



**WORLD  
SUSTAINABLE  
DEVELOPMENT  
SUMMIT 2020**

**INTERNATIONAL  
DIALOGUE**

Monte Carlo, Monaco  
3 July, 2019



PRINCE ALBERT II  
OF MONACO  
FOUNDATION

# **Sustainable Action Dialogue Monaco**

**An Overview**

3 July, 2019



FIRST INTERNATIONAL PRE- EVENT OF  
**WORLD SUSTAINABLE DEVELOPMENT SUMMIT 2020**

29 - 31 January, 2020

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# PREFACE

TERI in collaboration with The Prince Albert II of Monaco Foundation hosted the first 'Sustainable Action Dialogue: Pre-events of the World Sustainable Development Summit' in Monte Carlo, Monaco on July 3, 2019 at Hotel Fairmont Monte Carlo.

The Dialogue was held as the first pre-event to the 2020 edition of TERI's annual flagship event, the World Sustainable Development Summit (WSDS), in an effort to facilitate the exchange of knowledge and experience, and initiate sustainable partnerships.

The Memorandum of Understanding signed between the Prince Albert II of Monaco Foundation and TERI in New Delhi on February 4, 2019, in the presence of His Serene Highness Prince Albert II of Monaco, was an important milestone that cemented ties between the two organizations who committed to produce common tools for communication, capitalization, and knowledge development. The Monaco Sustainable Action Dialogue was held as a first step towards greater collaboration and cooperation between TERI and the Foundation.

Titled, 'Renewable Energy – a Viable Tool for Clean Energy Transition' and 'Advancing Electric Mobility in Cities: Addressing Critical Challenges (Policies, Regulations & Technology)', the day-long discussion during the Dialogue was held in the presence of subject experts from India and the European Union.

This report assimilates key discussion points of the event and provides a thorough overview of the day's proceedings.

## ABOUT WSDS

Hosted annually since 2001 by TERI, the World Sustainable Development Summit is one of the largest international events dedicated to accelerating the pursuit of sustainable development. The WSDS has continued the legacy of the erstwhile Delhi Sustainable Development Summit (DSDS) which was initiated in 2001 with the aim of making 'sustainable development' a globally shared goal. The Summit series has over the years brought together 47 heads of state and government, 13 Nobel laureates, ministers from 64 countries, 1700 business leaders, 1900+ speakers and over 13,000 delegates from across the world.

The 2020 edition of the WSDS is scheduled from 29-31 January 2020, in New Delhi, India and will be held under the broad rubric, 'Towards 2030 Goals: Making the Decade Count'.

Possibly the sole Summit on global issues taking place in the developing world, WSDS now strives to provide long-term solutions for the benefit of the global community by assembling the world's most enlightened leaders and thinkers on a single platform.

# ACKNOWLEDGEMENTS

The World Sustainable Development Summit (WSDS) has in the last eighteen years developed into the world's major gathering of world leaders from every profession focusing on issues of sustainable development. The opportunity to host the first pre-event of the 2020 edition of WSDS in Monaco was an important milestone in the Summit's journey. The Monaco Sustainable Action Dialogue, as it was titled, was held in collaboration with the Prince Albert II of Monaco Foundation which was instrumental in extending the sustainability goals that underline the WSDS vision for the future to its wide network.

Through the extensive contribution made by the Foundation with respect to thematic input, speaking opportunity, logistical support, and media coverage, the event was undoubtedly a smooth success. We would sincerely like to thank Mr Olivier Wenden, Executive Director and Ms Anaïs Boulud-Psseron, Event Manager of the Foundation for their support in helping us put this event together. We hope to continue our association with the Foundation in the future and expectantly aim to spread the sustainability message from the few to the many, together.

The presence and participation of a dynamic host of speakers during the event ensured that the deliberations remained expansive and interactive. Each speaker brought forward the urgency and importance of the topics under fire, and enumerated on collaborative steps that can help address them.

The efforts of TERI's internal team of subject experts comprising Mr Shri Prakash, Distinguished Fellow, Mr Ashvini Kumar, Senior Director, Mr Sunil Dhingra, Senior Fellow, and Ms Megha Kumar- Associate Fellow & Area Convenor, need to be acknowledgment for their contribution towards the development of the session background notes and thematic discussion points that formed the basis of the engaging discussion during the event.

I also would like to acknowledge the efforts of the WSDS team namely; Ms Aarti Narain- Manager, Outreach, and Ms Nazia Naheed Husain- Research Assistant who helped put together the event agenda and coordinated the day's programme.

I thank all for their participation and contribution.

