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## 1 EXECUTIVE SUMMARY

A successful response to climate change, addressing its physical, economic, and technical challenges, will require coordinated efforts on many fronts. Any such response must rely on a broad and deep technology foundation. The proposed Climate Technology Centre & Network is a timely initiative in advancing the key goal of technology development and deployment in developing countries. Many different approaches and initiatives have been tried or are currently underway to promote the technologies that will be needed to bring about a low-carbon world, and to adapt to a changing world. The Climate Technology Centre & Network, with a focused mission and innovative business strategy, can play a key role in moving the world in the needed direction. Det Norske Veritas (DNV) is proud to submit this proposal to host the Climate Technology Center & Network.

**DNV is an independent foundation operating globally.** Its purpose is to safeguard life, property and the environment, and its vision is of “global impact for a safe and sustainable future.” Headquartered in Oslo, Norway, DNV has worked internationally since it was established in 1867 and now has approximately 300 offices in 100 countries. As a knowledge-based company, DNV’s prime assets are the creativity, knowledge and expertise of more than 10,000 employees from more than 85 different nations.

**DNV is an international technology and knowledge management company.** One of DNV’s most important competitive advantages is its continuous investment in and dedication to research, innovation and collaboration with industry partners. DNV has had a research department since 1954 that has enhanced and developed services, rules and industry standards in multiple fields. Many of the technology solutions developed by DNV have helped define internationally recognized standards. DNV is also a globally recognised leader in knowledge management tools and services.

**DNV specialises in identifying, assessing and advising on risk.** DNV’s risk management expertise helps a broad range of global industries, from Energy and Maritime to Healthcare and Food. DNV has also worked with the UNFCCC for many years as a Designated Operational Entity (DOE) and a leading validator and verifier of CDM projects.

**DNV has the ideal mix of capabilities and experience to host the Climate Technology Centre and its Network efficiently and effectively, and to launch it quickly.** DNV has experience in designing and implementing technology centres and managing extensive networks. With its independent governance structure, wide-ranging and deep technical and operational expertise, DNV offers a unique approach to building trust and managing networks from an experienced and neutral standpoint.

**DNV’s vision for the Climate Technology Centre and Network is as an efficient, effective and responsive branch of the Technology Mechanism.** The importance of developing and deploying technology for climate change mitigation and adaptation in developing countries has been recognised through a variety of international technology initiatives launched over the years. It is crucial that the Climate Technology Centre and Network leverage the long and on-going process of developing and deploying such technologies. It must cooperate and collaborate with existing initiatives leveraging existing knowledge and experience, rather than duplicating on-going efforts. Resources must be used



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efficiently and effectively. To accomplish this, the Climate Technology Centre and Network must be structured around several core principles:

- A quick-start approach that generates “quick wins” that are needed to build user and funder support.
- A focused “knowledge management” approach to executing the mission.
- A highly focused and phased approach to its objectives.
- A procedurally rigorous approach to quickly and effectively managing numerous technology-related requests.
- An independent and transparent approach to managing the many and varied interest groups.

The implementation of these principles is further elaborated below and in the main proposal.

**Advancing the mission of the Climate Technology Centre and Network will require a multifaceted, adaptive and efficient organisation capable of managing large information flows.** Efforts by developing countries to mitigate climate change, or adapt to its impacts will rely on a broad and deep technology foundation which also recognises the inter-linkages between climate change and societal concerns such as endemic poverty, food supply and public health. It will also require the ability to access and manage information, knowledge and know-how. DNV will make use of its in-house technology expertise and advanced knowledge management techniques to build a strong and dynamic Climate Technology Centre and Network.

