

Asia Clean Energy Partners



Asia Clean Energy Partners

Connections. Insights. Impact.

CORPORATE QUALIFICATIONS



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Corporate Qualifications



Who We Are

[Asia Clean Energy Partners Limited](#) (ACE Partners) is an international firm that provides consulting and advisory services related to the energy sector with an emphasis on understanding markets, developing networks of expertise and knowledge; and evaluating and designing clean energy initiatives and programs.

ACE Partners has its primary office in Bangkok, Thailand, allowing it to provide regional coverage with expert consultants and advisors across Southeast and South Asia and the Pacific. The firm helps clients accelerate clean energy deployment to achieve greater speed and scale.



The Needs We Serve

Governments, businesses, and regional organizations increasingly recognize the need to scale up efforts to transform the energy system, taking into account new advances in technologies and business models, the need to increase investments in renewable energy and energy efficiency, and the development and implementation of net-zero strategies. However, they do not always have the in-house capacity or expertise to design, socialize, and implement their initiatives. ACE Partners has been established to fill this gap. We support the design and execution of effective clean energy initiatives, with a focus on four main areas:

- a) **creating insights** through research and analytics;
- b) **designing and executing** projects and initiatives;
- c) **connecting stakeholders** with the knowledge, technology, and finance to achieve results; and
- d) **building knowledge and action platforms** that facilitate networking, connections, and impact.

Our Expertise



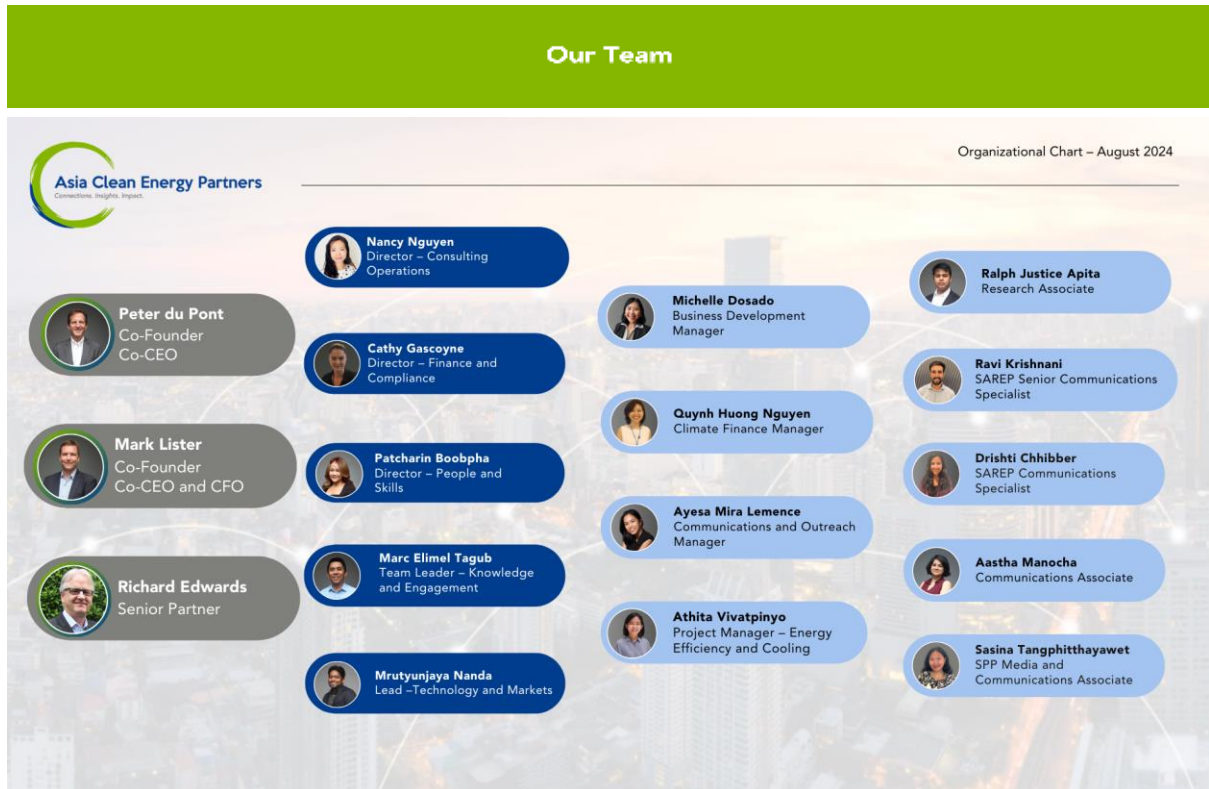
The partners who lead ACE Partners have decades of implementation experience, backed by extensive expertise on clean energy financing, business development and climate finance in the Asia-Pacific region, working with a cross-section of stakeholders- policymakers, experts and thought leaders, private sector investors and businesses, and civil society organizations.

Our team offers a verifiable track record of delivering excellent results and tangible impacts for our clients.

Our expertise includes:

- **deployment of national and regional programs** in climate and clean energy finance and market development
- **design, implementation, and evaluation** of intelligent, effective, and resilient clean energy strategies
- **regional communications** leadership and support
- **regional program coordination** and building communities of practice

Our key strengths include (a) **first-hand insights** into the clean energy ecosystems and institutions operating in Asian markets; (b) **deep understanding of the opportunities** of the future energy system; (c) **expertise and connections** to enable organizations to make their desired transition. The company has wide and deep networks in key Asian target markets, which can be leveraged as local delivery teams towards diverse project objectives.



Project Portfolio

Project title: USAID Southeast Asia Smart Power Program (SPP)
Dates: April 2022 – April 2027
Clients/Partners: US Agency for International Development (USAID)
Countries: Cambodia, Laos, Malaysia, Myanmar, Philippines, Thailand, Vietnam
Project description:

The Southeast Asia Smart Power Program (SPP) (2022-27) is USAID’s flagship regional power program in Southeast Asia, which aims to support and accelerate Asia’s clean energy transition through a robust approach that taps the joint resources, expertise, and technology of the United States government and the private sector.

ACE Partners has been subcontracted by Deloitte to contribute to:

- **Provide Program Support:** Provide comprehensive support on Task 2--Energy Efficiency: Southeast Asia’s Energy Security Cornerstone that is principally concerned with strengthening capacity to act on standards and labelling, utility demand side management programs, and bulk procurement of energy efficiency technologies. There is a focus in this work on support to Laos in both MEPS and industrial energy efficiency applications, and on load forecasting for both EV expansion in Thailand and grid-scale solar installations in Vietnam.
- **Website and Social Media Management:** Manage the USAID Southeast Asia EDGE Hub, aiming to enhance development and growth through energy, including content management and website maintenance. Run social media and outreach campaigns to improve external visibility of the SPP program, especially with youth and women in the region.
- **Stakeholder Coordination:** coordinate with stakeholders, including government officials, private sector leaders, and civil society representatives, to ensure effective communication, collaboration, and engagement with stakeholders to build stronger relationships and achieve shared goals.
- **Event and Workshop Management:** Help organize USAID events on regional platforms, including managing USAID involvement with the annual ADB Asia Clean Energy Forum; organizing the USAID Power Sector Learning Series; and convening energy training workshops and other capacity-building activities to support the program's objectives, across different SPP focus areas including methane, electric vehicles, and industrial energy efficiency.

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Project title: USAID South Asia Regional Energy Partnership (SAREP)
Dates: July 2021 – June 2026
Clients/Partners: United Nations Agency for International Development (USAID)
Countries: Bangladesh, Bhutan, India, Maldives, Nepal, and Sri Lanka.
Project description:

The purpose of the South Asia Regional Energy Partnership (SAREP) is to improve access to affordable, secure, reliable, and sustainable energy for all in South Asia through expanded, transparent, and efficient markets for energy services, products, and resources. SAREP will support accelerated economic development, self-reliance, livelihoods, health, and productivity throughout the region.

ACE Partners supports two SAREP workstreams:

1. **Communications, Outreach, Knowledge Management.** ACE Partners works with USAID/India to enhance coordination among the initiative’s various stakeholders and leads SAREP communication and outreach efforts. Assignments include:

- Development and implementation of a strategy for stakeholder engagement across six South Asian countries: Bangladesh, Bhutan, India, Maldives, Nepal, and Sri Lanka.
 - Development and implementation of a comprehensive communication and outreach strategy for the SAREP program
 - Leveraging USAID/India’s existing Steering Committee and Advisory Board and linking the program to the newly established US-Indo Climate and Clean Energy Partnership
 - Building on the existing South Asia Regional Energy Hub (SAREH) and developing it into a platform for regional sharing of data, reports, and analyses, as well as for knowledge-sharing related to best practices and case studies on clean energy activities in the region
 - Leading information dissemination and knowledge-sharing around SAREP activities to internal and external audiences, including (a) organizing information-sharing events; (b) multidisciplinary site visits; brown bag and knowledge-sharing events; social media posts and campaigns; technical presentations on project activities and impacts; and media engagement
2. **Climate and Green Financing.** ACE Partners supported the SAREP team in marketing a new Climate Smart Fund in India, establishing connections with international investors for the fund. ACE Partners provided:
- Identification of investors and relevant officials for sending out the teasers, information memorandum and other marketing material.
 - Coordination with interested investors for organizing one-on-one discussions with USAID, the fund managers, and preparation of reports on each meeting.
 - Preparation of Information memoranda including investor pitchbooks, sector assessments and other marketing-related material.

