

CURRICULUM VITAE



Name: DILLAN PATEL
Company: DHInfrastructure
Position: Analyst
Years experience: 3
Citizenship: United Kingdom

SUMMARY OF EXPERIENCE

Dillan Patel has experience in foreign development aid and economic analysis. He has a BA in International Relations from the College of William & Mary. Prior to joining DHInfrastructure, Dillan worked as a Research Assistant for AidData, a research organization that tracks development aid to promote transparency and informed decision-making. In collaboration with AidData and World Bank affiliated staff, Dillan conducted a research project studying poverty in Pakistan through the lens of political economy. The findings were published on AidData's blog and is now cited by other academic researchers. Through his studies at the College of William & Mary, Dillan has developed quantitative skills such as big data analysis, spatial analysis and econometrics.

COUNTRIES OF EXPERIENCE

United States, China, Lesotho, Armenia, Burkina Faso, Burundi, Cameroon, Central African Republic, Chad, Congo, The Democratic Republic of the Congo, Cote d'Ivoire, Ethiopia, Gambia, Guinea, Kenya, Madagascar, Malawi, Mali, Mauritania, Mozambique, Niger, Nigeria, Senegal, Sierra Leone, South Africa, Tanzania, Uganda, Zambia, Global, Albania, Bosnia and Herzegovina, Kazakhstan, North Macedonia, Serbia, Bangladesh, Kiribati, Dominican Republic

LANGUAGES

Language	Reading	Speaking	Writing
English	Good	Good	Good
French	Good	Good	Good
Spanish	Fair	Fair	Fair
Italian	Fair	Fair	Fair
Gujarati	Fair	Fair	Fair

PROFESSIONAL EXPERIENCE

PERIOD	EMPLOYER AND POSITION	RESPONSIBILITIES
Jan 2017 - Current	DHInfrastructure Analyst	Perform research and analyze findings to synthesize portions of key deliverables. Collaborated with a team to classify aid projects from OECD donors to support tracking of financial flows and generate data for academic research, ultimately allowing for better informed policy making. The AidData activity classification system builds upon the OECD Creditor Reporting System (CRS) sector and purpose codes. Tracking activities provides not only a wider picture of development resource flows, but also a deeper understanding of what is taking place.
Jan 2014 - Jan 2016	AidData Research Assistant	

PROJECT EXPERIENCE

Best Practices in Municipal Broadband PPP, 2016-2016

Country: United States
Client: Leverett Municipal Light Plant
Role: Analyst
Sector: Public Private Partnerships, Telecommunications

LeverettNet is a Fiber-To-The-Home (FTTH) broadband network serving the Town of Leverett, Massachusetts, operated by the Leverett Municipal Light Plant (LMLP), which contracts with third parties for the Network Operator, Internet Services Provider (ISP), and maintenance functions. The LMLP wanted a document that would inform policymakers and the general public on Leverett's approach and, in particular, offer information that would help other rural towns considering how best to bring high speed Internet to unserved or underserved populations.

Dillan corresponded with the LMLP board and reviewed contractual arrangements between various parties that compose the "LeverettNet" Public-Private Partnership model. The information gathered was illustrated in a presentation that stakeholders, such as political representatives, internet companies and the public, can use to understand Leverett's innovative approach to municipal broadband.

ADB Green Financing Platform for the Greater BTH Region, 2016-2018

Country: China
Client: Asian Development Bank (ADB)
Role: Project Manager
Sector: Clean Energy

Cities in the greater Beijing, Tianjin, and Hebei (BTH) region of the People's Republic of China (PRC) are some of the country's most polluting. The Government of the PRC has introduced policies to accelerate improvements in air quality and pollution control, but challenges remain, including a limited knowledge of energy efficiency/renewable energy technologies and limited commercial financing for small and medium enterprises to invest in clean energy technologies or projects. The Asian Development Bank (ADB), together with the Government of the PRC has established a green financing platform in which ADB makes loans to a financial intermediary who provides secured and unsecured loans, guarantees, and early stage equity financing to SMEs for renewable energy, energy efficiency, air quality and pollution reduction investments.

Dillan prepared project documentation for several projects under the Air Quality Improvement program, which included an assessment of China's clean energy policies and consumers' access to and demand for various kinds of clean energy. He then created a model to conduct economic and financial analysis of several sub-projects available for financing, testing the results of these analyses among different sensitivity parameters. The economic analysis included quantifying the amount and cost of various pollutants that would be abated under these projects. For the latest project, Dillan developed a monitoring and evaluation framework to link ADB's disbursements to the project's outputs, outcomes, and impacts.

Preparation of SREP Investment Plan for Lesotho, 2017-2017

Country: Lesotho
Client: The World Bank
Role: Analyst
Sector: Clean Energy, Sector Planning, Electricity

The Government of Lesotho requested assistance in the preparation of an Investment Plan (IP), which would be used to apply for renewable energy project funding through the Climate Investment Funds Scaling Up Renewable Energy Program (SREP). The primary objective of the IP was to identify renewable energy projects where SREP resources and other sources of funds could be used to overcome barriers to investment. These projects were identified by building upon existing analyses of renewable energy potential in Lesotho through in-depth resource and financing modeling. Project identification also involved working with a diverse set of national and international stakeholders from industry, academia and government.

