Potential for climate technology transfer through cooperation with Annex-I NDEs

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The Climate Technology Centre and Network

Organisation

• Operational arm of the UNFCCC Technology Mechanism
• Consortium of organizations from all regions + Network

Mission and scope

• Mission to stimulate technology cooperation and enhance the development and deployment of technologies in developing countries
• Technologies include any equipment, technique, knowledge and skill needed for reducing greenhouse gas emissions and for adapting to climate change effects

Core services

• Technical assistance to developing countries
• Knowledge platform on climate technologies
• Capacity building and support to collaboration and partnerships
CTCN Technical Assistance

Country-driven
- Any organization from developing countries can express need
- Request endorsed and submitted by the NDE

Fast and easy access to assistance
- User-friendly access: 4-pages submission, in all UN languages
- Appraisal of request within 1-2 weeks and response design within 2-12 weeks

CTCN selects and contracts relevant experts
- Assistance provided through Consortium and Network (value up to 250,000 US$)
- Collaboration with financial organizations to trigger funding

Support to remove barriers to technology transfer (financial, technical, institutional)
- Identification of needs and prioritization of technology, depending on country context
- Technical recommendation for design and implementation of technology
- Feasibility analysis of deploying specific technologies
- Support to scale up use and identify funding for specific technologies
- Support legal and policy frameworks
Networking and Collaboration

Join our network! Easy and free of cost.

**Access commercial opportunities:** respond to competitive bidding for delivery of CTCN technical assistance services

**Create connection:** network with national decision makers and other network members to expand your partnership opportunities and learn about emerging areas of practice

**Increase visibility:** broaden your organization or company’s global reach, including within UNFCCC framework

**Exchange knowledge:** keep updated on the latest information and share via the CTCN’s online technology portal

**Examples of collaboration**

- Co-host climate related events
- Twinning arrangements with research institutions
- Engage in new technology projects
How to use the webinar platform

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1. Listen through your computer: Please select the “mic and speakers” radio button on the right hand audio pane display
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Select the “questions” pane on your screen and type in your questions, at any time during the presentation

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Contact the GoToWebinars Help Desk: 888.259.3826

The presentations will be made available after the webinar
NDE Germany

- National Contact Point for climate technology transfer within the UNFCCC
- Acting on behalf of the Federal Ministry for Economic Affairs and Energy since 2016
NDE Germany’s role in technology facilitation

- German R&D
- Ministries and governmental programmes
- German business and industry
- Financing programmes

NDE Germany

Partner country/ NDE

Relevant stakeholders
Contact Point for Technology “Made in Germany”

Support and collaboration with the UNFCCC Technology Mechanism: CTCN and TEC

NDE Germany

Webportal and social media: www.nde-germany.de

Participation in and organisation of matchmaking events: Germany and worldwide
Matchmaking Workshops

- Sao Paolo 2017 with NDE Brazil “Opportunities for e-mobility”
  90 stakeholders from government, industry and research and major companies with innovative solutions

- Participation: Nairobi 2018, CTCN regional forum in Africa
  47 African countries
  Unique opportunity for NDE-NDE exchange on cooperation opportunities

- Jakarta 2018 with NDE Indonesia “Smart and climate-friendly city solutions”
  Smart cities, energy-efficient buildings and sustainable mobility

- Next?
  We are open for cooperation in 2019!
Contact us

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Potential for climate technology transfer through cooperation with Annex-I NDEs - Feedback from France

Agenda:
1) Introduction: ADEME’s activities as NDE for France
2) Cooperation with cleantech companies in the framework of Club ADEME International
3) Cooperation in the framework of the Global Climate Action Agenda (GCAA)
   1) The Mobilize Your City Initiative (sustainable transportation)
   2) The Global Alliance for Building and Construction
4) Conclusion / follow-up
1) Introduction:
ADEME’s activities as NDE for France

The French Environment and Energy Management Agency (ADEME) has been mandated as the NDE for France

Main activities carried out as NDE:

Mobilisation of French players within the CTCN network
- 14 French organisations participating in the CTCN Network: companies (consulting firms and technology providers), NGO’s, research bodies.