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Project title: **Outreach and Content Maintenance for SIPET (Southeast Asia Information Platform for the Energy Transition) Phase II**

Dates: Apr 2024 - Oct 2025

Clients/Partners: **GIZ (Deutsche Gesellschaft für Internationale Zusammenarbeit GmbH)**
German Federal Ministry for Economic Affairs and Climate Action (BMWK)
Agora Energiewende
NewClimate Institute
Energy Research Institute (ERI)
Institute for Climate and Sustainable Cities (ICSC)
Institute for Essential Services Reform (IESR)
Thailand Development Research Institute (TDRI)

Countries: Indonesia, Philippines, Thailand, Vietnam

Project Description:

The Southeast Asia Information Platform for the Energy Transition (SIPET) is an initiative under the Clean, Affordable, and Sustainable Energy for Southeast Asia (CASE) project. SIPET is funded by the German Federal Ministry for Economic Affairs and Climate Action and implemented by GIZ. The platform is dedicated to accelerating the energy transition in Southeast Asia by providing data, tools, and resources. SIPET focuses on fostering knowledge sharing, innovation, and collaborative solutions among stakeholders in the region. Key components of SIPET include the Project Mapping Tool, Power Sector Resources, and the Knowledge Hub. These elements collectively offer a comprehensive repository of clean energy projects, analytical tools to monitor energy progress, and a central source of the latest news and research on clean energy.

ACE Partners supports the project through:

1. **Project management and content maintenance:** Overseeing day-to-day project management, coordinating website improvements, quality control, and content updates for SIPET’s tools and resources.
2. **Outreach and public relations:** Developing monthly newsletters, managing social media presence, creating promotional materials for conferences and meetings, and producing a teaser video to enhance visibility and engagement.
3. **User experience improvement:** Providing advisory services to streamline SIPET's tools, improve user experience, and ensure the platform remains focused on the most utilized resources.

Project title: Clean Energy Project Assessments
Dates: November 2021 – September 2025
Clients/Partners: United States Trade and Development Agency (USTDA)
Country: Subregional/ Multi-country
Project description:

The U.S. Trade and Development Agency (USTDA) is a foreign assistance agency that delivers its program commitments through grants and contracts. USTDA requires services to support its decision-making relative to the funding of activities to support Energy Opportunities in Asia and the Pacific.

ACE Partners—together with its partner, Emerging Market Group, provided preliminary project assessments for seventeen project reports and recommends ten activities for USTDA funding consideration of feasibility studies, technical assistance activities, and /or pilot projects in the energy sector. ACE Partners specifically spearheaded the research in market entry and competition, environmental impact, and climate resilience screening sections of the reports. Additionally, ACE Partners contributed valuable technical insights for RE technologies. The collaboration between ACE Partners and Energy Markets Group have resulted with the following comprehensive project assessments:

| Clean Energy Technology | Project Assessments |
|--|---|
| Solar Energy | 250 MW of Multiple Floating Solar Projects in Indonesia |
| Wind Energy | <ul style="list-style-type: none"> • 111.3 MW Wind Farm in Sumbawa, Indonesia • 300 MW Offshore Wind Energy Project in Banyuwangi, Indonesia |
| Geothermal Energy | Geothermal 2- Phase and Steam Dominated GreenLoop® Pilot in Leyte, Philippines |
| Ocean Thermal Conversion Technology | Ocean Thermal Energy Conversion (OTEC) Power Plants in India |
| Waste-to-Energy | Waste-to-Energy Pilot in Lombok Island, Indonesia |
| Energy Storage | <ul style="list-style-type: none"> • Three Battery Energy Storage Systems (BESS) Projects for Renewable Energy Integration in the State of Assam, India • Retrofitting of Vajiralongkorn Dam Pumped Storage Hydropower Plant in Thailand |
| Nuclear Energy | Feasibility Study for Small Modular Reactor (SMR) in the Philippines |
| Materials for Clean Energy Technology | <ul style="list-style-type: none"> • Ore-to-Nickel/Cobalt Processing for Battery Grade Materials Project • Copper Mining Project in Davao de Oro, Philippines |
| Hybrid Renewable Energy Systems | <ul style="list-style-type: none"> • Jakarta Mass Rapid Transit (MRT) - Proposed 46MW Renewable Energy Initiative • Solar Integration and Grid Modernization in Batam Island, Indonesia • 500 kW Solar PV and 2 MW Solar-BESS Hybrid Project in Federated States of Micronesia • 8.5 MWp Solar PV and 3 MW BESS for Nadi and Nasouri Airports in Fiji |
| Power Grid | <ul style="list-style-type: none"> • Renewable Energy Mini-grids in Terluar, Terpencil, and Tertinggal in Indonesia • ASEAN Interconnection Grid linking Sumatera, Indonesia and Peninsular Malaysia and in Kalimantan, Indonesia and Sabah, Malaysia |

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Project title: **Asia and the Pacific’s Contribution at the G20 - Clean Energy Technology Manufacturing Supply Chain Assessment**

Dates: April 2024 – July 2024

Clients/Partners: Asian Development Bank (ADB)

Countries: Regional

Project description:

ADB’s TA-6928 aims to accelerate the clean energy transition in developing Asia and the Pacific by focusing on the development of clean energy technology manufacturing and critical mineral supply chains. With a growing demand for renewable energy and energy efficiency improvements, there is a need to diversify the availability of critical minerals to support the region’s clean energy initiatives.

ACE Partners’ scope of work:

1. Conducted a readiness assessment report on the current status of manufacturing supply chains of key renewable energy technologies in developing Asia.
2. Provided policy options and support strategies for building resilient, sustainable, affordable, and inclusive clean energy technology manufacturing and critical mineral supply chains.
3. Prepared a brief on the development of clean energy technology manufacturing and critical mineral supply chains in the region.
4. Highlighted progress and strategic approaches of developing member economies in clean energy technology manufacturing.
5. Supported the preparation of the final report and presentation on the Enhanced Technology Readiness Assessment (ETRA) for clean energy technology manufacturing

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Project title: **Communications Strategy and Support to the Implementation of Communication Activities for Clean, Affordable and Secure Energy for Southeast Asia (CASE)**

Dates: December 2020 – February 2024

Clients/Partners: Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

Countries: Indonesia, Philippines, Thailand, Vietnam

Project description:

GIZ is implementing its Clean, Affordable, and Sustainable Energy for Southeast Asia (CASE) program from 2020 to 2024. CASE intends to change the narrative in the power sector in SEA towards an evidence-based energy transition, aiming to increase ambition with regard to climate change.

ACE Partners—together with its global communications and public relations firm Edelman—is helping to design regional and national communication strategies with sound and measurable action plans in order to raise awareness across different target groups (energy stakeholders, non-energy stakeholders, and the general public) around the question of energy transition and the necessity for Southeast Asian countries to move toward an energy system ensuring dynamic economic growth while being compatible with increased ambitions with regard to climate change. Assignments include:

- Development of an Interactive Knowledge Platform on the Energy Transition for Southeast Asia ([SIPET - the Southeast Asia Information Platform for the Energy Transition Partnership](#)) Phase I
- Conducted Communications Assessments for Indonesia, Philippines, Thailand, Vietnam
- Designed the Southeast Asia Regional Communications Strategy and Plan for the Energy Transition
- Designed the Southeast Asia Regional Communications Plan
- Designed the National Communications Strategies for Indonesia, Philippines, Thailand, Vietnam
- Designed the National Communications Plans for Indonesia, the Philippines, Thailand, and Vietnam.

Project title: **Training on Developing and Financing Sustainable Energy Projects**
Dates: February 2024 – May 2024
Clients/Partners: United Nations Economic and Social Commission for Asia and the Pacific
Countries: Thailand
Project Description:

This regional training programme, supported by the Energy Foundation China, sought to support capacity development amongst ESCAP member States – with an emphasis on ASEAN member States – to design and develop projects and to attract funding for the energy transition. The training workshop aimed to enhance the capacity of policymakers, academia, and private sector in the implementation of sustainable energy actions and access to external funding opportunities by offering a targeted programme related to key recommendations of SDG 7 roadmaps and national cooling action plans. It consisted of a two-day hybrid virtual and in-person workshop in Bangkok, Thailand.

Asia Clean Energy Partners with support from the ESCAP Energy Division delivered the following tasks:

- Development of an inception report containing the planned approach to the assignment.
- Development of draft materials for presentation collaboratively with ESCAP representatives including PowerPoint slides and other background documents.
- Facilitation of the two-day workshop and submission of the workshop report containing the agenda, list of participants, discussions and any other material/information relevant to the outcome of the workshop.

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Project title: **WWF Report Launch Event**
Dates: November 2023 – February 2024
Clients/Partners: World Wildlife Fund (WWF)
Countries: Thailand
Project description:

Intelligent Energy Systems (IES), in collaboration with WWF and with support from USAID, prepared the report titled "Towards a Green and Inclusive Power Sector in the Greater Mekong." The engagement included soliciting input from Civil Society Organizations (CSOs) in Cambodia, Laos, Myanmar, Thailand, and Vietnam. The report assesses the environmental and societal impact of prevailing energy sources such as hydropower and fossil fuels within the Greater Mekong Subregion (GMS) while proposing the establishment of a regional power grid.

As part of the initiative, WWF has engaged ACE Partners as a strategic partner to facilitate the report launch event. This event is designed to convene key regional stakeholders, fostering the sharing of findings, and promoting awareness and collaboration on energy-related issues. Furthermore, it involved CSOs from the Energy Innovation Network (EIN) to deliberate on future steps for sustainable power development. The primary objective of the launch was to unveil the report's insights, providing governments, businesses, and civil society in the GMS with the necessary information to make informed decisions for clean, affordable energy.

