



## Department of Research and Development

Organizes

An Expert Talk on

# Research in Industrial Applications

Resource Person

**Dr. Vishal Anand A G**

Chair - IEEE IES Bangalore Section Chapter,  
Director of Engineering  
Bloom Energy (I) Pvt Ltd, Bengaluru



 28 September 2024 | 10:00 AM - 12:30 PM

 Online Meeting

### Organizing Committee

**Dr. Vinoth Kumar K**

Professor and Associate Head – R&D  
Advisor – IEEE IES NHCE SBC


**Dr. Revathi V**

Dean R&D

**Dr. Manjunatha**

Principal

  
28/9/2024

  
Dean  
Department of Research and Development  
NEW HORIZON COLLEGE OF ENGINEERING  
New Horizon Knowledge Park, Bellandur Main Road,  
Near Marathahalli, Bengaluru – 560 103



# NEW HORIZON COLLEGE OF ENGINEERING

Department of Research and Development



## Event Report

Title	<b>Expert Talk on “Research in Industrial Applications”</b>	
Department	Research and Development	
Date	From: 28.09.2024	To: 28.09.2024
Time	From: 10:00 AM	To: 12:30 PM
Brief Description (4-5 Lines Max)	<p>Department of Research and Development organized the Expert Talk on Research in Industrial Applications held on 28<sup>th</sup> September 2024, Saturday, between 10:00 AM to 12:30 PM in association with IEEE Industrial Electronics Society Bangalore Chapter and IEEE IES NHCE SBC through online mode (Google Meet). Dr. Vishal Anand A G, Chair - IEEE IES Bangalore Section Chapter and Director of Engineering, Bloom Energy (I) Pvt Ltd, Bengaluru served as Resource Person for this programme. The resource person mentioned about the research in industrial applications is key to addressing current challenges and creating the next wave of innovations. By investing in interdisciplinary research that merges technologies like AI, robotics, material science, and sustainability, industries can stay competitive, increase efficiency, and reduce environmental impact. Attendees were invited to provide feedback through surveys. The feedback is very positive and encouraging. The eminent expert from the industry delivered the lecture and her talk has been very well received by the 39 participants. 39 faculty members are benefitted.</p>	


*Dr. Vishal Anand A G*  
28/9/2024

*Ravi*

Dean  
Department of Research and Development  
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Images

Vishal Anand A G (Presenting)




Energy is a C-Suite Topic for all Industries

10:09 AM | xke-bbos-1sv

Participants: Vishal Anand A G, Revathi V, Dr.V. Agalya, Dr.Sujitha S, gopal kallyaperu..., Raghu Hassan, 6 others, Dr. Vinoth Kuma...

Vishal Anand A G (Presenting)

### Significant Grid Investment is Needed to Achieve Decarbonization Goals



**NREL** National Renewable Energy Laboratory  
"91,000 miles of new high voltage interregional transmission lines by 2035 would be required"<sup>1</sup>

**Department of Energy**  
"47,300 miles of new transmission lines will be required by 2035"<sup>2</sup>

Transmission line projects take 7 years to be federally permitted  
In 2022, only 670 miles of transmission lines were built

<sup>1</sup><https://www.nrel.gov/news/2022/02-22-22/energy-transmission-clean-energy-946558.html>  
<sup>2</sup><https://www.energy.gov/eere/energy-efficiency/energy-efficiency-2022-02-22-22>

10:19 AM | xke-bbos-1sv

Participants: Vishal Anand A G, NAYANA N KUM..., Vernika Singh, Revathi V, karthika ganesh, Surat Pyari Atti, 19 others, Dr. Vinoth Kuma...

Vishal Anand A G (Presenting)

### Hydrogen – Supply and Demand

**Multiple paths to supply hydrogen**

- Green H2: from renewable electricity (& solar thermal)
- Electrolysis: Pink H2 (Nuclear with heat integration)
- Carbon capture and storage: Blue H2 (Natural gas with carbon capture), Gold H2 (Bio gas with carbon capture)

**Multiple sources of hydrogen demand**

- Hydrogen to Power
- Shipping
- DG hydrogen microgrids
- Long haul transport
- Blending into natural gas grid
- Steel
- Industrial feedstock

10:04 AM | xke-bbos-1sv

Participants: Vishal Anand A G, Dr.Poornima G S, nagendra indra, Anitha Nelson, Plyush Kumar Soni, Asha K, 20 others, Dr. Vinoth Kuma...

