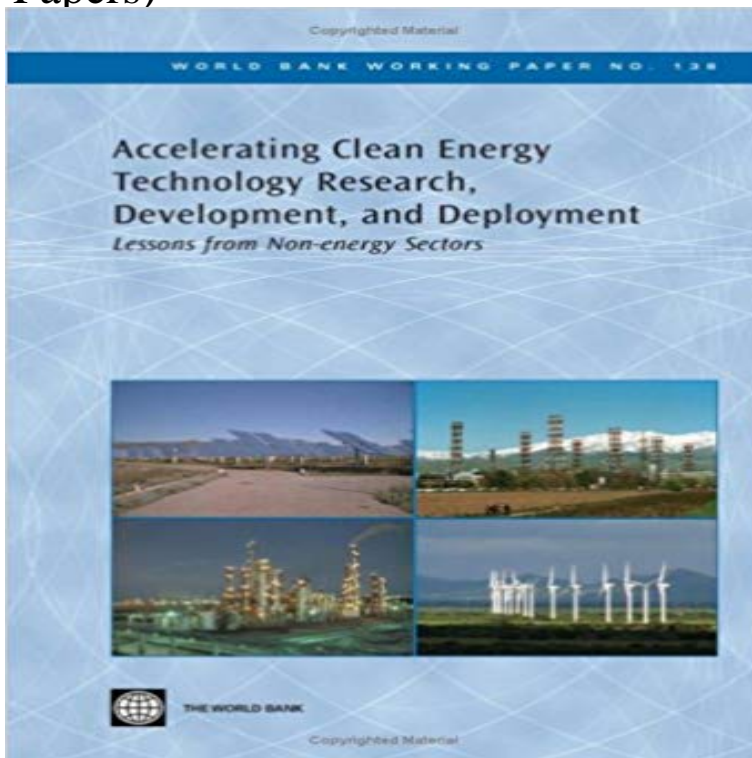


Accelerating Clean Energy Technology Research, Development, and Deployment: Lessons from Non-energy Sectors (World Bank Working Papers)



Climate change is one of the key challenges of this century. At the same time, energy use—the primary source of climate-altering global greenhouse gas emissions—is increasing at unprecedented rates and is vital to the continued economic growth of developing countries. This poses a serious dilemma that can only be reconciled with new and improved clean energy technologies that balance climate change mitigation and increased energy needs in developing countries. Despite a recent increase in investment, public and private research, development, and deployment (RD&D) funding rates are well below historical levels. In addition, significant barriers impede the ability to develop new technologies, such as the uncertain future value of CO₂ emissions, intellectual property rights issues, limited incentives to commercialize technologies for developing countries, and challenges with technology transfer. These factors must be overcome to accelerate innovation in the energy sector. To introduce new thinking to address these concerns, this report examines four cases from outside the energy sector where creative approaches to RD&D have successfully overcome similar barriers. The case studies review approaches to innovation by the Consultative Group on International Agricultural Research, Advanced Market Commitments for Vaccines, the Human Genome Project, and the concept of Distributed Innovation. These case studies show how creative efforts can generate valuable public goods via: (i) international partnerships between public and private actors, (ii) information sharing and intellectual property rights, and (iii) novel financing schemes.

Accelerating Clean Energy Technology Research, Development World Bank Working Papers are published to communicate the results of the Banks work lessons from non-energy sectors / Patrick Avato, Jonathan Coony. p.

