

**Azadi ka Amrit Mahotsav**  
to commemorate 75 years of progressive Independent India

**REPORT OF THE THIRTEENTH EVENT**

**“Interactive Session with Wind Industry Experts”**

NIWE with the support of MNRE has scheduled sixteen events to commemorate 75 years of progressive Independent India (Azadi Ka Amrit Mahotsav).

The thirteenth event, “**Interactive Session with Wind Industry Experts**” was successfully conducted on 26<sup>th</sup> May 2023.

The announcement about the event carrying the instructions was hosted in NIWE website and circulated through Social Media pages along with the Flyer given below.

**Azadi Ka Amrit Mahotsav**  
to commemorate the 75 years of progressive Independent India

**G20**  
INDIA 2023

As part of the Azadi ka Amrit Mahotsav, NIWE has scheduled sixteen (16) Events with the support of Ministry of New and Renewable Energy (MNRE)

**13<sup>th</sup>**  
EVENT

**INTERACTIVE SESSION  
WITH WIND INDUSTRY EXPERTS**

26<sup>th</sup> May 2023      4.00 - 5.00 pm

**THEME**  
**HARNESSING 140 GW WIND  
INSTALLED CAPACITY BY 2030 IN INDIA**

Registration Link : <https://forms.gle/m4r6teyAChyiRwew8>

For more information, please contact **Dr. P. KANAGAVEL**  
Director and Head, Skill Development and Training & Infrastructure Management Division  
Mobile : +91 9445798007 Ph. : +91-44-22463982 / 83 / 84 E-mail : pkanagavel@niwe.res.in

**NATIONAL INSTITUTE OF WIND ENERGY**  
An autonomous Research & Development Institution  
Ministry of New and Renewable Energy, Government of India  
CHENNAI

The event was conducted online, enabling large number of participants to take part in the Webinar.

## REGISTRATION

After the announcement, **290 candidates** registered and **110 participants** have attended the event.

## PROGRAMME SCHEDULE

Date & Time	Theme of Interactive Session	Panel Members
26 <sup>th</sup> May 2023 & 4.00 - 5.00 pm IST	Interactive Session with Wind Industry Experts on the topic “ Harnessing 140GW Wind installed capacity by 2030 in India”	<b>Shri. A. Karanth</b> <i>Wind Energy Consultant</i>
		<b>Dr. R. Kumaravel</b> <i>MD - Country Manager            Wind Guard</i>
		<b>Shri. Rahul Rawat*</b> <i>Scientist, MNRE</i>
		<b>Dr. K. Boopathi **</b> <i>Director &amp; Division Head, OWD, DAF &amp; IT,            NIWE</i>

\*/\*\* Both the experts could not join the discussion due to unavoidable official exigency. However, Dr. P. Kanagavel, Director & Division Head, NIWE joined the panel discussions.

The session was very lively and interactive. The panel members shared their inputs on the topic, “Harnessing 140 GW Wind Installed capacity by 2030 in India” through a presentation followed by Q&A session and the participants evinced interest in raising questions and clarifying their doubts.

Team of experts who have worked in various wind energy projects, took part in the discussions and it was an excellent forum for the stakeholders to understand the various issues and challenges faced towards the roadmap on the topic and the future achievement in India.

The event has provided a wonderful learning experience for the participants for the project development in harnessing 140 GW wind installed capacity by 2030 in India. All the participants were satisfied with the knowledge transferred through the panel discussion on

different aspects of the roadmap of the topic and expressed their happiness to NIWE and MNRE for arranging the Interactive Sessions with the Wind Industry Experts under the celebration of Azadi ka Amrit Mahotsav.

## Gallery of the 13<sup>th</sup> Event

The image displays a Zoom meeting interface. The top portion shows a presentation slide with the following text:

- G20** and **75 Azadi Ka Amrit Mahotsav** logos.
- Welcome to**
- 13<sup>th</sup> Event**
- Interactive Session with Wind Industry Experts**
- As part of the "Azadi ka Amrit Mahotsav" to commemorate the 75 years of progressive Independent India
- 26<sup>th</sup> May 2023**
- Topic :**
- Harnessing 140 GW Wind installed capacity by 2030 in India**

The bottom portion of the screenshot shows a gallery of participants. A notification at the top of this section reads: "Transcription has stopped You're now only recording this meeting." The gallery includes:

- People** list on the right: SDT(NIWE) (Guest), Arunpandian Siva (Guest), beemari pranesh (Guest), F & IT, Karanth A S Blore (Guest), Kumaravel Rathinavel, Maddela Chinna Obaiiah, Mohana Varsha, SDT Organizer, Shiv Vembadi.
- Presenters (12)** list at the bottom: VR, KS, NL, KG, F, RK, S.