In addition to empowering stakeholders, the event encouraged cross-border collaboration and dialogue, recognizing that achieving a transition to 100 percent renewable energy requires regional cooperation, aligned regulations, and investment coordination. ACE Partners' support extended to stakeholder outreach, communication, and advice, ensuring the smooth execution of the event. ACE Partners' specific responsibilities include:

- Conceptualization of the launch, complete with a comprehensive concept note and agenda.
- Identification and coordination with key speakers.
- Strategic marketing and outreach endeavors to maximize participation.
- Technical support for both hybrid and in-person components of the event.
- Development of a valuable post-event product for sustained engagement.
- Banners, event printed and digital materials.

Project title: Private Sector Climate Ambition Plan
Dates: November 2023 – December 2023
Clients/Partners: Asian Development Bank
Countries: ADB Developing Member Countries (DMCs)
Project description:

This assignment supports the Asian Development Bank's (ADB) Private Sector Operations Department (PSOD) in crafting an extensive Climate Ambition Plan (CAP) to advance ADB's aspiration of becoming the preeminent "Climate Bank" in Asia and the Pacific. This plan targets the facilitation of \$100 billion in climate financing to ADB's Developing Member Countries (DMCs) between 2019 and 2030, significantly surpassing the initial \$12 billion private sector financing goal.

To execute this task, ADB has engaged ACE Partners to provide technical assistance to PSOD in formulating the CAP. The scope of work includes in-depth desktop research that delves into ADB's historical and ongoing involvement in climate finance, analyzing instruments utilized, institutional capabilities, and comparative evaluations against peer institutions. The project will also scrutinize the current climate finance landscape across DMCs, exploring their National Determined Contributions (NDCs), identifying gaps, opportunities, and potential barriers within sectors earmarked for emission reduction.

ACE Partners' specific responsibilities include:

- **Stakeholder Consultations:** Conducted semi-structured interviews with ADB staff and with selected external stakeholders in five countries: Bangladesh, Indonesia, Mongolia, Philippines, and Vietnam. The goal of the consultations is to provide input to the PSOD Climate Ambition Plan, providing insights into the opportunities and barriers to scaling up climate finance.
- **Strategic Analysis:** Utilized the insights from desk research and consultations to develop an analysis and context for the CAP within broader ADB strategies and plans. This includes aligning with the Climate Change Action Plan, Country Partnership Strategy (CPS), and exploring opportunities for One ADB support on regulatory reforms and research.
- **Desktop Research:** Assessed the current climate finance activities, readiness, and progress across ADB's DMCs, including a high-level examination of the NDC targets of ADB's DMCs, identified climate finance gaps and opportunities, especially in sectors with significant emission reduction potential and any well-known and sector policy or regulatory barriers for a particular industry and country, drawn from the findings of existing sector-specific or country/regional assessments. Additionally, a thorough examination of ADB's historical and current involvement in climate finance was conducted, including instruments and modalities used, experience and capability, and comparative analyses against peer institutions and pertinent benchmarks.

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Project title: Knowledge Management Support: 3D South Asia (Digitally Driven Development: A Knowledge Initiative for South Asia) and SARD Knowledge Spotlight Events
Dates: August 2023 – May 2024
Clients/Partners: Asian Development Bank
Countries: India, Sri Lanka, Bangladesh, Nepal, Bhutan
Project description:

SARD's Knowledge Management Team organized knowledge events to support knowledge sharing and promoted innovation by featuring ADB projects that addressed development problems in South Asia. In response to ADB's New Operating Model (NOM), which identified digital transformation as a key priority, SARD initiated a series of knowledge events that highlighted digital solutions to South Asia's development problems. ACE Partners co-conceptualized 3D (Digitally Driven Development) South Asia, which aimed to facilitate knowledge sharing, innovation, and solutions between ADB and ADB's Developing Member Countries (DMCs). The initiative included interactive webinars, virtual workshops, in-person knowledge events, innovation challenges, targeted training, capacity -building activities, and the dissemination of knowledge products.

ACE Partners supported ADB SARD by:

- Developed the full concept of 3D South Asia aligning with ADB’s operational priorities
- Developed a communication plan to support marketing, outreach, and branding of the KM initiative.
- Organized three 3D South Asia knowledge events, in which one in-person and the two were virtual events, through conceptualization, coordination, marketing and outreach, technical support and post-event reports.

In addition, ACE Partners also supported SARD organized its Knowledge Spotlight events, which featured ADB projects that are not necessarily on digital solutions. ACE Partners handled the project management of two events and led the coordination of speakers, agenda, and marketing.

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Project title: **International Climate Finance Specialist**
Dates: July 2023 – August 2023
Clients/Partners: Asian Development Bank
Countries: India
Project description:

This technical assistance (TA) focuses on ADB’s support for the India Infrastructure Finance Company Limited (IIFCL) in enhancing its operational capacity, particularly in promoting climate finance and strengthening resilience to climate change-related risks.

ACE Partners responsibilities:

- Collaborated with IIFCL’s risk management to develop climate change policies and strategies for transitioning infrastructure projects to a net-zero carbon footprint.
- Created a framework to align IIFCL with India’s green finance priorities and provided training on climate change best practices.
- Developed a climate risk rating approach aligned with international standards and provided guidelines for analyzing infrastructure projects with a climate change focus.

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Project title: **Supporting Climate Action in Finance Sector Operations**
Dates: June 2023 – December 2023
Clients/Partners: Asian Development Bank
Countries: Bangladesh, Indonesia, Mongolia, Philippines, and Vietnam
Project description:

This knowledge and support technical assistance (TA) will support in developing the capacity of developing member countries (DMCs) of the Asian Development Bank (ADB) by strengthening their finance sector’s ability to address climate change impacts and catalyze climate finance to support their transition to a climate-resilient and low-carbon economy. The TA will help the DMCs (i) align their finance sector operations with the goals of the Paris Agreement; (ii) address climate change risks (both physical and transitional risks), which can severely impact the financial stability and resilience of financial institutions and markets; (iii) scale-up climate-focused lending and investment using innovative financing and financial de-risking instruments; and (iv) deploy best government, risk management, and disclosure practices.

In consultation with the ADB team, ACE Partners performed the following tasks:

- Developed a diagnostic methodology and rated guide for assessing the current landscape and enabling the environment to enhance the resilience of the financial system to climate and disaster-related risks.

- Provided a comprehensive assessment of the current landscape of the financial sector in five countries: Bangladesh, Indonesia, Mongolia, Philippines, and Vietnam, based on the in-depth analyses of the industry and the legal and regulatory framework of the financial sector to identify barriers that impede these countries in their push to decarbonize, and enhance understanding of the deployment of climate finance more catalytically.
- Proposed stages to be undertaken for a smooth transition of these countries to become climate-resilient and support the mitigation of the Paris Agreement.

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Project title: **Brand and Communications Strategy for Mission Efficiency**
Dates: May 2023 – December 2023
Clients/Partners: Sustainable Energy for All (SEforALL)
Countries: Global
Project description:

Sustainable Energy for All (SEforALL) is a founding partner of Mission Efficiency, tasked with expediting the worldwide transition to energy-efficient economics. Mission Efficiency is supporting India and exploring the link between an “Energy Efficient Life” emotion-based narrative and campaign with the Lifestyle For Environment (LiFE) campaign. The LiFE campaign aims to encourage individuals to adopt simple daily actions that can have a significant impact on climate change.

SEforALL has engaged ACE Partners to support the development of a brand strategy and emotions-based communications campaign with Mission Efficiency partners to elevate afresh and new energy efficiency narrative for an energy-efficient life. ACE Partners’ services for SEforALL include:

- **Brand and Communications Strategy:** Prepared a strategy for Mission Efficiency and on a modern, uplifting, not reductionist communications approach that brings emotions-based energy-efficient life narrative to the fore.
- **Communications Toolkit and Guidance:** Developed communications toolkits that can be used for training and guiding individuals and organizations to take action.
- **Facilitation:** Facilitated webinars, events, and other activities related to energy efficiency for Mission Efficiency
- **Final Package:** Prepared a final communications package and report detailing activities completed and results to evaluate the effectiveness and impact of the branding efforts and recommendations for achieving greater impact moving forward.

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Project title: **U.S.-Indonesia Joint Workshop and Research on Decarbonizing the Building Sector**
Dates: February 2023 – December 2023
Clients/Partners: Lawrence Berkeley National Laboratory (LBNL)
Countries: Indonesia
Project description:

The Lawrence Berkeley National Laboratory (LBNL) has been tasked with spearheading priority actions on building energy efficiency as part of the Net Zero World initiative launched at COP26. LBNL has identified Indonesia as a partner country to the initiative and sought the assistance of ACE Partners in managing the U.S.-Indonesia Joint Workshop on Decarbonizing the Building Sector, held in Tangerang from 22-24 February 2023. The event was supported by the U.S. Department of Energy (DOE), LBNL, the Indonesian Ministry of Energy and Mineral Resources (ESDM), and the Indonesian Conservation and Energy Efficiency Society (MASKEEI).

The event, which attracted over 150 participants from the building industry, was convened to explore priority areas towards a concrete plan or Roadmap for decarbonization of the buildings sector in Indonesia. The program included a study tour to leading green buildings in the "BSD City" complex in South Tangerang (Greater Jakarta). ACE Partners provided event planning and management services, including setting the agenda, advising on presentation formats, assisting with logistics and registration, identifying speakers and host organizations, collecting and packaging event materials, providing real-time support, and contributing to post-event reporting and analysis.

