

# Transforming Life Through Sustainable Innovation

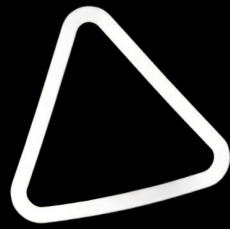
**Dynavance Nigeria Limited and Rochester Institute of Technology Dubai (RITD) Sustainability & Energy Center (SEC) have partnered to drive energy efficiency and sustainability advancements in Nigeria. RITD-SEC, being the expert research and consulting body, is teaming with Dynavance, a renowned Nigerian company to provide services and projects that will impact the energy sector and the sustainability in the built environment. The collaboration focuses on retrofitting residential and office buildings, hospitals, schools, factories etc. with state-of-the-art energy solutions that enhance efficiency, reduce operational costs, and promote environmental sustainability. Furthermore, the initiative will also provide in situ and local grid energy solutions to areas with electricity shortage.**

**Improved Energy Efficiency**

**Enhanced Life Experience**

**Sustainable Future**





**Dynavance**  
LIMITED RC 765 194

## About Dynavance Nigeria Limited

Established in 2008, Dynavance Ltd. is a multifaceted company based in Kano, Nigeria, specializing in general contracting, health services, and energy services.

With a strong commitment to excellence and a track record of success, Dynavance has built a reputation as a reliable and innovative company dedicated to meeting the diverse needs of its clients.

Celebrating over 16 years of innovation and excellence, Dynavance continues to turn visions into reality and pave the way for future breakthroughs.

# RIT

Rochester  
Institute of  
Technology  
of Dubai

## About RIT Dubai

RIT Dubai was established to provide world-class university programs in the United Arab Emirates for students and professionals from the Middle East, North America, Africa, and Southeast Asia.

The campus is strategically located in the heart of Dubai Silicon Oasis, one of the world's leading centers of advanced electronic innovation and design.

RIT Dubai offers 10 undergraduate (Bachelor) and 8 graduate (Master) programs.

# RIT

Sustainability  
and Energy  
Center



## About the Director, Dr Ghalib Kahwaji

Dr. Ghalib Kahwaji is a distinguished mechanical engineering expert with extensive experience in academia, research, and industry. He currently serves as the Director of the Sustainability and Energy Efficiency Center at RIT Dubai, following his tenure as Chair of the Mechanical Engineering Department from 2011 to 2023. His career spans leadership roles at Abu Dhabi Transmission and Despatch Company (TRANSCO), Al-Gurg Consultants-Dubai, and the University of Mosul, where he also served as Assistant Dean for Research. Holding a Ph.D. from Colorado State University, Dr. Kahwaji has published over 60 papers in energy systems, air conditioning applications, and sustainability, contributing significantly to innovative heat transfer and energy solutions.

Among his contributions in the area of sustainability, Dr Kahwaji established the Sustainability & Energy Center at RIT Dubai University to serve as a beacon for promoting sustainability, provide services to the local industry, demonstrate the application of new technologies and develop/adapt new technologies to solve sustainability and environmental problems in the region. The Positive Zero Lab, part of the center, is now providing ground for testing new technologies from international companies from Europe and the Americas where more than 6 companies so far are present and contributing to the lab.

Dr Kahwaji has won the MENA Green Building Council Research of the year Award 2022 for introducing the geothermal research into air conditioning in Dubai.



3D Printed House: An RIT-SEC project in partnership with 3DXB Group

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### About RIT Sustainability & Energy Center (SEC)

The RIT Sustainability & Energy Center (SEC) at RIT Dubai is dedicated to advancing smart sustainable energy in the UAE. As part of Rochester Institute of Technology's global network, known for its focus on technology and innovation, RIT Dubai integrates world-class education and research. The SEC serves as a hub for sustainability and renewable energy research, supporting faculty across disciplines and enhancing the Master of Engineering program's alternative energy and sustainability concentration. Focused on sustainability, energy efficiency, water, and the built environment, the center empowers researchers, fosters industry collaboration, and contributes to economic and social progress in line with the UN Sustainable Development Goals (2015-2030). Through strategic partnerships with government and sustainability-focused institutions, the SEC drives impactful advancements in the region.



**Vertical Axis Wind Turbine:** An RIT-SEC project in partnership with Ecolibri

#### Services Offered

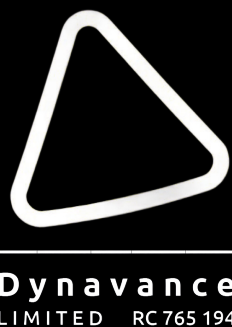
Consultancy Projects: Addressing immediate industry and community challenges.

Short-Term Research: Projects lasting 1-2 years.

Long-Term Research: Initiatives requiring over 2 years of investigation, focusing on cutting-edge theories and applications

# The Partnership

## ROLES AND RESPONSIBILITIES



**Acting as the lead contractor for project execution and construction.**

**Managing logistics, procurement, and on-ground implementation.**

**Ensuring project completion within scope, budget, and sustainability goals.**

**Serving as the technical consultant for project studies, design, and evaluations.**

**Facilitating international collaboration and engaging third-party experts as needed.**

**Overseeing project implementation, supervision, and final handover.**

## Our Commitment to Innovation & Excellence

**"Together, RITD's SEC and Dynavance are pioneering energy transformation across industries, ensuring that users operate at peak efficiency while prioritizing sustainability."**