Dillan researched Lesotho's energy context including an assessment of demand, supply options, and donor activity in the sector. Dillan then assessed the viability of renewable energy projects in Lesotho. The assessment included running a financial model that calculated the levelized energy costs of each renewable energy option and, from this, developing energy supply curves. He also evaluated the potential social, economic and environmental impacts of the proposed investment opportunities.

PPP Options for Improving Aging Infrastructure in Armenia, 2017-2017

Country: Armenia
Client: Asian Development Bank (ADB)
Role: Project Manager
Sector: Public Private Partnerships, Urban Services

The Government of Armenia and the Municipality of Yerevan asked the Asian Development Bank (ADB) to evaluate whether it would be feasible to finance improvements to certain aging infrastructure through public-private partnerships (PPPs). The Municipality of Yerevan was interested to see if a PPP option was appropriate for improving the condition of elevators in publicly owned condominium buildings, most of which are beyond their expected life. The Government of Armenia also wanted to evaluate the possibility of building a section of highway and procuring railroad rolling stock through a PPP.

Dillan reviewed information about the condition of elevators in Yerevan Municipality to create an estimate of the total cost of rehabilitating old elevators in publicly owned condominium buildings. He researched the typical contracts used in the global elevator industry to inform Yerevan Municipality of PPP options for procuring and maintaining elevators. Dillan also reviewed the Feasibility Study for a section of the proposed highway in Armenia and developed a model to evaluate toll levels at different levels of government subsidy.

Developing an Africa Energy Strategy for the World Bank, 2017-2018

Country: Burkina Faso
Client: The World Bank
Role: Analyst
Sector: Sector Planning, Electricity

The World Bank wanted to compile a set of Country Engagement Notes for 26 African countries, including an overview of past progress, ongoing challenges, and potential areas for World Bank engagement in each country's energy sector. The World Bank wanted the Notes to be incorporated into a regional synthesis report that summarized corporate and regional commitments in Africa as well as the Bank's current engagement strategies. The Notes would be used to inform World Bank operations during the International Development Association (IDA) 2018-2019 period.

Dillan compiled quantitative and qualitative data on energy access, security of supply, operational competence, financial viability, and financing in 26 African countries. He reviewed World Bank studies that discussed the intersectionality of electricity in Sub-Saharan Africa (such as with agriculture, mining, gender, and investment) to understand the challenges and successes within each country. He then developed a set of Notes covering the themes of electricity access, security of supply, operational and financial performance, and maximizing financing that gave an overview of the electricity sector in each country and described potential support that the World Bank could provide to address the challenges in each country. Dillan also helped draft a regional report for the World Bank that consolidated the teams findings to guide the World Bank's engagement in Sub-Saharan Africa.

Developing a Methodology for Assessing Indirect Impacts, 2017-2018

Country: Global
Client: International Finance Corporation (IFC)
Role: Project Manager
Sector: Evaluation

The International Finance Corporation (IFC) wanted to develop an approach for capturing the indirect private investment impacts of their Renewable Energy and Power Advisory Programs. The methodology was needed to assist operations

teams at IFC in evaluating and reporting the indirect results of their market-level and sector-level advisory activities.

Dillan developed research questions for attributing indirect impacts following discussion with operations teams at IFC and review of IFC documents. Dillan used the research questions to create a Monitoring and Evaluation (M&E) framework, which listed the requirements for answering these questions, data sources, and the frequency and time of data collection. Dillan developed a guidance note and standardized data collection instruments, including an investor survey, to aid the operations team in integrating the M&E plan into their existing evaluation methodology.

Piloting a Methodology for Assessing Indirect Impacts, 2018-2019

Country: Albania
Client: International Finance Corporation (IFC)
Role: Project Manager
Sector: Clean Energy, Evaluation, Public Private Partnerships

The International Finance Corporation (IFC) had developed guidance materials and data collection tools to help operational teams in the Renewable Energy and Power Advisory Group assess and report the indirect impacts of their advisory services. The aim of this project was to train IFC operational teams in each market to use the tools and guidance materials to collect data on market development and stakeholder sentiment and create a credible argument that attributes market development to IFC's intervention.

Dillan interviewed IFC teams about their advisory services projects to understand each project's activities and timelines of outputs. He then developed theories of change to demonstrate the logic of each intervention and its role in market development. He identified the data that would be needed to show evidence for indirect impact claims following this logic and collected and analyzed the data.