The Windows taskbar at the bottom shows the time as 15:42 on 26-05-2023, with a temperature of 37°C and weather "Mostly sunny".

**DEUTSCHE WINDGUARD**

**People**

Share invite

Presenters (5)

- SDT(NIWE) (Guest)
- F & IT**
- KB Karanth A S Blore (Guest)
- KR Kumaravel Rathinavel
- SDT Organizer

Attendees (51)

- A Aadarsh (Guest)
- AB ADITI BHARGAV
- AS Aishwarya P S
- AB Amit Bhola
- AA Anshika Acharya

Windows taskbar: Type here to search, INR/USD +0.17%, 16:09 26-05-20

**People**

Share invite

Presenters (5)

- SDT(NIWE) (Guest)
- F & IT
- KB Karanth A S Blore (Guest)**
- KR Kumaravel Rathinavel
- SDT Organizer

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Meeting control bar: 34:49, mute, video, chat, help, end

Windows taskbar: Type here to search, USD/INR -0.22%, 16:14 26-05-20

DEUTSCHE WINDGUARD

**People**

Share invite

Presenters (7)

- SDT(NIWE) (Guest)
- F & IT
- Joshua Jeyanthan (Guest)
- Karanth A S Blore (Guest)
- Kumaravel Rathinavel**
- SDT Organizer
- Thalapathi Prabakaran V (Gu...

Attendees (51)

- Aadarsh (Guest)
- ADITI BHARGAV
- Aishwarya P S

+84 KS NL KG RK S

Type here to search

Feels hotter 16:21 26-05-20

**Wind power potential - world wide**

ONSHORE & OFFSHORE WIND RESOURCE MAP

**WIND POWER DENSITY POTENTIAL**

WORLD BANK GROUP DTU Wind Energy  
ESMAP VORTEX

45:05

Kumaravel Rathinavel

+90 KS NL KG RK S

Kumara Guru (Guest) F & IT R.Anirama Krishnan (... SDT

Type here to search

Earnings upcoming 16:24 26-05-20

### Wind power statistics

Indian state-wise installed capacity 37 GW (by Mar 2020) – currently around 41GW

**Tamil Nadu – 1<sup>st</sup> Position**

State	Total Capacity (MW)
Tamil Nadu	9231.77
Gujarat	7203.77
Maharashtra	4794.13
Karnataka	4753.40
Rajasthan	4299.73
Andhra Pradesh	4077.37
Madhya Pradesh	2519.89
Telangana	128.10
Kerala	62.50
Others	4.30
<b>Total</b>	<b>37090.03</b>

Government of India target: 140GW by 2030

**INDIA**  
Wind Power Potential Map at 100m agl

**People**

Share invite

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- SDT(NIWE) (Guest)
- F & IT
- Karanth A S Blore (Guest)
- Kumaravel Rathinavel**
- SDT Organizer

Attendees (51)

- Aadarsh (Guest)
- ADITI BHARGAV
- Aishwarya P S
- Amit Bhola
- Anshika Acharya

+92 KS NL KG RK S

Type here to search

Earnings upcoming

16:25 26-05-20

AKAM-2022-23-13th Event- Interactive Session with Wind Industry Experts

55:43

Pop out Chat People Raise React View Rooms Apps More Camera Mic Share Leave

VI 98 S

VIKRAM S... Participants

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**INDIA**  
Wind Power Potential Map at 100m agl

**Participants**

Type a name

Share invite

Presenters (5)

- SDT Organizer
- F & IT
- Karanth A S Blore (Guest) Meeting guest
- Kumaravel Rathinavel** External
- SDT (NIWE) (Guest) Meeting guest

Attendees (93)

- Aadarsh (Guest) Meeting guest
- Abdul Kabir (Guest) Meeting guest
- ADITI BHARGAV External

Kumaravel Rathinavel

Type here to search

36°C Partly sunny

16:26 26-05-20

AKAM-2022-23-13th Event- Interactive Session with Wind Industry Experts

58:28

Pop out Chat People Raise React View Rooms Apps More Camera Mic Share Leave

VI 99+ S

VIKRAM S... Participants

Participants

Type a name

Share invite

Presenters (5)

- SDT Organizer
- F & IT
- Karanth A S Blore (Guest) Meeting guest
- Kumaravel Rathinavel External
- SDT (NIWE) (Guest) Meeting guest

Attendees (96)

- Aadarsh (Guest) Meeting guest
- Abdul Kabir (Guest) Meeting guest
- ADITI BHARGAV External

Friday, 26 May 2023 14:25

1400W - 2030

1100W in Onshore + 300W in offshore

7 years: 1000W

100/7+14.2857

Almost 150W per year to be achieved

Onshore potential = 300GW

Offshore potential = ??