## Participant details and Feedback for Expert Talk on Research in Industrial Applications dated on 28.09.2024

Sl.No	Timestamp	Username	Name of the Participant	College Name	Category	Department Name	Designation	Topic Coverage in the Session (1 to 5)	Effectiveness in Delivering the Lecture	The learning materials were presented in clear and organized manner.	The experts/presenters were well prepared	The experts/presenters responded to queries of participants satisfactorily	Adequate time was provided for activities	The venue (Online) and other facilities provided were satisfactory	Any other comment/suggestion about the programme
1	2024/09/28 10:30:17 AM GMT+5:30	shivashishgour87@gmail.com	Shivashish Gour	New Horizon College of Engineering	Faculty	MBA	Assistant Professor	4	4	4	4	4	4	4	None
2	2024/09/28 10:30:17 AM GMT+5:30	priyameetkeer@gmail.com	Dr. Priyameet Keer	New Horizon College of Engineering	Faculty	MBA	Associate Professor	5	5	5	5	5	5	5	no
3	2024/09/28 10:31:23 AM GMT+5:30	drdkpblr@gmail.com	Dr. D. Krishna Kumar	New Horizon College of Engineering	Faculty	MBA	Associate Professor	5	5	5	5	5	5	5	Well Organised
4	2024/09/28 10:33:34 AM GMT+5:30	sangeethanhece@newhorizonmidea.edu	Sangeetha.C.N	NEW HORIZON COLLEGE OF ENGINEERING	Faculty	EEE	ASSISTANT PROFESSOR	5	5	5	4	4	5	5	NIL
5	2024/09/28 10:39:23 AM GMT+5:30	dr.s.sujitha@gmail.com	Dr. Sujitha S	New Horizon College of Engineering	Faculty	EEE	Professor	5	5	5	5	5	5	5	-
6	2024/09/28 10:45:31 AM GMT+5:30	shivaprasakshgic@gmail.com	Shivaprasaksh S	New horizon college of Engineering	Faculty	Mechanical engineering	Senior Assistant Professor	5	5	5	5	5	5	5	Good session
7	2024/09/28 10:45:51 AM GMT+5:30	ramachandran@newhorizonmidea.edu	Ramachandra Nank	New Horizon College of Engineering	Faculty	Applied Sciences	Senior Assistant Professor	5	5	5	5	5	5	5	NA
8	2024/09/28 10:46:40 AM GMT+5:30	jayasheel81088@gmail.com	JAYASHEEL KUMAR K A	NEW HORIZON COLLEGE OF ENGINEERING	Faculty	MECHANICAL	ASSISTANT PROFESSOR	4	4	4	4	4	4	4	NIL
9	2024/09/28 10:48:05 AM GMT+5:30	santhoshkrishna1987@gmail.com	Dr. Santhosh Krishna B V	New Horizon College of Engineering	Faculty	CSE	Associate professor	5	5	5	4	5	5	4	Good session
10	2024/09/28 10:50:04 AM GMT+5:30	rahulbhosle22@gmail.com	Rahul B	New Horizon College of Engineering	Faculty	CSE	Asst Prof	5	5	5	5	5	5	5	No
11	2024/09/28 10:52:16 AM GMT+5:30	er.monikakatta@gmail.com	Dr. Monika Gupta	New Horizon College of Engg.	Faculty	Electronics & Communication	Senior Assistant Professor	5	5	5	5	5	5	5	-
12	2024/09/28 10:52:28 AM GMT+5:30	nayanankumar08@gmail.com	NAYANA N KUMAR	NEW HORIZON COLLEGE OF ENGINEERING	Faculty	COMPUTER SCIENCE AND ENGINEERING	ASSISTANT PROFESSOR	5	5	5	5	5	5	5	GOOD INFORMATIVE SESSION
13	2024/09/28 10:52:59 AM GMT+5:30	priyaramachandra3@gmail.com	B.Chamaravapriya	New Horizon College Of Engineering	Faculty	Computer science and Engineering (Data science)	Assistant professor	4	4	4	4	4	4	4	NA
14	2024/09/28 10:55:38 AM GMT+5:30	maramreddy@gmail.com	Raghu Tilak Reddy	New Horizon Engineering College	Faculty	Mechanical engineering		4	4	4	4	4	4	4	Very informative
15	2024/09/28 10:58:36 AM GMT+5:30	mehdaajith@gmail.com	Mehda B	New Horizon Engineering College	Faculty	CSE	Sr. Assistant Professor	5	5	5	5	4	4	4	Was good
16	2024/09/28 11:00:15 AM GMT+5:30	mauseri@gmail.com	Dr. Mausri Bhuyan	New Horizon College of Engineering	Faculty	EEE	Assistant Professor	5	5	5	5	5	5	5	It was an extremely interesting session
17	2024/09/28 11:03:41 AM GMT+5:30	anitha1son24@gmail.com	Anitha A	NHCE	Faculty	EEE	SAP	4	5	4	5	4	4	4	Good



36	2024/09/28 11:28:52 AM GMT+5:30	srinivasbn.nhce@ newhorizonindia.e du	SRINIVAS BABUN	New Horizon College of Engineering	Faculty	Electronics and Communication Engineering	Senior Assistant Professor	5	5	5	5	5	5	5	5	Nil
37	2024/09/28 11:34:18 AM GMT+5:30	padmapriyadesai @gmail.com	Dr. D.D.Padma Priya	New Horizon College of Engineering	Faculty	Mathematics	Senior Assistant Professor	5	5	5	5	5	5	5	5	Good
38	2024/09/28 11:39:07 AM GMT+5:30	karthikaganeh16 @gmail.com	Dr.Karthika M	New Horizon College of Engineering	Faculty	EEE	SAP	5	5	5	5	5	5	5	5	-
39	2024/09/28 11:40:28 AM GMT+5:30	prashanthk@new horizonindia.edu	Prashanth K S	NHCE	Faculty	AS	Professor	4	4	4	4	4	5	4	4	NIL

*Dr. Uthra*  
28/9/2024

*Prashanth*  
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