



#7
Affordable and
clean energy



#9
Industry, innovation
and infrastructure

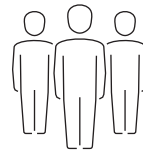
#11
Sustainable cities
and communities

#12
Responsible
consumption
and production

#13
Climate
action

Your Global
Partner in
Sustainable
Energy Solutions

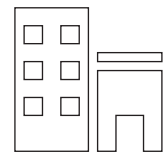
NIRAS quick facts



2,400
employees



7,000
projects



51 offices in
31 countries

Building sustainable societies around the globe

Owned by a foundation and a percentage of its employees, NIRAS is an international multi-disciplinary consultancy firm with Nordic roots and values creating sustainable development solutions for a better, more equal, and stable world. We work across a broad spectrum of areas including construction, energy, water, climate change resilience, and infrastructure to rural development, the process industry, economic development, geodata, as well as urban planning.

Our mission is to deliver tailored, innovative, value-creating, and results-driven solutions to enable our clients and partners achieve their goals. We achieve this by providing transformative support for positive change, addressing root causes, and magnifying impact through flexibility in implementation, capturing SDG-linked results, and celebrating successes.

In NIRAS International Consulting, we collaborate with development organisations, donors, governments, institutional investors, and the private sector to design, manage, and evaluate projects and services

Since the signing of our first development cooperation contract around 50 years ago, NIRAS has stayed true to its core vision of being the most inspiring company contributing to a better, more equal, and stable world in line with the Sustainable Development Goals (SDGs).

that create opportunities for people to improve their lives and live in safe, equal, well-governed, and climate-resilient societies. We do this in partnership with our country offices and our extensive network of experts to ensure a comprehensive, results-driven approach that is both contextually sensitive and produces innovative outcomes for maximum value. NIRAS applies the highest ethical standards wherever we operate, be it in fragile, post-conflict, least developed, emerging, or middle-income economies.

Our values

CLIENTS

- We engage in networks and brand our people, projects and expertise
- We build partnerships with our clients beyond their projects
- We apply a careful bid-no-bid process and secure profitability
- We organize a tender process enabling high quality
- We celebrate wins and seek learning from all tenders

PROJECTS

- We understand our client and the complexity and life-cycle of projects
- We provide fit-for-purpose project management and teams
- We fulfil expectations in a time and cost-effective process
- We raise concerns instantly and act to resolve problems
- We seek feedback in order to learn and improve

PEOPLE

- We help and support our colleagues across the organisation
- We work proactively with feedback to learn and flourish
- We provide career opportunities and nourish innovation
- We facilitate job rotation to build networks and culture
- We secure a pipeline of talents from universities and our network

EXPERTISE

- We aspire for excellence across all our areas of expertise
- We develop expertise and access knowledge through partnerships
- We eagerly share our knowledge and insights
- We orchestrate networks of specialists
- We facilitate smart access to CVs, references and knowledge

Fuelling human development in a smart and green way

Delivering sustainable energy solutions around the globe

The presence of energy in its various forms, particularly since industrialisation, has been a key driver of change in modern society. Continuous advancements in this sector enable nations to progress from developing to developed status. However this growth and advancement has come at a significant cost to our natural resources, and immediate and urgent corrective action needs to occur to ensure we stop depleting these precious resources while supporting the vision of prosperity for all.

NIRAS has been playing an increasingly important role in this transition story. With our roots as Nordic engineering company, we have been providing advisory services for sustainable energy solutions since the 1980s. Our capacity-building expertise enhances the ability of local government institutions to keep up with new actors and developments in the energy sector while ensuring good governance. Governments in more than 20 countries have turned to NIRAS International Consulting for support in their pursuit of a cleaner, more efficient, and informed energy sector management.

Working Groups

Technically we complement each other in the various locations while certain specialised capabilities are concentrated in specific offices:

