

Mastering Energy Optimization with Autodesk Insight - **Emmanuel Maenda**

Autodesk Insight integrates with Revit to offer data-driven insights for better building performance. This course helps you use Insight's energy analysis to design sustainable, energy-efficient buildings from the conceptual stage.

What you'll learn:

- Understand the basics of Autodesk Insight and how it integrates with Revit for building performance analysis.
- Perform energy simulations to evaluate building orientation, envelope, HVAC, lighting, and occupancy impacts.
- Interpret energy dashboards and building performance factors to inform sustainable design decisions.



Morning Break-out Session 10:00 AM - 12:00 PM

Energy Modeling and Optimization - **Bentley**

Bentley's energy modeling tools, like OpenBuildings Energy Simulator and Hevacomp, help engineers and architects analyze and optimize building energy performance. This course covers using Bentley software to create energy models that meet sustainability goals and regulatory standards.

What you'll learn:

- Understand the core principles of building energy modeling and simulation using Bentley tools.
- Learn to create and refine an energy model with OpenBuildings Energy Simulator.
- Simulate energy use, thermal performance, HVAC systems, and building envelope behavior.



Afternoon Break-out Session 12:00 noon - 2:00 PM

Scan to BIM Technology: Bridging the Physical & Digital World - **Joseph Effiong**

Building Information Modeling (BIM) is revolutionizing urban planning and architecture. This course focuses on using BIM Solution to incorporate sustainability into city design from the start, highlighting its modeling, analysis, and data integration features for smarter, greener development.

What you'll learn:

- Understand the role of BIM in sustainable urban planning and how Revit supports it.
- Create site models and master plans in Revit that incorporate land use, transportation, and environmental factors.
- Integrate topography, solar analysis, and climate data to guide sustainable decision-making.

Day 1 - Agenda



10:00 - 10:05 AM

Opening Remarks - **Mr Olamide, Costech**



10:05 - 10:30 AM

"NSE's Drive for Sustainability." - **Engr. Idaeresoari Harriet Ateke**

Explore how NSE is shaping the future of engineering to support resilient, eco-friendly infrastructure.



10:30 - 11:10 AM

"Blueprints for Sustainable Urban Energy Systems" - **Dr. Zulfikar Adamu**

Keynote: Explore innovative strategies for designing cities that meet net-zero energy goals.



11:10 - 11:50 AM

"AI-Powered Energy Optimization" - **Gary Mansfield, Autodesk**

Discover how Autodesk's AI and machine learning solutions enable real-time energy monitoring, predictive maintenance, and smarter resource management.



11:50 - 12:30 PM

"The Path to Net Zero: Transforming Cities and Industries with Technology, Innovation, Collaboration" - **Arek Barszcz, Bentley systems**

Technology, AI, and innovative strategies are reshaping cities and industries to meet net-zero goals. The session will highlight the critical role of Autodesk tools in driving energy efficiency.



1:00 - 1:40 PM

"Sustainable Selection for a Renewable Future"
- **Kelvin Chukuwuka, Huawei**

Highlight sustainable, locally sourced materials that reduce energy use.



1:40 - 2:20 PM

"How Autodesk Tools Enable Net Zero Building Design"
- **Emmanuel Maenda**

Showcase Autodesk's Revit, Insight, and other tools in energy modeling and optimization.

Day 2 - Agenda



10:00 - 12:00 PM

"Mastering Energy Optimization with Autodesk Insight" - Emmanuel Maenda

Learn how to use Autodesk Insight for energy modeling, daylighting analysis, and HVAC optimization to design net-zero energy buildings. (Workshop)



10:00 - 12:00 PM

"Energy Modeling and Optimization" - Bentley

Digitaltwin optimization to design net-zero energy buildings. (Workshop)



12:00 - 2:00 PM

"BIM for Sustainable Urban Planning" - Joseph Effiong, Costech

Discover how Building Information Modeling (BIM) in Revit supports energy-efficient urban planning and infrastructure development. (Workshop)



2:00 - 2:30 PM

"Closing remarks" - Mr Adefemi, Costech

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Why should be a part of Smart City

The Costech Smart City Conference 2025 is a unique platform for professional bodies in Nigeria to lead discussions on critical urban development themes like Sustainable Energy, Resilient Infrastructure, and Data-Built Cities. By participating, your organization can influence policies and showcase its expertise in shaping Nigeria's urban future.

The conference offers an opportunity to highlight your impact through exhibitions, showcasing groundbreaking projects and success stories. It also fosters collaboration with industry leaders and policymakers, enabling meaningful partnerships to drive sustainable urban solutions.

Your members can gain practical skills through workshops and interactive sessions, equipping them with tools to implement smart city technologies. Additionally, by engaging in initiatives like competitions and internships, your organization can mentor emerging talent and inspire the next generation of innovators.

Aligning with Costech positions your organization as a thought leader in smart city development, enhancing its credibility and visibility. Join us to help shape the future of Nigeria's cities.



Further
information

Phone +234 7030756010

Website <https://www.costechcomputers.com.ng>

Email smartcity@costechcomputers.com.ng

Address Lagos, Abuja, Port Harcourt

Event Dates

Port Harcourt - June 4 and 5

Abuja - September 3 and 4

Lagos - December 3 and 4