ACE Partners also supported the rollout of the Net Zero World Initiative's efficient buildings activity in Indonesia through support to the working group formed as an outcome of the Workshop. ACE Partners performed the following tasks:

- Conducted a comprehensive review of key cooling technologies and strategies relevant to the Indonesian context. The technological aspects covered in the report were complemented by a concise, high-level section addressing policies that could expedite the adoption of these technologies. This section focused on the planning framework, energy efficiency policies, and finance and procurement methods, including support for the ESCO sector and bolstering industry capacity.
- Performed cost-benefit analyses to quantify the potential energy burden savings resulting from various measures aimed at enhancing whole-building cooling. This analysis was crucial in justifying investments in the Just Energy Transition Partnership (JETP).

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Project title: **Service Provider to the Southeast Asia Energy Transition Partnership**
Dates: December 2021 – November 2023
Clients/Partners: United Nations Office for Project Services (UNOPS)
Countries: Indonesia, Vietnam, and the Philippines
Project description:

The Southeast Asia Energy Transition Partnership (ETP) supports the delivery of the Paris Climate Agreement on climate change by bringing together government donors, philanthropies, and Southeast Asia (SEA) governments to accelerate energy transition in the region. More specifically, ETP aims to deliver joint action, improved coordination, and effective dialogue to accelerate the Energy Transition in the region by addressing impediments to renewable energy, energy efficiency, and sustainable infrastructure.

ACE Partners has been engaged to provide numerous services to ETP:

- Donor Mapping (December 2022 – November 2023): Reviewed and enhanced the methodology used for data collection in ETP's donor mapping across the countries of operation and the Southeast Asia region. The company was also tasked with developing a reporting system for strategic analytical assessments of the donor mapping database, identifying gaps and overlaps in issue-based donor activities, and preparing regular strategic and innovative reports on donor activity. As part of this engagement, ACE Partners has delivered a comprehensive report on [Blended Finance for the Energy Transition in Indonesia, the Philippines, and Vietnam](#). This report sheds light on how blended finance can play a role in stimulating and accelerating clean energy investment in the region, and the challenges that need to be overcome. The report provides detailed recommendations for different stakeholders—namely DFIs, project developers, philanthropic organizations, local financial institutions, and local governments and regulators. The report also includes several global case studies of institutions and programs that provide blended finance.
- Financial Institution Workshop Series in Southeast Asia (July - December 2022): Organized Financial Institution Workshops on Energy Efficiency Development in Indonesia and the Philippines. The workshops served as a platform to discuss key policy, regulatory and economic challenges and opportunities, and pathways to unlock key impediments for under-investment of energy efficiency development.
- Design of Grid Diagnostic in the Philippines (December 2021 – July 2022): Assisted ETP in designing a technical assistance project to provide regulatory support for smart grid development and energy storage systems in Luzon, Visayas, and Mindanao, the Philippines. ACE Partners designed a Concept Note

considering the existing programs funded by ETP among other funders, and the future plans for energy transitioning funding. The objective of the Concept Note is to secure funding approval from the ETP Steering Committee.

- Design of Innovation Window: Early-stage Grant Funding for Innovative Energy-Efficiency Technologies (April – May 2021): Assisted ETP in designing an Innovation Window to provide a simplified, systematic funding window through with ETP can provide early-stage grant financing for innovative “demand side” technologies and business model that improve energy efficiency, enable demand response, and utilize smart-meter of IoT-related approached to achieve energy and cost savings. ACE Partners designed a Concept Note for review, approval, and funding by the ETP Steering Committee.

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Project title: **GCPF Green lending support Cambodia**
Dates: October 2022 – October 2023
Clients/Partners: Global Climate Partnership Fund (GCPF)
Countries: Cambodia
Project description:

This assignment aimed to conduct an in-depth market assessment to scope out the highest potential for energy efficiency and renewable energy in the agriculture and SME sectors and to identify relevant technology providers/ distributors that show an interest in partnering with the financial institution to establish a lean data sharing process to enable joint promotion and tracking of equipment.

Asia Clean Energy Partners’ (ACE Partners) role was to support the financial institution in Cambodia in defining a clear action plan to guide them in tapping this market potential and to support the bank in implementing this action plan, which included support on product development and testing, staff capacity building while operationalizing working relationships with vendors and provide promotional support.

Deliverables under this activity will include:

- Market potential assessment and ecosystem mapping and evaluation, which included a list of potentially eligible energy efficiency and renewable energy technologies of interest to the target clients, current technology providers, financing schemes available in the market for farmers and SMEs, as well as the organization of a workshop that presented findings to the GCPF, investment manager, and financial institution management.
- Product development and roll-out support, which included product support documentation, a product pilot report, training materials, and progress reports, including a final report and supporting materials used in the final workshop session.

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Project title: **Asia Clean Energy Forum (ACEF)**
Dates: October 2018 – September 2024
Clients/Partners: Asian Development Bank
Countries: Sub-regional/multi-country
Project description:

The Asia Clean Energy Forum (ACEF), one of Asia’s leading clean energy events, is held each June at ADB Headquarters in Manila, the Philippines. ACEF connects diverse stakeholders from across Asia and the globe, facilitates knowledge sharing, and highlights ADB’s ground-breaking work to scale up clean energy investment in the region.

ACE Partners’ Co-CEO Peter du Pont has supported ADB in the design and the conduct of ACEF since its inception in 2007, and ACE Partners has provided a support team for ACEF since 2008. During the COVID-19 pandemic years (2020, 2021, 2022), ACE Partners successfully transformed ACEF into a virtual format, delivering the same level of quality and value that ACEF is known for, while ensuring the safety and health of participants, reducing costs, eliminating the greenhouse gas emissions associated with a physical event, and improving convenience and accessibility. ACE Partners continues to support ADB in hosting the event in person in 2024 at ADB headquarters in Manila.

ACE Partners’ services include:

- Support to ADB teams in developing the overall content and agenda for the event.
- Communications outreach for the event, including newsletters and social media.
- Development and maintenance of event website.
- Recruitment and coordination of event content partners for Deep Dive Workshops and Side Events.
- Curation of content through a Call for Abstracts process, coordination with ADB staff on abstract selection, and finalization of detailed agenda for sessions.
- Operation of the virtual event through coordination between the Track Chairs, Session Chairs, and Speakers and performing as the Virtual Platform Operator.

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Project title: **Private Financing Advisory Network (PFAN)**
Dates: October 2018 – February 2024
Clients/Partners: United Nations Industrial Development Organization
Countries: 12 countries in South and Southeast Asia
Project description:

The Private Financing Advisory Network (PFAN), hosted jointly by the United Nations Industrial Development Organization (UNIDO) and the Renewable Energy and Energy Efficiency Partnership (REEEP), is a global network of clean energy financing experts that provide free mentoring to project developers and link them to investors. Since its inception in 2006, PFAN has helped raise \$3 billion for clean energy and climate change projects globally.

ACE Partners serves as the Southeast Asia Regional Coordinator overseeing work in eight countries—Cambodia, Indonesia, Malaysia, Laos, Myanmar, Philippines, Thailand, and Vietnam, and provides support for the overall Asia implementation team, which includes four countries in South Asia—namely Bangladesh, India, Nepal, and Sri Lanka. ACE Partners’ services for PFAN include:

- **Project origination and project coaching:** ACE Partners helps build a strong pipeline through extensive outreach across Asia and engagements with key stakeholders including national and state government agencies, energy and business associations, project developers, and others. As of May 2024, PFAN Asia has a pipeline of 167 projects, with 104 of those currently being coached.

- **Investment facilitation and deal closure:** ACE Partners helps lead PFAN’s efforts to reach out to investors, banks, and financial institutions across the Asia region, to understand investor appetite and investment requirements, then match PFAN projects to suitable investors. Between 2016 and 2023, PFAN Asia helped 26 projects in Southeast Asia raise a total investment of \$280 million and 46 projects in South Asia raise \$1.4 billion.
- **Capacity building of project developers:** While project developers are passionate about technology, they often lack skills in packaging and presenting their case to investors. ACE Partners leads the network of PFAN Advisors that provide mentoring and business coaching to selected PFAN projects. These Advisors assist in building the capacity of project developers and help them make their projects more attractive to investors.

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Project title: **Good Practices for LGU Energy Efficiency and Small Renewables in the Philippines**
Dates: August 2022 – December 2023
Clients/Partners: Asian Development Bank (ADB)
Countries: Philippines
Project description:

This assignment aimed to develop a compendium of good practices and practical guidance that local government units (LGUs) in the Philippines can use to implement energy efficiency (EE) and small renewable energy (RE) initiatives effectively. The reference book will focus on small renewable energy to power LGU's energy consumption and energy efficiency on LGU's owned infrastructure. The development of the reference book shall be in coordination with the DOE EUMB (Energy Utilization Management Bureau) and REMB (Renewable Energy Management Bureau).

The Asian Development Bank (ADB) has engaged ACE Partners- together with the Danish Management Group to lead the development of the reference book. ACE Partners’ contributions:

- Identified key priorities, barriers, and overall goals of LGUs.
- Determined and mapped the spheres of the LGU's influence on EE/RE opportunities.
- Reviewed RE and EE technologies and applications
- Prepared case studies and provided recommendations on financing options, good practices, and practical guidance for LGUs to implement EE and small RE initiatives.

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Project title: **Private Sector Assessments**
Dates: April 2020 – July 2023
Clients/Partners: Asian Development Bank (ADB)
Country: Thailand, Lao PDR, Cambodia, Philippines
Project description:

The Asian Development Bank (ADB) has engaged ACE Partners to conduct the private sector assessment in Thailand (April 2020 – September 2021), Lao PDR (November 2022 – January 2023), and Cambodia (February – July 2023), and the Philippines (November 2023 – February 2024). The assignment is part of ADB’s mission to develop the Country Partnership Strategy (CPS) in these countries, leverage ADB sovereign lending (projects and programs) as well as non-lending assistance (knowledge and capacity building and policy dialogue) to overcome development obstacles and encourage private sector investment to address the national development challenges. The findings are essential for formulating the CPS, highlighting challenges and solutions to be summarized in the Inclusive and Sustainable Growth Assessment (ISGA), and updating the Development Coordination Matrix (DCM).