**Dr Annapurna Vancheswaran,**  
Senior Director, TERI

# DIALOGUE OVERVIEW

## INAUGURAL SESSION

The inaugural session of the Dialogue was graced by the presence of His Excellency, Mr Patrick Medecin, Ambassador of Monaco to India and Japan, Mr Ankan Banerjee, Deputy Chief of Mission, Embassy of India in France, Mr Olivier Wenden, Executive Director, Prince Albert II of Monaco Foundation and Dr Ajay Mathur, Director General, TERI.

HE Mr Patrick Medecin in his extremely engaging address discussed the role that Monaco, under the leadership of HSH Prince Albert II and India with its robust environmental efforts will together add to the global efforts that are being taken towards the creation of a better and healthier world.

“ We all know that there is only one planet and we have no spare parts to repair it with. Only relevant actions in our everyday lives today can ensure the wellbeing of children who are our future. ”



- HE Mr Patrick Medecin, Ambassador of Monaco to India and Japan

Mr Ankan Banerjee's highly stimulating address provided a close Indian perspective on the future of renewable energy (RE) in the Indian market. Through Mr Banerjee's detailed address, it was evidently clear that India's position as a significant and important promoter of RE is crucial to the reduction of coal consumption and carbon-dioxide emissions. Besides focussing on steps to enhance the generation of renewable energy in India, the country is also making the efforts to upgrade existing technology to harness conventional sources of energy with greater efficiency to minimize their environmental impact.

“ Protecting nature is our shared and collective responsibility. Our efforts will surely bear fruits for our future generations who would be able to lead a healthy and high quality lifestyle. ”



- Mr Ankan Banerjee, Deputy Chief of Mission, Embassy of India in France

“ Reformation of thought and the need for increased levels of education and awareness are a must if we have to fight climate change collectively. ”



- Mr Olivier Wenden, Executive Director, Prince Albert II of Monaco Foundation

“ There is a need for the international community to work together to address the urgent climate change concerns. The emphasis on linking technology to large scale replication of sustainable solutions is important and therefore essential for it to reach various players to make a difference. ”



- Dr. Ajay Mathur, Director General, TERI

As for the future of electric vehicles in the country, India's decision to offer non-fiscal incentives was discussed as an important step towards a cleaner vehicular future for the country. To further encourage the uptake and faster adoption of electric vehicles, India aims to provide further incentives on purchase of an electric vehicle.

## WSDS 2020 EXHIBITION ANNOUNCEMENT

*MoU Signing Ceremony ~ TERI & Messe München India*

An important highlight of the Dialogue included the MoU signing ceremony between TERI and Messe München India (MMI), who together committed to jointly host the IFAT Delhi Exhibition of the World Sustainable Development Summit 2020, in January next year. The TERI-MMI activity is an effort to offer a sustainability platform that will attract world leaders, practitioners and the environmental technology community to focus on the global future. With a long-term vision of expanding the IFAT Delhi Exhibition into a multi-year programme, the 2020 edition will attempt to promote continuous efforts towards building a healthy commune of environment and sustainability conscious partnerships.

“ Water supply, waste management, clean air – IFAT takes on pressing issues that are crucial for the sustainable development of the respective region. By launching IFAT Delhi, we respond to the country's high demand for environmental solutions. ”

- On the occasion, Mr Stefan Rummel, Managing Director of Messe München

“ IFAT India and TERI have been close partners since 2017. We are glad that IFAT Delhi will not only strengthen this cooperation but will complement the World Sustainable Development Summit by bringing technology and innovation exhibitors that make essential contributions to sustainable development. ”

- Dr Annapurna Vancheswaran, Senior Director, TERI

# PLENARY 1: RENEWABLE ENERGY - A VIABLE TOOL FOR CLEAN ENERGY TRANSITION

Setting the context: Mr Amit Kumar, Senior Director, Social Transformation, TERI

## Panel Discussion

Chair: Dr Ajay Mathur, Director General, TERI

- Mr Jan Grimbrandt, CEO & Chairman of the Board, Boson Energy
- Dr Mohan Lal Kolhe, Professor, Faculty of Engineering & Science, University of Agder
- Mr Neil Spann, Managing Director, Power Roll
- Mr David Turk, Head of the Strategic Initiatives Office, International Energy Agency (IEA)

Energy systems globally are going through rapid transitions that will bring important changes to the way we use energy in our industry, transport and homes. These trends would have significant implications for governments, businesses and individuals in the next decade and thereafter. Electricity constitutes a key element of energy transition. Recent developments amply indicate rising growth in wind and solar capacities resulting in their increased share in the overall energy mix. Presently RE's share is more than 33% of global installed power generating capacity. It is estimated that nearly half of global total capacity will be in solar and wind by 2035. In addition, bio energy is emerging as another renewable source of energy which has significant potential to generate power and also to meet heating and cooling requirements of the industry and of buildings. The need is to move from 'viability' to 'sustainability', comprising people, planet, and profits.