Assistance to the CTCN in addressing the needs expressed by developing countries in relation with French solution providers
- Interface with different types of players in France (public & private)
- Partnership with cleantech companies notably through Club ADEME International
- Outreach activities to showcase and duplicate existing projects and best practices (call for projects on access to energy, Global climate action agenda initiatives…)

CTCN network members from France
2) Cooperation with cleantech companies in the framework of Club ADEME International

A network gathering 150 French cleantech companies, Created and piloted by ADEME since 1997

Objectives: Help develop innovative partnerships and projects at the international level

Main fields of activities:
- Climate change mitigation / adaptation, energy efficiency, renewable energies, waste management, air quality management, soils depollution, environmental management…;
- A special emphasis in 2018-2019 on the field of access to energy;
- All countries covered but a strong mobilization of the companies in Africa;

Actions implemented:
- collective participation in international events & fairs;
- Implementation of innovative projects in consortium;
- Focus on the development and deployment of innovative solutions adapted to the local circumstances and needs; taking into consideration local contents;

Many cleantech companies looking constantly for public/private partners at the local level
2) Cooperation with cleantech companies in the framework of Club ADEME International

Examples of climate related projects implemented by Club ADEME International companies:

- Public lighting, electrification and solar power plants for about 300 villages in Senegal;
- Development of a “climate finance” roadmap for Zambia;
- Rural electrification of 80 villages in Benin;
- Solar desalination unit on the Island of Rodrigues, Mauritius;
- Solar powered ice machine for fishermen in Senegal;
- Hydrokinetic pico-turbines on the Congo river, in Congo Brazzaville;
- Construction and operation of a 50MW solar power plant in Mali;
- Studies for the resilience to climate change of Moroccan harbours and Togolese coastline;
- Adaptation of the territorial climate and energy plan methodology in Rio Grande Do Sul and Minas Gerais States in Brazil

To learn more: [www.clubinternational.ademe.fr](http://www.clubinternational.ademe.fr)
3) Focus on climate coalitions and initiatives – The global climate action agenda initiatives (GCAA)

- GCAA launched at COP21 within the climate negotiations:
  - to enhance the involvement of non-party stakeholders (companies, local authorities, NGO’s, finance sector…) in climate action and
  - to showcase/duplicate best practices
- About 80 international initiatives launched at COP21; many other initiatives created ever since
- To learn more: [http://climateaction.unfccc.int/](http://climateaction.unfccc.int/)
- Many possible synergies with CTCN and NDE activities

ADEME participation in GCAA initiatives with focus on Africa:
- Global Alliance for Buildings and Construction
- Mobilize Your City
- Mission Innovation
- International Solar Alliance
- World Alliance for Efficient Solutions
3.1) Global Alliance for Building and Construction (GABC)
Reinforcing energy efficiency in the building sector

- The GABC is an initiative launched at COP21, as part of the Lima Paris Action Agenda – supporting the implementation of NDCs/ buildings sector
  - Communicate: Raising awareness of the opportunities and impacts in the buildings and construction sector
  - Collaborate: Implementing partnerships, sharing technology and know-how, and facilitating access to efficient financing and funding
  - Solutions: Offering programs for further ambition and locally adapted solutions that firmly put the buildings sector on a below 2 °C path
- The GABC gathers 24 countries and 72 non-state organisations (sub-national, non-governmental organisations and private sector) from all over the world

www.globalabc.org
3.1) A programme catalyzed by the GABC: PEEB – Programme for Energy Efficiency in Buildings

- PEEB supports the implementation of the roadmap of the GABC: “Towards low GHG and resilient buildings” by mobilising investments in energy efficient buildings, financed by international and local institutions.

- It is implemented by the Agence Francaise de Développement (AFD), Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH and the Agence de l’Environnement et de la Maîtrise de l’Energie (ADEME) in partnership with the governmental and non-governmental entities from the countries in which the programme is implemented.