ACE Partners was responsible for analyzing the state of private sector development in Cambodia, Lao PDR, Thailand and the Philippines, identifying regulatory and other constraints and barriers to private sector

participation in core sectors such as infrastructure, financial services, agriculture (including climate adaptation and agribusiness), health, and education, mapping key players in these sectors, and identifying those that are a strong fit for ADB. ACE Partners also assessed the potential for further development of public-private partnerships (PPP), identified promising sectors and projects for PPP, identified strategic initiatives for ADB assistance, and prepared a policy and action matrix outlining key constraints, necessary reforms, and high-value business opportunities.

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Project title: **Leveraging Financial Markets and Instruments for Meeting the Sustainable Development Goals - Climate Risk Finance Specialist**

Dates: August 2022 – June 2023

Clients/Partners: Asian Development Bank

Countries: Fiji, Samoa, Vanuatu

Project description:

The Asian Development Bank (ADB) has explored the interest of finance sector supervisory authorities in its Pacific developing member countries to integrate climate and environmental risks in their policies and operations. Challenges in the Pacific’s finance sector include capacity constraints that affect central banks and supervisory authorities’ response to the need for sustainable finance. Given its vulnerability to climate change, the Pacific needs to take necessary steps to develop a financial services sector that is responsive to climate-related risks.

Asia Clean Energy Partners’ (ACE Partners) role was to lead a rapid assessment of the financial services sector across the ADB’s selected Pacific developing member countries by building on the initial feedback and consult interested stakeholders to assess the progress made, to identify gaps where technical support will be required, and to propose a way forward to support supervisor’s effort to integrate climate and environmental risks in their policies and operations.

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Project title: **Green and Innovative Finance Initiative for Scaling Up Southeast Asian Infrastructure**

Dates: April 2021 – April 2023

Clients/Partners: Asian Development Bank

Country: Philippines

Project description:

The Mindanao Agro-Enterprise Development Project is a \$100 million loan designed to enhance the diversification and value addition of agro-based products increased in Mindanao. The project will facilitate access to finance for micro, small, and medium-sized enterprises (MSMEs) in the agricultural and food industry, enhance agri-logistics and networks, and provide technical assistance for the MSMEs in product development, branding, and marketing.

As the Green Financing Specialist (Energy Efficiency and Renewable Energy), ACE Partners provided inputs to the ADB loan design team with the following:

- Conducted a comprehensive landscape and key stakeholder to determine technical and financial gaps for green financing in the agribusiness sector, focusing on support already provided by PFIs (e.g., DBP, Landbank), and wider SME financing in the agribusiness sector
- In close collaboration with TRTA consulting firm agricultural value chain consultants, supported the rapid assessment of the post-harvest and logistic facility needs, energy supply, and efficiency needs of agricultural SMEs and cooperatives, including supporting sample energy audits, energy consumption profiles, etc.

- Based on the need assessment, as well as a market assessment, compiled a list of technologies/activities / sub-project types that could classify under a green finance framework, and that is available / could be made available in the Philippines
- Compiled data on average payback periods for various technologies/project types to be supported by green financing mechanism
- Building on international best practices (e.g., Climate Bonds Initiative, EU Sustainable Finance Taxonomy), a framework / simple list of criteria were developed to screen/validate green financing
- Designed financing mechanism(s) in coordination with SME financing specialist and Agribusiness financing specialist and in close consultation with potential PFIs based on the preliminary financial and economic projection of using energy-efficient processing equipment and power generation and developed a set of criteria for lending and guidelines for the operation of the lending
- Assessed capacity gaps in target PFIs as well as potential SMEs and designed a capacity building program for PFIs and potential borrowers to promote green financing, working closely with the SME financing specialist and Agribusiness financing specialist.

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Project title: **ESCO Market Assessment and EBSEA Comms**
Dates: October 2022 – July 2023
Clients/Partners: EP Group Limited
Countries: Philippines
Project description:

EP Group Limited has engaged ACE Partners to conduct market research on the ESCO (Energy Service Company) market and services in the Philippines. Additionally, ACE Partners will assist EP Group in the development of a marketing and communication plan for the ESCO-in-a-Box project which is set to be implemented in the Philippines.

ACE Partners undertook the following tasks:

- Determined the size of the addressable markets for Partner ESCOS in the Philippines, including a potential market size figure, in USD, including a breakdown of key industries and their energy intensity, investigations into energy price savings and the SME sector composition, to inform the strategy for the Super-ESCO.
- Identified and prioritized 2-5 market segments with the greatest potential for an EIAB based proposition in the Philippines, considering national policies, legislation, energy prices, the existing client bases of prospective Partner ESCOs, and the technology and finance solutions that will best serve each segment.
- Developed a communication plan for the ESCO-in-a-Box project.

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Project title: **Cambodia Energy Forum and ASEAN Energy Transition Dialogue**
Dates: April 2022
Clients/Partners: Asian Development Bank (ADB)
Country: Cambodia
Project description:

The Asian Development Bank (ADB) engaged ACE Partners to support the Royal Government of Cambodia and ADB in organizing the Cambodia Energy Forum on April 5, 2022, and ASEAN Energy Transition Dialogue on April 6, 2022.

The Cambodia Energy Forum included a presentation on Cambodia’s Power Development Plan (2021-2040), followed by a consultation on the plan in the context of global and regional trends in the power sector. The forum served as a convening platform for Cambodian public and private sector leaders, selected international experts, and donor and development agencies to discuss the PDP and related policy measures and financial mechanisms that can accelerate Cambodia’s transition to an affordable, smart, resilient, and low-carbon power system.

The ASEAN Energy Transition Dialogue was a regional discussion on the ASEAN's energy transition, which focused on renewable energy, energy efficiency, and the discontinuation of coal-fired generation facilities. The forum highlighted the potential of competitive auctions to expand renewable energy usage and discussed how these auctions could entice private sector involvement in the sector. A total of 493 individuals attended the event, with 82 participating in person and 411 attending remotely via video conference.

ACE Partners provided a range of services for the events, including:

- Identifying and proposing international speakers for the forum sessions, developing knowledge and communication materials, and disseminating them through various channels.
- Supporting ADB in various event management requirements, including before, during, and after the forum.

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Project title: **Preparing the Mongolia Agriculture and Rural Development Project - Phase 2**
Dates: January 2022 – October 2022
Clients/Partners: Asian Development Bank
Country: Mongolia
Project description:

The project supported the enhancement of technology adoption by agro-enterprises to increase agro-processing capacity and boost agricultural production in Mongolia, thereby increasing the added value of agricultural resources. The increased capacity will lead to employment generation and indirectly benefit herders, farmers, and primary processors through the PPEs' increased demand for raw materials.

As the Green Financing Specialist (Energy Efficiency and Renewable Energy), ACE Partners:

- Conducted a comprehensive assessment of the landscape and key stakeholders to determine technical and financial gaps for green financing in the agribusiness sector, focusing on support already provided by project financial intermediaries;
- Supported the rapid assessment of the post-harvest and logistic facility needs, energy supply, and efficiency needs of agricultural SMEs and cooperatives, including supporting sample energy audits, and energy consumption profiles,
- Based on a needs and market assessment, compiled a list of technologies and activities that could classify under a green finance framework, and that are available, or could be made available, in Mongolia;
- Compiled data on average payback periods for various technologies and project types to be supported by green financing mechanisms;
- Built on international best practices (e.g., Climate Bonds Initiative, EU Sustainable Finance Taxonomy), developed a framework and simple list of criteria that could be applied to screen and validate green financing;
- Designed financing mechanism(s) in coordination with the SME Financing Specialist and Agribusiness Financing Specialist and close consultation with potential Private Finance Institutes (PFIs) based on the preliminary financial and economic projection of using energy-efficient processing equipment and power generation and develop a set of criteria for lending, and guidelines for the operation of the lending; and
- Assessed capacity gaps in target PFIs as well as potential SMEs and design a capacity building program for PFIs and potential borrowers to promote green financing, working closely with the SME financing specialist and Agribusiness financing specialist.

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Project title: Thailand Energy Transition Playbook
Dates: April 2022 – June 2022
Clients/Partners: Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH
Countries: Thailand
Project description:

The Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH proposed a concept for the German government (BMUV) on Thai-German Cooperation on Energy, Mobility and Climate (TGC-EMC). This proposed program aims to accelerate Thailand’s energy transition toward a sustainable model by focusing on the two largest and interlinked economic sectors—power and transport.

GIZ plans to create a roadmap or checklist for Thailand to prioritize and design a series of activities and key topics that will inform the development of an "Energy Transition Archetype" for the country. This roadmap, also known as the Energy Transition Playbook or "The Playbook," aims to provide valuable input to the TGC-EMC design team by identifying standard energy transition milestones and activities, as well as sector-coupling challenges and topics that should be considered during the design process. The main objective of The Playbook is to help the design team make informed decisions and develop a comprehensive plan for the energy transition in Thailand.

ACE Partners performed the following activities:

- Compiled a list of Energy Transition Trends in Thailand and prioritized the key trends among them. Further analyzed and delved into these trends.
- Conducted research on international case studies relevant to energy transitions and compared them with a Thai perspective.

