

Accelerating Smart Power and Renewable Energy in India (ASPiRE)

SECTORAL WORKSHOP ON

BEST PRACTICES IN ENERGY EFFICIENCY IN ALUMINIUM SECTOR *A PATH FOR DECARBONIZATION*

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- **IE01 - Rejuvenation of Knowledge Exchange Platform**
 - **IE02 - Industrial Energy Efficiency and Decarbonisation Knowledge and Technology Partnerships**
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India-UK Energy Collaboration

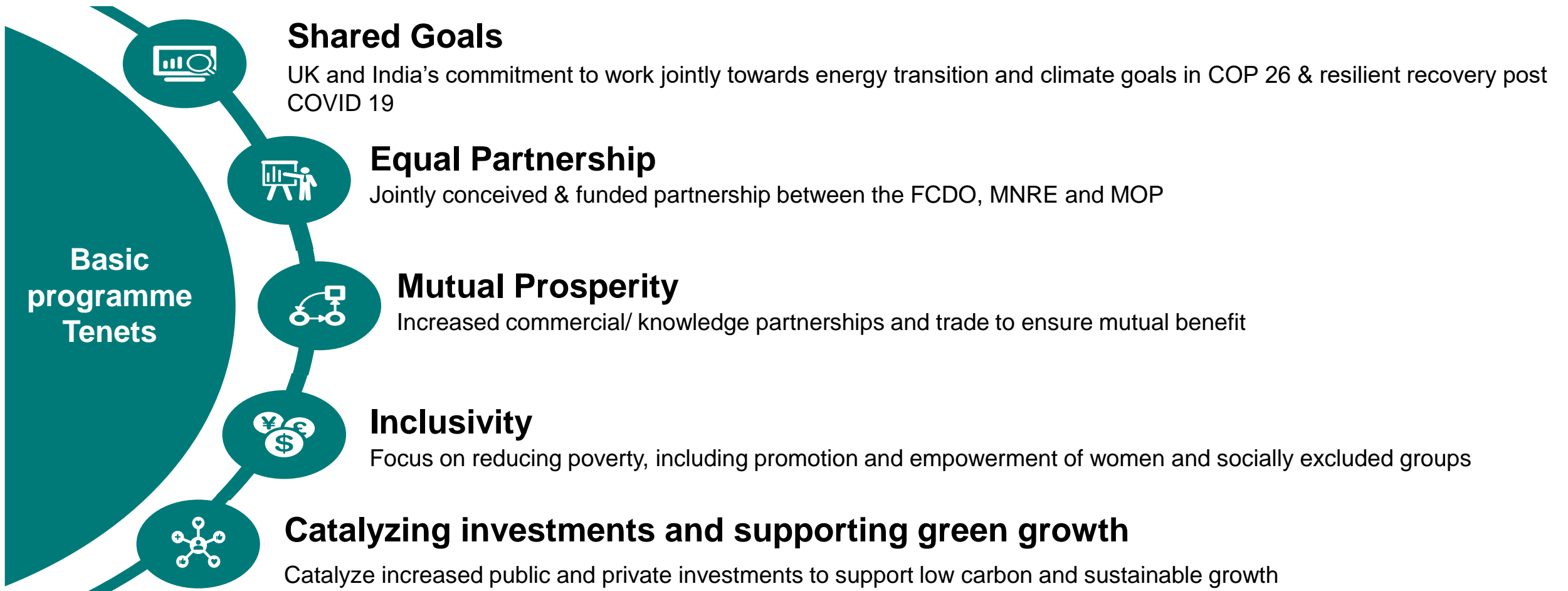
- ❑ **3rd India – UK Energy For Growth Partnership** – Ministerial Energy Dialogue held on 8th October 2021 to strengthen collaboration on accelerating the move to global clean energy in the decade ahead
- ❑ Ministers endorsed **Roadmap 2030 for India-UK Forward Action Plan** on clean energy, improving energy efficiency measures, enabling use of green hydrogen, and increasing the switch to electric mobility
- ❑ One of the actions under the Forward Action Plan is to launch the **India-UK Joint Partnership Programme on Smart Power and Renewable Energy**
- ❑ Renewable Energy project to be advanced in collaboration with **MNRE** and Smart Power project to be advanced in collaboration with the **MOP**
- ❑ **Programme Objective:** Provide a springboard for India's RE market; Create digital solutions for power distribution companies; Improve industrial energy efficiency; and Boost electric mobility



Programme Vision

To catalyse *increased investment in renewable energy, storage deployment and smart power in India.*