**DNV will build a Climate Technology Centre and Network that creates trust and confidence among its stakeholder and is broad ranging and inclusive.** Enhanced action on the development and transfer of technologies requires recognising the importance of public-private partnerships and the necessity for inclusion of all stakeholders. The DNV Network, which is global in nature and cuts across a wide variety of industries and sectors, will be used as a starting point for building the Climate Technology Centre’s Network. Utilizing DNV’s extensive global network of in-country offices, DNV will be able to further develop an inclusive Network that covers a broad range of actors from regional and national financial institutions to regional and local organisations focusing on those most vulnerable to the impacts of climate change. Outreach at the international level will also be a key focus of the Director and senior staff in order to ensure cooperation and collaboration between programmes.

**A phased approach with ambitious milestones will be an important factor in the long term success of the Climate Technology Centre and Network.** In order to establish the Climate Technology Centre and Network in a quick and efficient manner, DNV recommends adopting a management plan with a four-phased approach, and a scope of work that expands over time. Once short-listed, DNV will commence the first phase, including a global search to recruit a highly qualified candidate to lead the Climate Technology Centre and Network. DNV will also secure a core group of interim staff from within DNV to enable the rapid start-up of the Climate Technology Centre and Network. In phase 2, the Climate Technology Centre and Network will be launched and focus on staffing, modalities and procedures, and the structuring of the Network and knowledge management systems. In the third phase, requests for assistance from developing country Parties will be accepted based on the agreed scope of work and in accordance with modalities and procedures established under phase 2. By the second year of operation, the Climate Technology Centre and Network’s scope of work should expand (phase 4).

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**Regional hubs are a necessary element of the Climate Technology Centre and Network.** Ideally, regional hubs would be in place from the beginning of Climate Technology Centre operations, but the ability to support regional hubs will be based on available resources. DNV will, however, make use of its regional offices to support the work of the core Climate Technology Centre staff as needed. DNV has identified four countries where regional hubs could most significantly advance CTC&N objectives: Brazil, India, China, and South Africa. All four hubs can be established using existing DNV infrastructure.

**A focused knowledge management approach is a core component of DNV's proposal.** DNV's proposed Knowledge Management System will house information on products, services, and partners in the Network, and serve as a technology clearing-house. Managing and accurately utilising the vast amounts of knowledge relevant to technology transfer and diffusion issues will be important to avoid duplication of efforts and to effectively advance the goals of the Climate Technology Centre and Network. The Knowledge Management System will ensure the ability of the Climate Technology Centre to respond efficiently to requests using its Network as well as numerous sources of information relevant to the development of climate mitigation and adaptation technologies. State of the art tools and techniques will be applied to increase the usability of available knowledge, and social interaction systems will help facilitate the interface between support requesters and knowledge providers.

**Sharing knowledge is a key driver of progress; therefore capacity building is an important function of the Climate Technology Centre and Network.** Capacity building activities will need to be tailored to different national circumstances, sectors and technologies. They will need to be interactive, draw from lessons learned and best practices, and be available in formats that are easy to access and understand. DNV has extensive experience in training and capacity building from existing academies and technology centres. DNV's experience as an educator and manager of knowledge will ensure that capacity building activities are targeted and appropriate.

**DNV's approach to the establishment of the CTC&N is based on a thorough understanding of how technologies are developed and how they can best be implemented to provide for a safe and sustainable future from both local and global perspectives.** DNV's capabilities underpinning this proposal are core competencies in areas such as mitigation and adaptation technologies, technology qualification, and knowledge management. DNV deploys its expertise in many different ways, including feasibility studies, safety risk assessments, environmental impact assessments, reliability studies, technical verifications, asset management, project risk management and capacity building. . DNV, as a host organisation, has extensive technical expertise that will support the success of the Climate Technology Centre and Network, e.g. small and large scale renewable energy solutions, electric transmission and distribution systems, and energy efficient technologies

**As an independent foundation, DNV is technology neutral and uniquely placed as an interface between technology providers, research and university organizations, and other governmental and non-governmental entities.** It has the independence required to develop a high degree of trust between stakeholders that will encourage openness, communication and the sharing of best practices. The approach presented in this proposal draws on DNV's expertise and experience and will ensure that the

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Climate Technology Centre and Network will be at the forefront of efforts to enhancing the development and transfer of technologies to developing countries.