- Technological development - efficient generators/efficient converters, long rotor blades, height towers - large capacity turbines 6-7MW and above for onshore (7\*1000-7000, 1000 turbine installation in a year)Availability of production facility (very much available)
- Sufficient component manufacturers ??
- Quick turnaround time for certification and approvals
- Design of offshore foundation sub structures - to take place in India
- Project certification
- Testing centres in India - Blade test centre / drive train test centre / higher capacity turbine test centres in the field
- Repowering/life time extension
- Increase in tariff / attractive policies / land regulations / grid availability

Kumaravel Rathinavel

Type here to search

36°C Partly sunny

16:29 26/05/2023

AKAM-2022-23-13th Event- Interactive Session with Wind Industry Experts

01:06:33

Pop out Chat People Raise React View Rooms Apps More Camera Mic Share Leave

VI 99+ S

VIKRAM S... Participants

Participants

Type a name

Share invite

Presenters (5)

- SDT Organizer
- F & IT
- Karanth A S Blore (Guest) Meeting guest
- Kumaravel Rathinavel External
- SDT (NIWE) (Guest) Meeting guest

Attendees (103)

- Aadarsh (Guest) Meeting guest
- Abdul Kabir (Guest) Meeting guest
- ADITI BHARGAV External

1100W

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100/7+14.2857

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Kumaravel Rathinavel

Type here to search

36°C Partly sunny

16:37 26/05/2023

AKAM-2022-23-13th Event- Interactive Session with Wind Industry Experts

01:10:32

Take control Pop out Chat People Raise React View Rooms Apps More Camera Mic Share Leave

**Participants**

Type a name

Share invite

**Presenters (5)**

- SDT Organizer
- F & IT
- Karanth A S Blore (Guest) Meeting guest
- Kumaravel Rathinavel External
- SDT (NIWE) (Guest) Meeting guest

**Attendees (104)**

- Aadarsh (Guest) Meeting guest
- Abdul Kabir (Guest) Meeting guest
- ADITI BHARGAV External

Kumaravel Rathinavel

WINDGUARD

- Sufficient component manufacturers ??
- Quick turnaround time for certification and approvals
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Windows taskbar: Type here to search, 36°C Partly sunny, 16:41 26-05-20

AKAM-2022-23-13th Event- Interactive Session with Wind Industry Experts

01:14:26

Chat People Raise React View Rooms Apps More Camera Mic Share Leave

**Participants**

Type a name

Share invite

**Waiting in lobby (1)**

- Jayasruthy Karthikeyan External

**Presenters (5)**

- SDT Organizer
- F & IT
- Karanth A S Blore (Guest) Meeting guest
- Kumaravel Rathinavel External
- SDT (NIWE) (Guest) Meeting guest

**Attendees (104)**

- Aadarsh (Guest) Meeting guest
- Abdul Kabir (Guest) Meeting guest

Kumaravel Rathinavel

K Bhargathy

F & IT

Karant A S Blore (Guest)

SELVAGANAPATHY R (Guest)

NATIONAL INSTITUTE OF WIND ENERGY

Windows taskbar: Type here to search, 36°C Partly sunny, 16:45 26-05-20



AKAM-2022-23-13th Event- Interactive Session with Wind Industry Experts

01:19:37

Chat People Raise React View Rooms Apps More Camera Mic Share Leave

Kumaravel Rathinavel

SELVAGANAPATHY R. (Guest)

Karanth A S Blore (Guest)

F&IT

VI VIKRAM SI... SDT(NIWE) ...

NR Nishanth R... KB K Bharathy

GR Ganesan Rama... RK R.Anirama ...

AB Amit Bhol... 99+ Participants

S

Some people in this chat are outside your org. It's possible they have message-related policies that will apply to the chat.

**Meeting chat**

SV Shiv Vembadi 16:27  
The screen is blank, sorry

SH Suchit Hoti 16:47  
Hello Panel.