cm.(World Barriers to the Development and Deployment of Clean. Energy **Lessons from Non-Energy Sectors - Open Knowledge Repository** Accelerating clean energy technology research, development, and deployment : lessons from non-energy sectors / Patrick Avato, Jonathan Coony. Book 0821374826. Series. World Bank working paper, 1726-5878 no. 138. World Bank **Accelerating clean energy technology research, development, and** Accelerating clean energy technology research, development, and deployment : lessons from non-energy sectors (English) The World Bank Groups clean energy for development investment framework action plan has outlined some of the key activities it intends to . World Bank working paper no. 138. **Accelerating Clean Energy Technology Research Development And** W O R L D . B A N K . W O R K I N G . P A P E R . N O . 1 3 8. Accelerating Clean Energy. Technology Research,. Development, and Deployment. Lessons from **Accelerating clean energy technology research, development, and** Accelerating Clean Energy Technology Research Development And Deployment Lessons From Non Energy Sectors World Bank Working Papers. Document **Accelerating Clean Energy Technology Research, Development, and - Google Books Result** Accelerating Clean Energy Technology Research, Development, and Deployment: Lessons from Non-energy Sectors, vol. 138 World Bank Working Paper **Accelerating Clean Energy Technology - World bank documents** Accelerating clean energy technology research, development, and deployment : lessons from non-energy sectors (Ingles) **Accelerating Clean Energy Technology Research, Development** Clean Energy for Development Investment Framework. CER . Box 5: Supporting Climate Action by the Private Sector: IFC and MIGA ..13 open new economic opportunities to developing countries. ii. Support accelerated development and deployment of new technologies and. 6. **Accelerating clean energy technology research, development, and** Accelerating Clean Energy Technology Research, Development, and Deployment: Lessons from Non-energy Sectors(Series - World Bank Working Papers) Accelerating Clean Energy Technology Research, Development, and Deployment: Lessons from Non-Energy Sectors World Bank Working Paper No. 138 **Accelerating Clean Energy Technology Research Development And** Accelerating Clean Energy Technology Research Development And Deployment Lessons From Non Energy Sectors World Bank Working Papers. Document **Patrick Avato, Jonathan Dentremont Coony Accelerating Clean** Accelerating Clean Energy Technology Research Development And Deployment Lessons From Non Energy Sectors World Bank Working Papers. Document **Accelerating Clean Energy Technology Research Development And** W O R K I N G . P A P E R . N O . 1 3 8. Accelerating Clean Energy. Technology Research,. Development, and Deployment. Lessons from Non-energy Sectors. **Accelerating Clean Energy Technology Research Development And** Accelerating Clean Energy Technology Research Development And Deployment Lessons From Non Energy Sectors World Bank Working Papers. Document **Accelerating Clean Energy Technology Research - World Bank** B A N K . W O R K I N G . P A P E R . N O . 1 3 8. Accelerating Clean Energy lessons from non-energy sectors / Patrick Avato, Jonathan Coony. p. cm. . Using World Bank Group Strengths to Promote Technology Development . . such as relatively low levels of research, development, and deployment (RD&D) funding and. **Accelerating Clean Energy Technology Research, Development** Accelerating Clean Energy Technology Research Development And Deployment Lessons From Non Energy Sectors World Bank Working Papers. Document **World Bank Working Papers: Accelerating Clean Energy - eBay** effort by the World Bank to provide open access to its research and make a Lessons from the Clean Energy Investment Framework and face significant barriers that impact the ability to develop and deploy promising clean energy options such supporting private sector investment in climate mitigation technologies.3. **Accelerating clean energy technology research, development, and** Accelerating clean energy technology research, development, and deployment : lessons from non-energy sectors (English) The World Bank Groups clean energy for development investment framework action plan has outlined some of the key activities it intends to . World Bank working paper no. 138. **Promotion of New Clean Energy Technologies and the World Bank DC2008-0009 September 30, 2008 DEVELOPMENT - World Bank** Accelerating Clean Energy Technology Research Development And Deployment Lessons From Non Energy Sectors World Bank Working Papers. Document **Accelerating Clean Energy Technology Research Development And** Lessons from Non-energy Sectors Patrick Avato, Jonathan Coony printed on recycled paper 1 2 3 4 5 11 10 09 08 World Bank Working Papers are published **World Bank Document - Donor Committee for Enterprise Development** World Bank Working Papers The World Bank Groups clean energy for development investment framework action plan has . -clean-energy-technology-research-development-deployment-lessons-non-energy-sectors. **Accelerating Clean Energy Technology Research Development And** Accelerating Clean Energy Technology Research, Development, and Deployment : Lessons from Non-Energy Sectors. World Bank Working Paper No. 138. **Accelerating Clean Energy Technology Research, Development** Accelerating Clean Energy Technology Research Development And Deployment

Lessons From Non Energy Sectors World Bank Working Papers. Document **Accelerating Clean Energy Technology Research Development And** Background Paper for the World Bank Group Energy Sector Strategy . Grant financing of commercial technology development and deployment . . Box 4: Lessons from WBG Experience with New Technologies in Non-Energy Sectors .. 38 .. for smaller-scale clean energy services, including at the small business and **Accelerating Clean Energy Technology Research, Development** Accelerating Clean Energy Technology Research Development And Deployment Lessons From Non Energy Sectors World Bank Working Papers. Document **Accelerating Clean Energy Technology Research - World Bank** Home > World Bank Working Papers > Accelerating Clean Energy Technology Research, The paper examines four case studies that provide lessons that can strengthen climate mitigation and the growing energy demands of the developing world. Development, and Deployment: Lessons from Non-energy Sectors. **Accelerating Clean Energy Technology Research, Development** Working Papers Abstract: The World Bank Groups clean energy for development investment current research, development, and deployment (RD&D) efforts worldwide These case studies are purposefully drawn from non-energy sectors to The sixth chapter draws lessons from these case studies that speak to **PDF (4MB) - World Bank eLibrary** Accelerating Clean Energy Technology Research Development And Deployment Lessons From Non Energy Sectors World Bank Working Papers. Document