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Project title: Network Coordination for Energy Evaluation Asia-Pacific (EEAP)
Dates: December 2021– November 2022
Clients/Partners: Energy Evaluation Asia-Pacific
Countries: Regional
Project description:

Energy Evaluation Asia-Pacific (EEAP) is a community that supports the evaluation of energy policy and programs in the Asia-Pacific region. The community is open to policymakers, evaluators, academics, and energy professionals to participate in a dialogue about the best practices for conducting evaluations that lead to good decision-making and wise investment of resources. EEAP aims to help countries in the region meet their sustainable development goals and reduce greenhouse gas emissions while providing affordable energy for all, energy security, and reducing pollution. The community also plays a leadership role in developing resources and professional expertise to answer complex questions related to energy policy and program implementation. EEAP brings together people involved in energy evaluation through online resources, webinars, and conferences held every two years in Asia.

ACE Partners served as Network Coordinator for EEAP, performing the following tasks:

- Assisted with the day-to-day functioning and administration of EEAP;
- Provided marketing and communications support to maintain and develop EEAP’s online presence;
- Supported delivery of EEAP webinars; contributing to strategy and fundraising approaches that will underpin resources and future developments for EEAP.

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| Project title: | Green Finance and ESG Solutions Assessment for the Manufacturing Sector in Cambodia, Thailand, and Vietnam |
| Dates: | November 2021 – February 2022 |
| Clients/Partners: | Institute for Sustainable Communities (ISC) |
| Country: | Cambodia, Thailand, and Viet Nam |
| Project description: | |

The Institute for Sustainable Communities (ISC) has been awarded a new 3-year USAID-funded alliance, the Mekong Sustainability Manufacturing Alliance (MSMA), which aims to enhance the lower Mekong region as a sustainable manufacturing hub. The program targeted factories in the food processing, electronics, and textiles sectors in Cambodia, Thailand, and Vietnam, with country-specific and region-wide activities. The MSMA emphasized the business advantages of implementing sustainable manufacturing practices. ISC contracted ACE Partners to conduct a landscape assessment in Thailand, Vietnam, and Cambodia of the financing opportunities available for the manufacturing sector to advance environmental, social and governance (ESG) performance. This included a parallel assessment of locally appropriate solutions to improve factory ESG performance. This allowed ISC and MSMA stakeholders to understand the ESG context, priorities, and financing needs of manufacturers in each of the target countries, potential solutions for improving ESG performance, and the barriers that factory owners face to further action.

ACE Partners performed the following tasks for each country:

- Examined the manufacturing sector's status in relation to ESG benchmarks to identify issues for the MSMA program to address
- Analyzed financing needs for ESG initiatives and identified barriers to securing finance
- Documented existing green finance initiatives to identify partnership opportunities and expand financing for ESG best practices in the manufacturing sector
- Created a materiality assessment for each industry to understand potential solutions' impact on ESG improvement
- Identified potential ESG solutions and their benefits, including business value, brand value, and ESG effectiveness
- Documented the existing solution landscape, technical and government partners, and rollout considerations
- Created an overall solution feasibility assessment that linked the financial landscape with the solution landscape to determine the suitability of the solutions for MSMA participants and to provide a pathway to finance the recommended solutions.

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| Project title: | Enabling Access to Off-grid Renewable Energy in Magway, Myanmar |
| Dates: | October 2021 – December 2022 |
| Clients/Partners: | United Nations Development Programme (UNDP) |
| Countries: | Myanmar |
| Project description: | |

The United Nations Development Programme (UNDP) initiated a Technical Assistance (TA) on Energy under the Environmental Goods and Services (EGS) component of the Governance for Resilience and Sustainability Project (GRSP)—a UNDP initiative to develop the private sector by addressing the market-creating challenges of EGS and green business, as well as the emerging and compounding risks associated with the military take-over of the civilian government and the COVID 19 pandemic. The TA on Energy aimed to improve access to clean and affordable energy to selected villages in Magway Region, Myanmar. The TA's main output aimed to provide clean electricity to 200–300 households.

ACE Partners—together with its partner, Myanmar Eco Solutions—designed and implemented the following activities:

- Identification, assessment, and validation of four pilot villages and up to eight beneficiary groups
- Reviewed and fine-tuned the Impact/Business model

- Development of a procurement plan for the purchase of technology solutions (a combined quantity of 500 RE/EE technology solutions. It is expected that ~60%-70% of the solutions (300-350 pieces) will be solar home systems (SHS) and ~30%-40% of the solutions (150-200 pieces) will be improved cookstoves (ICS).
- Designed and structured a series of adaptive capacity development training sessions (bilingual) and tailored coaching sessions, including topics on enterprise skills development and financial literacy.
- Phased-roll out of technology solutions, adaptive mentoring, and enterprise skills coaching

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Project title: Finance Mapping Southeast Asia (for the Clean Affordable Secure Energy for Southeast Asia (CASE) Programme)

Dates: November 2021– February 2022

Clients/Partners: Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

Countries: Indonesia, Philippines, Thailand, Vietnam

Project description:

The objective of the assignment was to support the CASE regional team to systematically map and capture key data and information on the finance and investment environment related to the energy transition in the four CASE countries—Indonesia, Philippines, Thailand, and Vietnam. This included data and information on current and past investment flows, sources of finance, costs of different technologies, and other relevant aspects comprising both domestic as well as international financial activities and flows.

ACE Partners supported the CASE regional team on the following tasks:

- Creating a framework to scope, map, and gather relevant data and information regarding the finance and investment landscape in the energy sector.
- Collecting data and information from the four partner countries, which are Indonesia, Philippines, Thailand, and Vietnam.
- Synthesizing the collected data and information into a format that is easily accessible and can be updated as needed.

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Project title: Policy Advice for COVID-19 Economic Recovery in Southeast Asia

Dates: August 2021 – November 2021

Clients/Partners: Asian Development Bank

Country: Thailand

Project description:

The Asian Development Bank (ADB) and Thailand’s Ministry of Energy (MOEN) co-organized a workshop on opportunities for cooperation on Energy, Environment, and Natural Resources Management. The workshop was organized online in two half-days in October 2021 with the aim of identifying opportunities where ADB could support Thailand (e.g., through technical assistance, transaction advisory support, or strategic investments) in the development of a green recovery program. The following themes had been agreed upon with MOEN for discussion as part of the workshop:

- New and Emerging Clean Energy Technologies and Opportunities for Enhancing Regional Power Trade Through Renewables;
- Opportunities for Green and ESG Financing;
- Climate Change Support and Net Zero Emissions Planning;
- Fostering a Green, Blue and Circular Economy;
- Natural Resources Management, and Opportunities for enhancing Bio-sequestration and Carbon Offsets, including under Article 6 of the Paris Agreement.

ACE Partners role:

- Supported the ADB Staff on all operational and logistics aspects of the workshop, including the choice of platform for virtually hosting the event, preparation of meeting invitations, and other arrangements, as necessary (e.g., ensuring presentation materials are prepared on time);
- Supported the ADB team in the preparation of the workshop agenda and its various updates, as required, including coordinating the participation of Thai government officials;
- Advised ADB team on specific topics to be discussed in each session of the workshop, including materials to be developed (i.e., PowerPoint presentations);
- Supported the ADB team on all organizational and substance-related matters (e.g., preparation of summary points from the thematic sessions to support closing remarks by ADB representative at the end of each day).

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Project title: Development of a “Primer on Zero Carbon Buildings”
Dates: June 2021 – December 2021
Clients/Partners: World Bank Energy Sector Management Assistance Program (ESMAP)
Country: Global
Project description:

The objective of the assignment was to produce a primer on Zero Carbon Buildings (ZCBs) that provided the World Bank Group (WBG), its clients (low- and middle-income countries), and other stakeholders with insights and recommendations on how to shift towards ZCBs in WBG and client government projects and programs. The assignment also included a presentation of the insights and recommendations to the WBG and client audiences.

ACE Partners collaborated with DEM (Danish Energy Management) and WRI (World Resources Institute) experts to complete the following tasks:

- Conducted a comprehensive desk review of literature, policies, regulations, and strategies related to zero-carbon buildings in various countries, including ZCB design elements, certification schemes, and relevant initiatives.
- Summarized the key barriers to ZCB implementation and developed policy recommendations to overcome them for both new construction and retrofitting of existing buildings.
- Developed technical assistance and investment program recommendations for ZCB implementation, covering policy and regulation, capacity building, awareness-raising, and procurement approaches.
- Conducted a cost-benefit analysis of ZCBs, including passive and active design elements, renewable energy, and carbon offset measures for different building types.
- Compiled five case studies on single-family, multifamily, office, school, and hospital buildings, detailing energy efficiency levels, renewable energy generation, investment costs, energy costs, payback periods for retrofitting, and lessons learned.

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Project title: **The Clean Power Hub**
Dates: October 2021 – September 2022
Clients/Partners: Propel Clean Energy Partners
Country: Indonesia, the Philippines, and Viet Nam
Project description:

The Clean Power Hub is an online platform that provides various resources and tools for individuals and organizations involved in renewable energy development. The website offers a range of services, including a project development framework, an online knowledge library, a job board, and a community forum. Clean Power Hub aims to accelerate the deployment of renewable energy projects worldwide by facilitating knowledge-sharing, collaboration, and access to resources. Propel is the developer of Clean Power Hub, which is financially supported by the Children’s Investment Fund Foundation, with additional assistance from the ClimateWorks Foundation, the National Renewable Energy Laboratory, and the Grantham Institute – Climate Change and the Environment.

ACE Partner assisted Propel in designing marketing strategies to launch the Hub in Southeast Asia and to build its network of partners and end-users.