Focusing on outcomes that support *inclusive economic growth, lead to poverty reduction and support action on climate change.*



ASPiRE Programme Architecture



Smart Power Project Architecture

Renewable Energy Project Architecture

Project Themes	Electricity Distribution	Industrial Energy Efficiency	E-mobility Charging Infrastructure	Solar Energy	Off-Shore Wind Energy	Energy Storage	Green Hydrogen
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Work Packages with Central & select states (chosen among Andhra Pradesh, Himachal Pradesh, Telangana, Karnataka, Gujarat, Tamil Nadu, Delhi & Maharashtra)

Cross Cutting Activities	Green Financing
	UK India Knowledge Forum / Investment Promotion
	Gender and Social Inclusion

Intermediate Outcomes	Policy Products and Tools	Robust project pipeline	Commercial & Knowledge Partnership	Innovation
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Outcome	Improved investment environment through policy adoption, investment mobilisation & enhanced knowledge and skills	New partnerships between India and international institutions
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Impact → Increased investment to support energy security & economic growth that is inclusive, low carbon, supports poverty reduction & climate action
 Increased trade, investment & relationships between India and UK

Programme Interventions – Industrial Energy Efficiency/ Decarbonisation theme



Industrial Energy Efficiency

#	Work Package Name
IE01	Rejuvenation of Knowledge Exchange Platform (KEP)
IE02	Industrial energy efficiency and decarbonisation knowledge and technology partnerships

IE01 – Rejuvenation of Knowledge Exchange Platform

Background

- **Knowledge Exchange Platform** (<http://knowledgeplatform.in/>) was launched on 26th February 2015 under a collaborative initiative of **Bureau of Energy Efficiency** and **British High Commission**
- Objective of KEP was to promote EE measures among industries through sharing of best practices and technologies adopted
- However, the KEP has not been updated since 2018 due to several challenges
- Purpose of IE01 work package is to **rebuild & launch the KEP** as a one-stop shop for all EE needs of industries by integrating new features and make it sustainable beyond the programme duration
- The **rejuvenated KEP** would include following **databases**:
 - Proven & emerging technologies (broader solutions such as fuel switching, material substitution, circularity, resource efficiency, Industry 4.0, etc.) available in India & globally
 - Technology providers
 - Financial institutions

Expected Outputs

- **1 market assessment** report on Industrial Decarbonisation & EE technology/ solution needs & gaps of PAT industries
- KEP databases/ repository
- **1 knowledge output on UK best practices on IEE/ decarbonisation**
- **Rejuvenated KEP portal**
- Implementation framework for sustainable operation of KEP (with near to long-term activities & Note on KEP Secretariat)
- **Sectoral/ cross-sectoral knowledge exchange workshops** under ASPIRE
- Sectoral learning study tours/ domestic site visits
- **1 national level workshop and launch event for rejuvenated KEP** (including facilitation of B2B engagements on the side-lines)
- **Handholding support** to up to 10 industries (identifying specific technologies/ solutions & suppliers for implementation of EE/ decarbonization interventions)
- 1 international exchange visit for IEE/ decarbonisation
- **1 policy round table** and 2 policy recommendations

IE02 – Industrial EE & Decarbonisation Knowledge & Technology Partnerships/

Background	Expected Outputs
<ul style="list-style-type: none">• Incremental EE gains have started reducing with many low hanging EE opportunities already exploited under multiple PAT Cycles• Basis UK's experience over the past decade, further progress requires targeted handholding & deployment-focused interventions for deployment of established & proven solutions• Next set of opportunities require deployment of new technologies through new approaches, investment & partnerships• Activities under IE02 work package will catalyse the partnerships, investments & collaborations needed to accelerate this next phase of industrial EE solutions within key Indian industries• This would help in improving new technology acceptance, build confidence, supply chain development and de-risk investment• Consultations with UK technology developers and providers have indicated an interest in Indian market opportunities• IE02 work package to run in parallel with IE01 (KEP) to catalyse investment, partnerships and knowledge sharing	<ul style="list-style-type: none">• Report on key technology deployment opportunities for international technology & solution providers (including from the UK)• 1 deployment toolkit for UK/ international technology providers• Customised industrial EE technology list of pre-screened solutions, including academics, with high potential for deployment opportunities in India• Deployment facilitation sessions aligned with KEP sectoral workshops (for up to 3 priority sectors/ cross cutting solutions)• Matchmaking facilitation for 10-15 UK/ International companies with multiple Indian partnerships opportunities• Support to 5-6 UK/ international companies for deployment and quarterly progress reports detailing activities



Thank You