I have few questions:

1. Are we deciding the 140GW based on 100m potential? What about the new turbines having Hub Heights of 120+m??
2. Apart from supply chain constraints for offshore wind, what research should be done to boost this

Type a new message

Type here to search

36°C Partly sunny 16:50 26-05-20

AKAM-2022-23-13th Event- Interactive Session with Wind Industry Experts

01:21:07

Chat People Raise React View Rooms Apps More Camera Mic Share Leave

Kumaravel Rathinavel

NATIONAL INSTITUTE OF WIND ENERGY

Karanth A S Blore (Guest)

Ganesan Ramamoorthy

VI VIKRAM SI... SDT(NIWE) ...

NR Nishanth R... RK R.Anirama ...

VR Vidyesh Ra... KB K Bharathy

AB Amit Bhol... 99+ Participants

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New message

Type a new message

Type here to search

36°C Partly sunny 16:51 26-05-20

AKAM-2022-23-13th Event- Interactive Session with Wind Industry Experts

01:30:08

Chat People Raise React View Rooms Apps More Camera Mic Share

Participants

Type a name

VI VIKRAM SL... SDT(NIWE) ...

NR Nishanth R... RK R.Anirama ...

VR Vidyesha Ra... KB K Bharathy

K K. K. Bhas... 99+ Participants

Presenters (5)

- SDT Organizer
- F & IT
- KB Karanth A S Blore Meeting guest
- KR Kumaravel Rathinavel External
- SDT (NIWE) Meeting guest

Attendees (101)

- SR SELVAGANAPATHY R Meeting guest
- A Aadarsh (Guest) Meeting guest
- AK Abdul Kabir (Guest) Meeting guest

Type here to search

36°C Partly sunny

AKAM-2022-23-13th Event- Interactive Session with Wind Industry Experts

01:33:32

Chat People Raise React View Rooms Apps More Camera Mic Share Leave

Participants

Type a name

Share invite

VI VIKRAM SL... SDT(NIWE) ...

NR Nishanth R... RK R.Anirama ...

VR Vidyesha Ra... SR SELVAGANAPATHY R

KB K Bharathy 99+ Participants

Presenters (6)

- SDT Organizer
- DK Dr N Karunamoorthy (Guest) Meeting guest
- F & IT
- KB Karanth A S Blore (Guest) Meeting guest
- KR Kumaravel Rathinavel External
- SDT (NIWE) (Guest) Meeting guest

Attendees (98)

- A Aadarsh (Guest) Meeting guest
- AK Abdul Kabir (Guest) Meeting guest

Type here to search

36°C Partly sunny

17:04 26-05-20

AKAM-2022-23-13th Event- Interactive Session with Wind Industry Experts

01:34:58

Chat People Raise React View Rooms Apps More Camera Mic Share Leave

The screenshot shows a Zoom meeting interface. On the left, there are video thumbnails for participants: Kumaravel Rathinavel (top left), Karanth A S Blore (Guest) (top right), Ganesan Ramamoorthy (bottom left), and Ravindran (Guest) (bottom right). A central thumbnail shows a presentation slide from the National Institute of Wind Energy (NIWE) with the text 'NATIONAL INSTITUTE OF WIND ENERGY' and 'INDIAN POWER AND RENEWABLES'. To the right of the thumbnails is a list of participants with circular icons and names: VIKRAM SI..., Dr N Karunamo..., SDT(NIWE)..., K Bharathy..., R.Arirama..., Nishanth R..., Vidyesh Ra..., and a '99+' icon. Below this list is a 'Participants' section with a search bar and a 'Share invite' button. Further down, there are sections for 'Presenters (6)' and 'Attendees (96)', each with a list of names and roles. At the bottom, a Windows taskbar is visible with the search bar 'Type here to search', various application icons, and system tray information including '36°C Partly sunny', '17:05', and '26-05-20'.

Kumaravel Rathinavel

Karanth A S Blore (Guest)

F & IT

Ganesan Ramamoorthy

Ravindran (Guest)

VI VIKRAM SI... DK Dr N Karunamo...

S SDT(NIWE) ... KB K Bharathy

RK R.Arirama ... NR Nishanth R...

VR Vidyesh Ra... 99+ Participants

Participants

Type a name

Share invite

Presenters (6)

SDT Organizer

DK Dr N Karunamo... (Guest) Meeting guest

F & IT

KB Karanth A S Blore (Guest) Meeting guest

KR Kumaravel Rathinavel External

S SDT (NIWE) (Guest) Meeting guest

Attendees (96)

SV Shiv Vembadi External

A Aadarsh (Guest) Meeting guest

Type here to search

36°C Partly sunny 17:05 26-05-20