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Project title: **Assistance on Design and Roll-out of Southeast Asia Energy Transition Partnership (ETP) and the Tara Initiative**
Dates: February 2018 – March 2022
Client: European Climate Foundation
Countries: ☒ Southeast Asian countries
Project description:

The Energy Transition Partnership (ETP) is a multi-stakeholder platform that strives to deliver joint action, improved dialogue, and coordination among donors with the aim to accelerate the energy transition by addressing policy, financial, and knowledge barriers to renewable energy, energy efficiency, and sustainable infrastructures in the region. ETP was guided by funders through an Interim Steering Committee and an Interim Secretariat hosted by the European Climate Foundation. The Tara Initiative is a separate program administered by the Foundation, which aims to engage clean energy actors across the region towards aligned goals and more enabling policy environments.

ACE Partners played a pivotal role in facilitating effective communication and outreach efforts for both the Tara and ETP initiatives. Our support encompassed various aspects, including stakeholder engagement, website design, data analysis, market assessment research, and the development of well-designed interventions. To accomplish this, ACE Partners specifically performed the following:

- Created a website and initial pre-launch outreach materials for ETP
- Built data collection models and databases of clean energy activity and initiatives in the region for use by Tara, the client
- Led the design of a series of webinars for technical assistance agencies and Tara grantees in Indonesia and Vietnam
- Conducted market assessment studies for Tara clean energy initiative design in the Philippines, Indonesia, Vietnam, Thailand, and Malaysia

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Project title: **Green and Innovative Finance Initiative for Scaling Up Southeast Asian Infrastructure**

Dates: March – November 2021

Clients/Partners: Asian Development Bank

Country: Thailand

Project description:

This project aimed to help the National Housing Authority (NHA) of Thailand develop and issue Green Bonds to help finance the future development of its housing. NHA is a state-owned enterprise with a mandate to develop affordable housing for low-income households in the country. In recent years, NHA has been focused on integrating sustainable urban housing concepts and approaches into their assets including energy efficiency measures, eco-housing concepts, and aligning themselves with national energy efficiency labels such as EGAT's Label No. 5 efficient housing.

ACE Partners led an ADB Consulting Team to help review NHA's existing asset base to determine eligibility as green assets. Based on a review of NHA's expansion plans, and construction design, the ADB Consulting Team identified measures that NHA may incorporate in their near-to-medium term expansion plans to construct additional green assets, financed through issuances of Green Bonds. To accomplish this, ACE Partners performed the following:

- Carried out an assessment of regulatory issues as it pertains to energy efficiency measures in residential buildings in Thailand
- Reviewed green buildings eligibility criteria as stipulated by ASEAN green bond standard, ICMA green bonds standard, and the Climate Bonds Initiative
- Integrated the inputs of the senior energy efficiency in buildings expert (technical)
- Presented the findings to relevant counterparts in dissemination workshops
- Developed a knowledge product on thematic bonds for sustainable housing in Thailand

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Project title: **Market Research on Climate Change Adaptation and Mitigation**

Dates: February 2021 – August 2021

Clients/Partners: Social Solutions

Country: USA

Project description:

Social Solutions intended to establish a "practice area" that focuses on Climate Change Mitigation and Adaptation, Reducing Pollution, Improving Environmental Health, and Green Growth. To accomplish this, ACE Partners performed the following:

- Conducted comprehensive market research to gain insights and provide strategic recommendations on how Social Solutions can effectively position themselves in this sector.
- Provided specific inputs on potential new opportunities, including capture research, strategic partnering, and proposal development.

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Project title: **Coordination of the UN's Cool Coalition**
Dates: September – November 2020
Clients/Partners: UN Environment Programme (UNEP)
Country: Subregional/ Multi-country
Project description:

The Cool Coalition is a flagship collaboration between UNEP and the Kigali Cooling Efficiency Program and is a global multi-stakeholder network and platform that connects a wide range of key actors from government, cities, international organizations, businesses, finance, academia, and civil society groups to facilitate knowledge exchange, advocacy, and joint action towards a rapid global transition to efficient and climate-friendly cooling. Cool Coalition members collaborated on science, policy, finance, and technology to meet growing demands for cooling in a comprehensive manner, all aimed at raising climate ambition in the context of the Sustainable Development Goals while complementing the goals of the Kigali Amendment to the Montreal Protocol and the Paris Climate Agreement.

ACE Partners assisted with the coordination of different Cool Coalition workstreams and the development of governance arrangements and overall funding mechanisms and strategies for the platform.

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Project title: **Energy Efficiency Research in Bangladesh, Indonesia, and Viet Nam**
Dates: June 2020 – June 2021
Clients/Partners: Institute for Sustainable Communities (ISC)
Country: Bangladesh, Indonesia, and Viet Nam
Project description:

The Institute for Sustainable Communities (ISC) engaged ACE Partners to conduct an energy efficiency landscape assessment. The study aims to identify opportunities for industrial energy efficiency and evaluate the feasibility of replicating the Energy Efficiency Alliance model in Bangladesh, Indonesia, and Vietnam. The research also aims to deepen understanding of the current state of industrial energy efficiency in the countries and the region, including policy and regulation, energy-intensive industrial sectors, potential technologies for energy efficiency interventions, challenges to scaling up such interventions, and potential solutions and pathways moving forward.

ACE Partners led a team of three experts to conduct the following assignments:

- Assessed the industrial energy efficiency landscape in three countries
- Identified local stakeholders with whom the program can collaborate in the future
- Supported the webinars in Bangladesh and Indonesia to share research findings.

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Project title: **Analysis and Assessment of the Existing Landscape and Opportunities for Building Energy Efficiency in Selected Countries in Asia**

Dates: September – November 2020

Clients/Partners: Lawrence Berkeley National Laboratory

Country: 10 ASEAN Countries

Project description:

The research aims to assess opportunities for establishing cooperation between the US and ASEAN countries, in the area of building energy efficiency research and implementation. The final report described key trends and growth patterns for the building and construction sector in ASEAN; mapped ongoing programs funded by donors and/or the private sector; described key stakeholders and organizations involved in the sector; and described opportunities for engagement by US Government agencies and US private sector technology and service providers with partners in ASEAN, with a view to the potential formation of a US-ASEAN Clean Energy Research Centre on Building Energy Efficiency (CERC-BEE).

ACE Partners led a team of 4 national experts in a study to understand key trends and growth patterns for the building and construction sector in the 10 ASEAN member countries in Southeast Asia. Deliverables under this assignment were:

- An overview of the building energy sector in each country, covering building electricity usage as a share of overall electricity demand, energy tariffs, energy and climate policy imperatives, and current energy system limitations and issues for which building EE would provide a useful solution.
- A review of existing national policies and strategies for building EE with further coverage of building EE institutions in the country, key existing activities, and mechanisms to accelerate investment in resource-efficient buildings and principal support activities provided by international agencies

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Project title: **Webinar: Driving Sustainability through the Capital Markets**

Dates: December 2020

Clients/Partners: Asian Development Bank (ADB)

Country: Regional

Project description:

On December 2, 2020, the ASEAN Capital Markets Forum Secretariat, and the Asian Development Bank (ADB) jointly organized a webinar titled “Driving Sustainability through the Capital Market.” A total of 193 finance professionals attended the webinar. The webinar had two main objectives:

- To increase awareness about the sustainable finance initiatives undertaken by the ASEAN Capital Markets Forum Secretariat and the ADB, and how they are progressing in this area.
- To emphasize the importance of consolidating sustainable finance efforts in the region and establishing stronger links between sustainability efforts in the real economy and sustainable finance.

ADB engaged ACE Partners to provide the following services:

- Assisted with setting the event agenda and session branding
- Advised on best delivery of presentations and variety of presenting formats
- Managed the registration process and assisting in communicating to speakers and content providers on collating all presentations, videos, and other digital materials for both smooth event execution and follow-up provision to participants
- Provided real-time support prior and during the event

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Project title: **Renewable Energy Knowledge Products**

Dates: October – November 2019

Clients/Partners: Asian Development Bank (ADB)

Country: Cambodia

Project description:

The Asian Development Bank (ADB) engaged ACE Partners in designing a series of knowledge materials aimed at disseminating information about ADB’s work in the renewable energy space among ADB’s member countries, donors as well as the general public. The knowledge products focus on the successful public-private partnership model applied in Cambodia, which could be replicated in other ADB member countries, as well as on upcoming ADB clean energy initiatives.

ACE Partners performed the following tasks:

- Drafted a case study on the Cambodia National Solar Park Project, describing ADB’s role, financing structure of the transaction, stakeholders involved, implementation arrangements, and next phase of ADB’s involvement.
- Produced a PowerPoint presentation on the Cambodia National Solar Park Project, presenting the key components of the project.
- Reviewed and formatted a brochure on ADB’s new initiative and efforts to scale up renewables in Southeast Asia.

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Project title: **Energy System Analysis, Technology Road Maps and Feasibility Studies for Pilot Testing**

Dates: February 2020 – March 2021

Clients/Partners: Asian Development Bank (ADB)

Country: Uzbekistan

Project description:

This assignment is part of the ADB’s technical assistance to the Uzbekistan Government in its effort to establish Special Economic Zones as a strategic initiative to promote industrialization for high-value-added products and job creation in Uzbekistan.