Sierra Leone Regulatory Strengthening and Tariff Development, 2017-2018

Country: Sierra Leone
Client: Millennium Challenge Corporation Coordinating Unit (MCCU)
Role: Analyst
Sector: Policy and Regulation, Electricity, Water and Sanitation

MCC wanted to support the Commissioners and technical staff of Sierra Leone's Electricity and Water Regulatory Commission (EWRC) in developing the skills and knowledge necessary for EWRC to become an effective, independent, and transparent regulator for the electricity and water sectors. Specifically, MCC wanted to develop a training program for EWRC's Board of Directors; develop a business plan for the regulator; develop key regulations and tariff methodologies for both sectors; provide substantial training and capacity building to EWRC staff; and provide ongoing advisory support through an embedded regulatory advisor. MCC hired AARC, with DHInfrastructure as subcontractor, to implement the project.

Dillan provided research support to the project. He collected information on the regulatory environment in similar countries, including tariff regimes, grid codes, and licensing. He also contributed to a presentation on best practice for regulators regarding utility rate-making.

Project Preparation for Transmission Grid Expansion in Bangladesh, 2017-2018

Country: Bangladesh
Client: Asian Development Bank (ADB)
Role: Analyst
Sector: Clean Energy, Electricity

The Asian Development Bank (ADB) needed an advisor to review project documentation for a proposed expansion of a transmission line in southwest Bangladesh that would provide grid stability and evacuation of power from generation centers to load centers.

Dillan reviewed project preparation documents, including the initial environmental assessment and Report and Recommendation to the President. He also assessed the financial and economic models for the project and reviewed

reports on the legal, regulatory, and administrative framework of Bangladesh's power sector.

Economic Analysis of Elder Care in China, 2018-2019

Country: China
Client: Asian Development Bank (ADB)
Role: Project Manager
Sector: Public Private Partnerships, Sector Planning

The Asian Development Bank (ADB) is working with the provincial government of Guangxi in China to design a three-tiered elderly care system that provides care at home, in the community, and at residential and nursing facilities. This system will integrate elderly care services with health care. ADB wanted to assess the economic viability of five such facilities, one of which was being procured as a public-private partnership (PPP).

Dillan reviewed the surveys and forecasted demand for elder care in Guangxi. He used this analysis to estimate the economic viability for four public elder care facilities, including one delivered under a PPP arrangement. He prepared documentation of the loan and identified risks to the project.

Preparation of the SREP Investment Plan for Kiribati, 2018-2018

Country: Kiribati
Client: The World Bank
Role: Analyst
Sector: Clean Energy, Sector Planning

The Government of Kiribati requested assistance in the preparation of an Investment Plan, which would be used to apply for renewable energy project funding through the Climate Investment Fund's Scaling Up Renewable Energy Program (SREP). The primary objective of the Investment Plan was to identify renewable energy projects where SREP resources and other sources of funds could be used to overcome barriers to investment.

Dillan drafted the background section of the Investment Plan including an analysis of the economic and demographic situation in Kiribati as well as an overview of the country's energy sector. He also drafted a position paper for the Government of Kiribati discussing the advantages and disadvantages of renewable energy public-private partnerships. As a final output, he designed a PowerPoint Presentation for the Government that summarized the outputs of the Investment Plan in order to present the proposed investment package before the SREP Subcommittee.

Litigation Related to BOO Power Plant Tender, 2018-2019

Country: Dominican Republic
Client: Confidential Private Client
Role: Analyst
Sector: Public Private Partnerships, Electricity, Litigation support

A large US investor-owned utility wanted to rebut an expert report alleging damages related to a build-own-operate transaction in the Dominican Republic.

Dillan researched the history of the energy sector and privatization process in the Dominican Republic, and how it related to the utility's entry into the country. He used this research to draft the background section of the expert report. He also reviewed the history of the arbitration case and damages claim to identify flaws in the nature and quantification of alleged damages.

Financing Disaster Resilience for Infrastructure, 2019-2019

Country: Global
Client: The World Bank
Role: Project Manager

Sector: Public Private Partnerships, Policy and Regulation

The World Bank's Disaster Risk Financing and Insurance Program (DRFIP) wanted (1) to develop a technical note on how policymakers identify, analyze, and treat disaster risk; and (2) to consider which financial instruments (for example, insurance or warranties) were best suited to ensure rapid recovery of infrastructure services after a disaster. This technical note would serve as a technical input to the 2019 Asia-Pacific Economic Cooperation (APEC) Working Group on Disaster Risk Financing and Insurance.

Dillan conducted an extensive literature review and met with World Bank staff to draft a technical note for the 2019 Asia-Pacific Economic Cooperation (APEC) Finance Minister's meeting. He discussed how disaster risks are unique to other infrastructure risks and analyzed the advantages and disadvantages of different types of risk mitigation and allocation. He researched case studies of countries that have been successful at managing disaster-related risks while ensuring cost-effective and rapid reinstatement of infrastructure services.

CERTIFICATION

I, the undersigned, certify that to the best of my knowledge and belief, these data correctly describes my qualifications, my experience and me.



24/07/2019

**Signature of Staff Member or Authorised
Representative of Firm**

Date (Day/Month/year)