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INDUSTRIAL DEVELOPMENT ORGANIZATION

Partners: UK Government

A2D Accelerate to Demonstrate Facility

Accelerate-to-Demonstrate (A2D) Facility

Webinar Series on Good Quality Demonstration Projects

Webinar: Monitoring and Dissemination Activities of Good-Quality Demonstration Projects

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Webinar Agenda

Time	Agenda Item
13:30 – 13:35	Webinar Series and Webinar Introduction Overview of the A2D Facility
13:35 – 13:40	How to Ensure Robust Monitoring and Data Collection?
13.40 – 13:45	What do Data Quality, Verification and Analytical Techniques Refer to?
13:45 – 13:50	How to Ensure High-Impact Reporting? What is High-Impact Dissemination?
13:50 – 13:55	Case Study (A2D Facility-Supported Demonstration Project)
13:55 – 14:00	Further Information

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A2D Facility Overview

Objectives

The A2D Facility aims to accelerate the commercialization of innovative climate solutions in developing countries by supporting catalytic and scalable 'lighthouse' demonstration projects in:

- Clean hydrogen
- Critical minerals
- Smart energy
- Industrial decarbonization

Initial Funding and Timescales

- **Initial contribution of ~USD 85 million** from the UK Government
- Initially operates from **April 2023 to March 2029**
- Global (**developing country-focused**) Facility
- **Grants of USD 1-5 million** per demonstration project for ~3-year projects
- **5 demonstration projects** supported through first call-for-proposals in 2024 (in Kenya, Namibia, Nigeria, Nepal and Tanzania)
- Second call-for-proposals in 2025 – **new projects will be announced in early 2026**
- Main Sustainable Development Goals (SDGs)-of-focus:

Activities bringing **transformational solutions** to the market at scale.

Providing grant support for implementing transformational demonstration projects with strong scalability potential, and which create and **disseminate knowledge and experiences** to foster collaboration, learning and scalability. Planning-related activities for demonstration projects are out-of-scope.

How to Ensure Robust Monitoring and Data Collection?

- A robust monitoring system, which should be built into the project design, should map every project activity to specified indicators across impact, outcome and output levels across each year of the project.

- The monitoring system should ensure that all data are systematically evidence-based with robust evidence and are gender-disaggregated, in-line with UNIDO processes.

- The monitoring system should include, for example:
  - Baselines, annual milestones and final targets
  - Units of measurement for each indicator (quantitative with qualitative additional context)
  - Data sources and collection tools
  - Clear methodologies for collecting data against each indicator

How to Ensure Robust Monitoring and Data Collection?

- **A monitoring plan should systematically collect, for example:**
  - Data on greenhouse gas emissions reduced or avoided (with a clearly defined and robust calculation methodology)
  - Robust evidence to back-up statements made on Technology Readiness Level (TRL) progression and Commercial Readiness Level (CRL) progression
  - Documented evidence on co-financing or co-funding leveraged
  - Data on stakeholder engagement disaggregated by type and gender
  - Data on knowledge and dissemination outputs

- **Monitoring systems should ensure:**
  - Gender-disaggregated data
  - Clear attribution of activities undertaken to the funding source
  - Avoid double-counting
  - Ensure excellent record-keeping for reporting purposes
  - Have audit-ready documentation

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How to Ensure Robust Monitoring and Data Collection?