- Priority is given to large scale programmes of new buildings in hot and tropical countries
  - First partner countries: Mexico, Morocco, Senegal, Tunisia and Vietnam.
  - Support to the regulation, training and knowledge sharing, technical assistance for efficient and sustainable buildings / construction programmes
3.2) MobiliseYourCity
Deploying urban mobility schemes for climate action

- Without an ambitious transition towards low carbon transport, emissions in developing urban areas will be multiplied by 3 by 2050.
- The MobiliseYourCity Partnership is a multi-donor action, jointly co-financed by the EU, French and German governments aiming at assisting beneficiary partners – i.e. national and local governments – in their preparation of:
  - National Urban Mobility Policies and Investment Programs (NUMPs)
  - Sustainable Urban Mobility Plans (SUMPs)
- A global and inclusive network of cities and countries over Africa, Asia, Eastern Europe and Latin America
- [www.mobiliseyourcity.net](http://www.mobiliseyourcity.net)
3.2) MobiliseYourCity
Deploying urban mobility schemes for climate action

- Examples of actions undertaken
  - MobiliseDays: national awareness raising event for governmental institutions, decision-makers and urban mobility stakeholders
  - Strategic vision for urban mobility at the national level (NUMP) as a basis for future policy choices and investments
  - Technical assistance for the development or update of local authorities Sustainable Urban Mobility Plans (SUMPs)
  - Developing a tool for the calculation of urban mobility GHG emissions and for developing scenarios, in particular in cities located in Africa (Morocco, Tunisia, Cameroon, Senegal…)
  - Capacity building/Trainings for local authorities according to their needs: Climate / GHG emissions approach of mobility planning, data collection and mobility observatories, etc.

- www.mobiliseyourcity.net
4) Next steps

Meet us on the Club ADEME International booth at:

**Pollutec Maroc - 2-5 October 2018**
International trade show on environment,, Casablanca

**Pollutec Lyon - 27-30 November 2018, Lyon (France):**
- International exhibition of environmental equipment, technologies and services
- 40 international delegations foreseen; organization of an area/booth dedicated to Africa; Guest country this year is Burkina Faso

**World Future Energy Summit - 14-17 January 2019, Abu Dhabi**

Meet us on COP24 (2-14 December, Katowice):
Different side events will be organised to showcase initiatives such as GABC and MYC
Thank you very much!

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BASF New Business / NDE Germany Cooperation

Building Up Business in New Areas

BASF New Business GmbH
Dominik Dieckmann
Senior Manager Sales & Marketing Energy
Who we are

BASF
We create chemistry

- Our chemistry is used in almost all industries
- We combine economic success, social responsibility and environmental protection
- Turnover 2017: € 64,475 million
- EBIT 2017: € 8,328 million
- Employees: 115,490
- 6 major chemical sites and 350+ other production sites
What we do

BASF New Business
Our Mission

- BASF New Business is BASF’s organization to build up business “beyond core” by using Venture Capital and Start-up like structures.

- “Beyond core” means attractive new markets based on new technologies and adapted business models (Transformational Innovation).

- Activities are selected by market needs and know-how in chemistry.
Battery Technology

- **Cell**: X 224
- **Module**: 30 or 33kW
- **Package Unit**: 1.2MW / 8.64MWh
- **20 feet Container**: 200kW / 1.2MWh
MicroGrids – 24/7 Power Supply with Solar Power

- Solar power exceeds the average load by four to five times.
- Battery storage needs to discharge for 14-18 hours to shift the surplus solar energy to nighttime and early morning.
- NaS batteries can discharge for six hours at rated output, but they can discharge for a much longer duration by lowering the output.
Balancing Supply and Demand using Long-Duration Energy Storage Systems

50 MW / 300 MWh NaS battery system at the Buzen storage battery substation Kyushu Electric Power Co., Inc. Fukuoka, Japan. In operation since 2016

Solar power generation is expected to exceed power demand especially during the daytime in spring and autumn when power demand is low. This NAS battery system optimizes the balance of supply and demand of power by absorbing excess solar power to avoid limiting solar power output.
Integrated Value Chains (IVC)-Project
CTCN / NDE Contribution & Support

- Participation at the CTCN Regional Forum for NDEs from African (9-10 April 2018, UN Complex, Nairobi, Kenya)
- Arranged meetings with NDE Kenya, NDE Tanzania and NDE Nigeria (July and August 2018)
- Identifies appropriate funding, grants and financial support (continuous)
- Supports with subsidies applications (yet to come)
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