“Power Roll is a UK based company developing energy technologies and solutions to global energy challenges. The technology is unique, patented, ultra-low cost architecture for solar power generation and energy storage and is working with a range of partners to scale up and deploy its technologies globally.”



- Mr Neil Spann, Managing Director, Power Roll

The plenary session broadly focussed on discussions around renewable energy usage through utility-scale power development (megawatt scale solar and wind power), small scale applications (containerized PV solution, PV-port on roof top, roof-top solar systems) and heating, cooling and power applications using biomass waste streams. From the developing countries' perspective the key elements of way forward include;

- (i) Integrated, intelligent and interactive network combining centralized and decentralized systems and
- (ii) Innovations in technology, products, services, business models and market designs.

Mr Jan Grimbrandt made an emphatic point on the need to create immediate solutions for long term benefits, without losing out crucial time on indefinite deliberation. Dr Mohan Lal Kolhe, on his part, emphasised on the need for active cooperation, needed to develop new technologies and business models, especially for renewable energy integration into distributed network.

“Cost reduction along with stable policies will be critical to advancing renewable energy. RE is crucial to strengthening any country's economy.”



- Mr David Turk, Head of the Strategic Initiatives Office, International Energy Agency (IEA)

## PLENARY 2: ADVANCING ELECTRIC MOBILITY IN CITIES- ADDRESSING CRITICAL CHALLENGES (POLICIES, REGULATIONS AND TECHNOLOGY)

**Setting the context: Ms Megha Kumar**, Associate Fellow & Area Convenor, Transport & Urban Governance, TERI

### Panel Discussion

Chair: **Dr Ajay Mathur**, Director General, TERI

- **Mr Kary Bheemaiah**, Engagement Manager, Commercial Strategy, Fahrenheit212
- **Mr Shri Prakash**, Distinguished Fellow, TERI
- **Dr Sandra Wappelhorst**, Researcher, The International Council on Clean Transportation (ICCT)

Discussant: **Mr Arno Kerkhof**, Bus Unit Leader, UITP

The future is expected to be driven by clean mobility powered with abundantly available renewable energy. If powered by clean energy, electric vehicles (EVs) offer to be one of the most commercially viable clean mobility options for countries at the moment. Unsurprisingly, EVs are being adopted globally as a potential solution to curb emissions, air pollution and tackling concerns related to energy security from the transport sector. The panel discussion helped explore how governments and technology providers could partner effectively in achieving the common goal of clean mobility.

The discussion brought forth apprehensions that exist pertaining costs of leasing and procurement of electric vehicles as well as the concern about lacking infrastructure meant to fuel the fleet of electric vehicles.

Mr Kary Bheemaiah from Fahrenheit 212 gave a detailed presentation about latest mobility trends and the challenges being faced. From electric vehicles to drones being used today, innovations such as these show a huge shift happening within the transport sector, as it attempts to find a new sustainable position within the changing market of today.

“The manner in which we presently consider solving any issue, not just for transportation and mobility, it needs to be looked at from an eco- system perspective.”



- Mr Kary Bheemaiah, Engagement Manager, Commercial Strategy, Fahrenheit212

Dr Sandra Wappelhorst shared ICCT's analysis of electric vehicle market in US, China, and Europe which reveals that policies and regulations need to be in place, which promote vehicle manufacturers to introduce new technology vehicles in the market. High upfront cost remains a barrier to the uptake of electric vehicles. Hence, there is a need for developing affordable vehicle models for the consumers.

“ Consumers, local stakeholders utilities, and local authorities need to work together to bring electric vehicles in the market and to raise the share of electric vehicles. It is not one policy but multiple policies that need to come together for change to happen. ”



- Dr Sandra Wappelhorst, Researcher, International Council on Clean Transportation (ICCT)

Mr Shri Prakash concluded the session by addressing the problems faced by developing countries with an emphasis on India, where public transport has not have been able to cope with the growing demand, pushing consumers towards private vehicles.

The session deliberated on how governments and technology providers could partner effectively in achieving the common goal of clean mobility.



# GLIMPSES FROM THE DIALOGUE



# MONACO SUSTAINABLE ACTION DIALOGUE PARTNER



The Foundation created by His Serene Highness Prince Albert II of Monaco is active within the fields of climate change and renewable energies, biodiversity, water and the combating of desertification. It supports projects in specific geographical areas such as the Mediterranean Basin, the Polar Regions and the Least Developed Countries, in order to promote the preservation of the environment and sustainable development.

The objectives of the Foundation are to raise awareness amongst both populations and governments of the impact of human activities on the natural environment, to encourage more environment-friendly behaviour and to promote outstanding initiatives and innovative solutions, notably by distributing awards and grants.

The Foundation's aim is to initiate partnerships in order to identify and conduct joint projects in line with its fields of interest and geographical priorities.