IMPACT	Indicators:	Unit	Baseline:	Targets (during project life	Target Year 1 (2025)	Target Year 2 (2026)	Target Year 3 (2027)	Target Year 4 (2028)	Results year 1	Results year 2	Results year 3	Results year 4	MoV:
Shaping a sustainable shift in local markets by enabling clean energy technology solutions that are ready for wider uptake, catalysing	**Impact Indicator:** Estimated greenhouse gas emissions reduced or avoided	(in tonnes of CO2e emissions)											GHG Calculation, Project report
OUTCOMES													
Build a suite of proven innovative clean energy technology solutions that are ready for wider uptake, while creating confidence in wider stakeholders and market players to adopt, replicate and scale clean technology solutions.	**Outcome Indicator 1:** Project has increased in maturity and operational capability as a result of A2D Facility funding.												
	Indicator 1.1: Technology readiness level of the supported solution	TRL increase											Technical Validation Report
	Indicator 1.2: Commercial readiness level of supported solution	CRL increase											Project report, LoI
	Indicator 1.3: Market adaption readiness	Readiness Dimension											Project report, Evidence of product adaptation for local context, Request for
	Outcome Indicator 2.1: Public sector finance leveraged												
	Indicator 2.1.1: Value ($ USD) of Public finance	Value in ($USD)											Signed co-finance agreement
	Outcome Indicator 2.2: Public sector-related in-kind contributions												
	Indicator 2.2.1: Value ($ USD) of in-kind contribution by public sector	Value in ($USD)											Signed in-kind contribution letter
	Outcome Indicator 3.1: Private sector finance leveraged												
	Indicator 3.1.1: Value ($ USD) of Private finance	Value in ($USD)											Signed co-finance agreement
	Outcome Indicator 3.2: Private sector-related in-kind												
	Indicator 3.2.1: Value ($ USD) of in-kind contribution by private sector	Value in ($USD)											Signed in-kind contribution letter
INTERMEDIATE OUTCOMES													
Pilot projects successfully demonstrate the benefits and feasibility of alternative clean energy technology solutions, generating high-quality learning and creating a 'lighthouse' effect	**Intermediate Outcome Indicator 1:** Generation of significant domestic and/or												
	Indicator 1.1: Number of site visits or study tours from industry stakeholders to learn about the innovative clean technology solution in	Numerical											Site visit agendas, attendance lists
	Indicator 1.2: Number of stakeholder enquiries received by solution	Numerical											Enquiry log, emails etc...
	Indicator 1.3: Number of knowledge products disseminated by solution.	Numerical											Copy of knowledge document
	Indicator 1.4: Cumulative downloads of dissemination products.	Numerical											Number of document downloads, sharing etc..
	Indicator 1.5: Invitations received to showcase the solution	Numerical											Invitation letter/email, event program showing project as presenter
	Indicator 1.6: Number of mentions of the solution in domestic or international	Numerical											Clippings (links or PDFs), media monitoring report with date/source

What do Data Quality, Verification and Analytical Techniques Refer to?

- **Project must implement verifiable and robust analytical techniques**, including evidence-based baseline measurements and audits to ensure that all reported data are accurate, attributable specifically to the funding source of specific activities, and holds-up to external technical review.

- **Baseline values must be provided for all indicators** to measure the actual change or advancement (for example, advancing an innovative solution by a TRL level or by a CRL level).

- **Verification approaches may include, for example:**
  - Technical performance logs and/or sensor data
  - Signed agreements or equivalent of co-financing or co-funding confirmations
  - Attendance records and gender-disaggregated participant data from organized events and workshops, and follow-up surveys with participants to measure the longer-term impacts of the activities
  - Independent validation where possible and appropriate

- **Analytical approaches should show progress, for example**
  - Before and after performance comparisons
  - Market readiness tracking
  - Scalability indicators

How to Ensure High-Impact Reporting?

- **High-impact reporting must go beyond just activity tracking to demonstrate clear additionality and lighthouse effects** of how the demonstration project is having wider catalytic and transformational impacts, providing clear evidence that the project serves as a scalable model that would not have proceeded without the funding support.

- **High-impact reporting should include, for example:**
  - Measurable greenhouse gas emissions reduced or avoided
  - Technology Readiness Level progression (technological viability), Commercial Readiness Level progression (commercial viability) and Market Readiness Level progression (scalability potential)
  - Follow-on investments for scaling the innovative solution post-demonstration project and replication interest
  - Contribution to a wide range of Sustainable Development Goals (SDGs), including SDG 9 (industry, innovation and infrastructure), SDG 1 (no poverty) and SDG 13 (climate action).

What is High-Impact Dissemination?