ACE Partners led a team of three specialists to conduct a market survey to identify potential international investors and assess the readiness of the basic infrastructure for the deployment of solar PV, waste-to-energy as part of decentralized and smart energy systems in the Eco-Industrial Parks. The final report prepared by ACE Partners includes recommendations on the following:

- (i) suitable industries (manufacturing, energy) to be located in the Eco-Industrial Parks
- (ii) needed infrastructure (energy, road, water) and cost estimates
- (iii) social-environmental impact safeguards measures
- (iv) institutional arrangements for the management of Eco-Industrial Parks
- (v) Terms of Reference for a more comprehensive Feasibility Study on selected sites

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Project title: **Improving Institutional Capacity on Preparing Energy Efficiency Investments: Energy Efficiency Opportunities in South Asia to 2025**

Dates: July 2019 – November 2019

Clients/Partners: Asian Development Bank

Country: Bangladesh, Bhutan, Nepal, Sri Lanka, the Maldives

Project description:

This Regional TA ran from 2016-19 and aimed to realize the objectives for high energy security and more efficient energy production and consumption for the five DMCs under study. The TA conducted training programs and dialogue workshops on energy efficiency technologies, policies and regulations, and fiscal and financial instruments. Key activities were:

- detailed energy audits of at least five buildings in total from five countries, one per country; and at least five industrial facilities in total from five countries, one per country.
- a pipeline of energy efficiency projects developed which were identified from the detailed energy audits.
- Capacity building activities and policy dialogues conducted for the five DMCs, and over 100 government officers trained.
- The TA contributed to strengthening the capacity of the five DMCs to develop energy efficiency projects, with analytical evidence gathered during the energy audits and discussions with stakeholders.

Energy Efficiency Technical Analysis: ACE Partners led the development of a publication to summarize the lessons of the TA in the above countries, including synthesis of energy efficiency market assessments completed in the target countries, results of audits, and analysis of available energy efficiency opportunities, across all sectors including buildings public lighting, industry, appliances, and electric vehicles.

Design of Financial Mechanisms: Alongside the market review and identification of the most viable energy efficiency opportunities, the assignment presented a consideration and recommendation of possible financing mechanisms for funders to take further in accelerating energy efficiency investments in each country.

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Project title: **Evaluation of ADB Support for GMS (Greater Mekong Subregion) Regional Power Trade and Cooperation**

Dates: March 2019 - October 2019

Clients/Partners: Asian Development Bank (ADB)

Countries: China, Cambodia, Laos, Vietnam, Thailand

Project description:

The ADB's TA 9003-REG aimed to enhance the capacity of Greater Mekong Subregion (GMS) countries in implementing Integrated Resource Planning (IRP) with Strategic Environmental Assessment (SEA) in their Power Development Programmes (PDPs). This effort had three main objectives:

- To improve regulations, policies, programs, and/or targets for renewable energy (RE) and energy efficiency (EE), as necessary and as validated through the IRP.
- To support cross-border interconnections, as necessary and as validated through the IRP (Integrated Resource Plans).
- To enhance the GMS countries' capacity to apply IRP with SEA in their PDPs.

To evaluate the relevance of ADB support for GMS Regional Power Trade and Cooperation, ACE Partners conducted a review and provided recommendations for future programs supported by ADB's technical assistance and other donor support.

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Project title: **First Asia-Pacific Renewables Status Report for REN 21**
Dates: February 2019 – October 2019
Clients/Partners: REN21 Secretariat/ UN Environment
Country: China, Japan, Mongolia, the Republic of Korea, Georgia, Kazakhstan, Uzbekistan, Bangladesh, India, Pakistan, Sri Lanka, Indonesia, Myanmar, the Philippines, Thailand, Viet Nam, Fiji, Tonga

Project description:

The report, which was produced in cooperation with the Asian Development Bank (ADB) and the United Nations Economic and Social Commission for Asia-Pacific (UNESCAP), provides a comprehensive overview of renewable energy trends and developments in selected 18 countries across five sub-regions of Asia and the Pacific. The 18 countries covered in the report are fundamental to the clean energy transition. They account for 52% of the world’s population, represent 88% of the people living in the Asia Pacific region and account for 39% of the global primary energy supply. The report exams the policy landscape, investment flows and how renewables are increasing energy access. It builds on the success and lessons learned in producing the Renewables Global Status Report and other REN21 to inform on the current status of renewable energy in the region. The report serves as a valuable reference for researchers, policy makers, and the private sector and offers comprehensive discussions on the renewable energy industry and market, distributed renewables for energy access, policies, regulations, investment, and financing.

ACE Partners supervised the overall project coordination and management of data collection in the 18 countries covered by the report, as well as the production of the final report.

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Project title: **Thailand Energy 4.0 Conference: Designing the Future of Thailand’s Power System**
Dates: December 2018 – February 2019
Clients/Partners: Asian Development Bank (ADB)
Country: Thailand
Project description:

This two-day international conference, jointly organized by the Asian Development Bank (ADB) and Thailand's Ministry of Energy, deliberated on the future of Thailand's power sector. The conference discussions focused on the emerging themes related to energy and the future of the electric utility: transport and mobility, scaling up renewable energy, energy efficiency, and digitalization; and covered best practices and experiences from Thailand and internationally to consider how Thailand's power sector can evolve to adopt, adapt, and grow with these changes. More than 60 speakers and 300 participants from 20 countries attended the conference.

ACE Partners’ Co-CEO Peter du Pont served as a member of the 4.0 Steering Committee and was involved in every aspect of the planning, designing, and organization of the 4.0 conference.

ACE Partners performed the following tasks:

- **Conference vision and structure:** ACE Partners collaborated closely with ADB and Thailand’s Ministry of Energy to develop the overall conference program and structure. The focus was on identifying best practices and experiences both from Thailand and internationally to consider how Thailand’s power sector must evolve to adopt, adapt, and grow with technical innovations and market changes.
- **Track Chairs, panelists, speakers, and rapporteurs:** ACE Partners tapped into its deep networks across Asia, and globally to identify track chairs, panelists, and speakers who were experts in their respective fields and could provide value to the 4.0 conference. We developed speaker packages (bios, guidelines, etc.) and had multiple discussions with the track chairs and panelists to ensure effective messaging and outcomes for each track. ACE Partners also identified rapporteurs for each track who were tasked to collate information on key discussions, which was later used to develop an event summary report.

- **Communication and Outreach Collaterals:** ACE Partners assisted ADB in developing the conference booklet that provided an overview of the conference, speaker bios, pictures, and detailed agenda of each track. We coordinated with ADB Thailand Communication’s team to promote the 4.0 posts on social media and developed a crisp, visually appealing event summary report.

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Project title: **Copenhagen Centre on Energy Efficiency Rollout**
Dates: May 2018 – April 2019
Clients/Partners: UNEP Copenhagen Climate Centre (previously UNEP-DTU Partnership)
Country: Sub-regional/multi-country
Project description:

The Copenhagen Centre on Energy Efficiency (Copenhagen Centre) is dedicated to accelerating the uptake of energy efficiency policies and programs on a global scale. In the context of the United Nations Secretary General’s Sustainable Energy for All (SEforALL) initiative, the Copenhagen Centre is the thematic hub for energy efficiency with the prime responsibility to support action towards the SEforALL energy efficiency target of doubling the global rate of improvement in energy efficiency by 2030. The Copenhagen Centre is institutionally part of the UNEP Copenhagen Climate Centre.

UNEP Copenhagen Climate Centre (UNEP CCC) engaged ACE Partners to provide technical support and act as Asian representative for activities, policy, and strategy development. ACE Partners’ services for UNEP CCC:

- Led the engagement with the Ministry of Energy in Kenya for the development of the national energy efficiency strategy
- Built external networks and communities of practice with key stakeholders and fostering UNEP CCC engagements with governments and stakeholders in Asia
- Coordinated the internal processes for pursuing funding opportunities and assisting with UNEP CCC management and facilitation efforts,
- Developed the guidance documents for cities interested in energy efficiency implementation, contributing to communications materials, and representing the Copenhagen Centre at conferences and events.

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Project title: **The Role of States and Regions in Myanmar Energy Sector**
Dates: May 2018 – April 2019
Clients/Partners: The Asia Foundation
Country: Myanmar
Project description:

The report on Role of State and Region Governments in Myanmar’s Energy Sector explores the role of Myanmar’s state and region governments in the development of the country’s energy sector, and how they can increase their agency in shaping their own and the nation’s energy future.

ACE Partners led the research for this report, which describes how Myanmar’s state and regional governments are discharging their energy sector responsibilities and what adjustments may be needed to attract increased private sector investment in decentralized energy solutions and infrastructure. The report addressed the constitutional, legal, and institutional framework of state/region energy authority, analyzed the potential for greater decentralization of the energy sector, and described the challenges, opportunities, and strategies for improving subnational energy policy, management, and decision-making.

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Project title: Made in Vietnam Energy Plan 2.0

Dates: October 2018 – November 2019

Clients/Partners: The Asia Foundation – Vietnam

Country: Vietnam

Project description:

The “Made in Vietnam Energy Plan (MVEP)” is an authoritative report commissioned by the Vietnam Business Forum (VBF), a not-for-profit platform for the business community in Vietnam. Developed in 2016, the MVEP provides an overview of the Government’s Energy Plan VII and includes the approach to use indigenous resources to deliver a sustainable energy future to 2030. However, rapid transition in global and local energy markets and technological innovations warranted an update to MVEP. The updated MVEP presents a business case for using Vietnam’s domestic energy resources to stimulate investment in energy generation, ensure energy security, and get the energy to people at the lowest overall cost. It provides recommendations and a framework for choosing a more sustainable, lower-carbon energy pathway.


VBF commissioned ACE Partners to update the existing MVEP and develop MVEP 2.0. ACE Partners performed the following tasks:

- **Review, Research, and Analysis:** ACE Partners reviewed the 2016 MVEP report and had several discussions with key stakeholders to understand the on-the-ground issues. We also conducted desk research on international best practices that could be adopted in Vietnam to spur the clean energy transition.
- **Report Production and Recommendations:** ACE Partners provided key recommendations to accelerate Vietnam’s transition to a low-carbon economy. This includes a more even distribution of power-generating assets across renewables, gas, and coal. We also suggested policies and incentives to maximize energy efficiency programs and identified key challenges and potential solutions.

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