- **For a demonstration project to achieve lighthouse effects, dissemination activities are crucial** in amplifying the results, lessons, viability and visibility of the innovative solution.
- **Examples of key questions to consider:**
  - Is the demonstration project generating significant domestic and/or international attention?
  - Has the demonstration project developed a community of industry stakeholders, investors, innovators and adopters in its sector, with links to wider existing domestic and/or international platforms?
  - Is a project proactively engaging in knowledge-sharing and dissemination activities (such as webinars, online-events, conferences and side-events) and collecting data about the effectiveness of those engagements, leading to enhanced knowledge, understanding, data and networks, and resulting in the creation of an innovation ecosystem that sustains transformational change?

- **Examples of activities:**
  - Number of study tours facilitated by the project to the project site for external stakeholders, knowledge product downloads, invitations to showcase, media mentions, project awards and prizes, publication showcases, showcasing of work in externally-organized events, number of capacity building and training activities undertaken, inclusion in government documents, policies, procurement portals or equivalent, etc.

What is High-Impact Dissemination?

- Knowledge products and dissemination activities undertaken by supported projects should contribute to the **scalability and replicability of the innovative climate solution, targeting relevant stakeholders that can facilitate this**, such as project developers, financiers/investors, industry, utility companies and other equivalent organizations.

- **Examples:** published reports highlighting results, lessons learned, progress and/or data (e.g. from study tours, capacity building activities, events, financial or technical guides) aimed at project developers, financiers/investors or other equivalent organizations that directly support the scaling and replication of the innovative solution.

What is High-Impact Dissemination?

- Study tours, capacity building and training-related activities, and events should **target stakeholders that have high-influencing roles in supporting or facilitating the scaling and replication** of the innovative solution.

- **Examples:** site visits and study tours to practically demonstrate the operation of an innovative solution on-the-ground, technical training workshops and capacity building to build local knowledge, skills and technical, operational and strategic capacities, conducted either in-house, externally or online, providing hands-on guidance, support and advice on specific technical issues, presenting in, and/or organizing sessions in, national, regional and international events to highlight results, lessons learned, progress, viability and/or data, etc.

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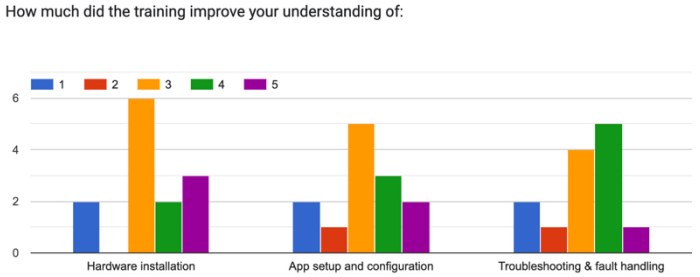
Case Study: A2D Facility-Supported Demonstration Project

Ubuntu Energy

Smart Energy: Smart Grid Scale-Up in Nigeria

A scalable “lighthouse” demonstration of a decentralized, peer-to-peer (P2P) energy-sharing network. Ubuntu Energy uses smart AI-driven software and controls to redistribute excess power from anchor PV sources to unserved community consumers.



Monitoring Learning Outcomes

Ubuntu Training Workshop for Installers

Duration: 3 years

Impacts:

- 30 tCO_2 GHG emission reduction
- Increasing clean energy access to 2000 communities
- New income source for communities from wasted excess energy
- Enhanced energy efficiency and digital monitoring

Ensuring Robust Monitoring, Reporting & Dissemination Activities:

- Automated dashboard for continuous data collection and analysis to track multi-layer system performance and learning outcomes
- Real-time system prediction and maintenance optimization. Robust user interface for community energy users
- Regular feedback to stakeholders and partners to inform decision-making
- Sharing lessons learned through workshops, study tours, site visits, publications and stakeholder engagement
- Translating insights into actionable improvements and scalable community energy solutions

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Further Information

- **A2D Facility Website:** Visit the website here
- **A2D Facility LinkedIn Account:** Follow the LinkedIn page here
- **A2D Facility Mailing List:** Join the mailing list here
- **A2D Facility Year 1 Annual Report:** Access the Annual Report here
- **A2D Facility Year 2 Annual Report:** Access the Annual Report here
- **A2D Facility Market Assessments:** Access the reports here