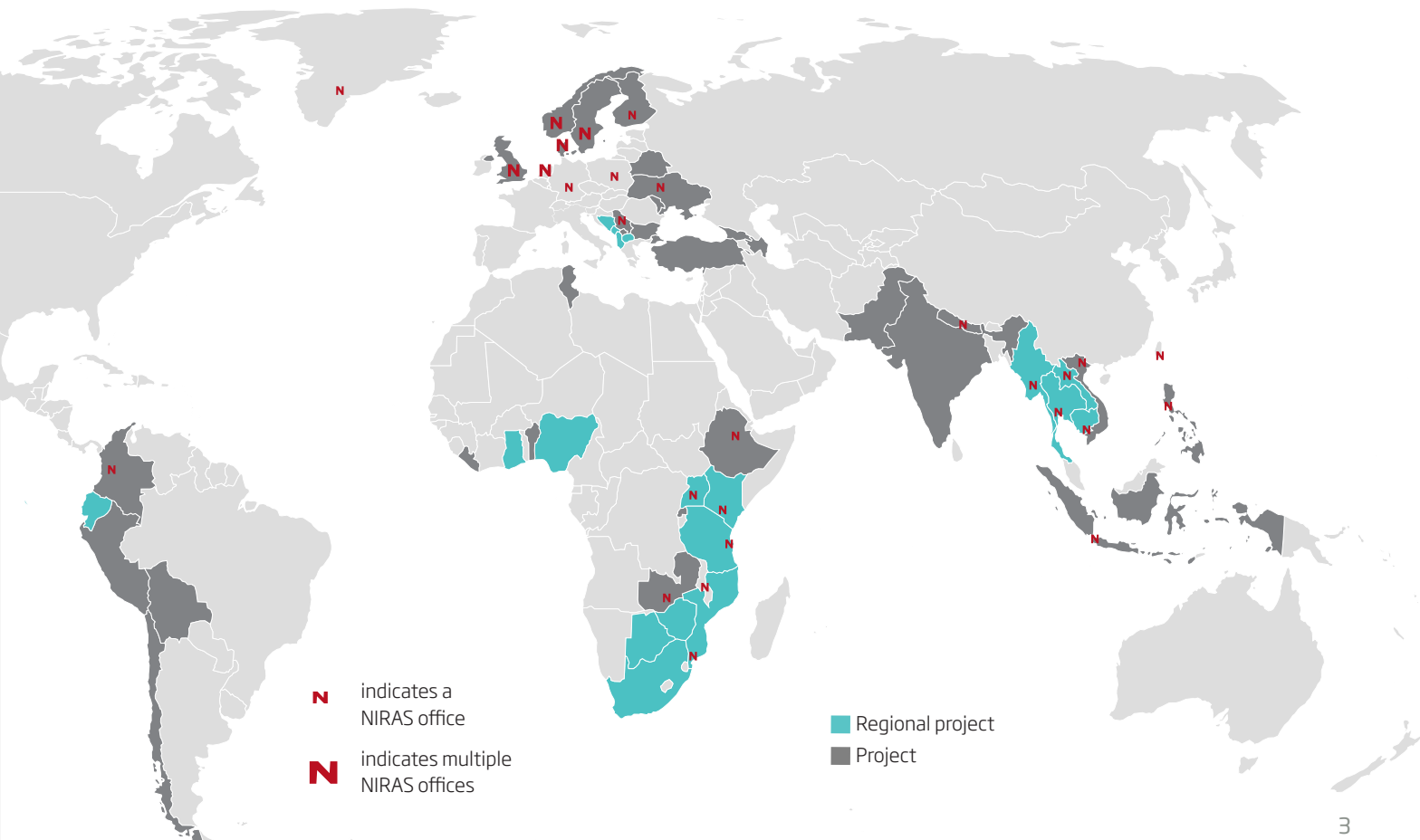
- NIRAS Denmark: Renewable Energy & Climate Action, Infrastructure
- NIRAS Norway: Energy Efficiency in Buildings
- NIRAS-RCEE (Vietnam): Energy Efficiency & Renewable Energy
- NIRAS UK: Wind Energy (esp. Off-Shore), M&E of Energy Projects
- NIRAS Taiwan: Wind Energy (esp. Off-Shore)
- NIRAS International Consulting – Infrastructure Sector Group (cross-office)
- NIRAS International Consulting – Fund Management Sector Group (cross-office)

In total there are **more than 400 NIRAS staff** with an energy and environment background working across the entire group.

Our energy portfolio

Around 30 ongoing energy-related projects for 15 clients in more than 20 countries

In the past five years, NIRAS International Consulting has successfully implemented more than 38 energy projects for 15 clients in over 22 countries














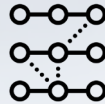






Today, we offer energy-related advice in the areas of policy, finance, regulation, institutional development and fund management. NIRAS-managed energy funds multiply finance from public sources through private investors and ensure long-term goals are attained.

The growing demand for energy intensifies the climate change challenges many countries are facing. At the same time, however, the cost of renewable energy (RE) has decreased dramatically while innovations in smart grids and storage technologies have eased the shift towards green energy sources. Mindful of global best practice and local conditions, NIRAS assesses and further develops countries' RE support schemes. We evaluate whether regulatory frameworks are conducive to RE and identify low-cost, high-impact solutions to facilitate further investment.

We also offer a broad portfolio of energy efficiency (EE) services, including energy audit programmes and energy management systems, strengthening the policy and regulatory framework (setting of standards, labelling, certification) as well as the financial engineering of EE projects.

Today, one billion people still live without electricity while about three billion rely on traditional, polluting fuels to cook or heat their homes. To reach those without access to modern energy, we concentrate on market-based approaches and support the creation of self-sustaining local markets for long-lasting impacts in rural electrification.

Our strengths: what NIRAS can offer

 <p>Renewable Energy (RE)</p>	 <p>Energy Efficiency (EE)</p>	 <p>Energy Access</p>
 <p>RE Technologies</p>	 <p>EE in Buildings</p>	 <p>Rural Electrification & Development</p>
 <p>Energy Planning</p>	 <p>EE in Industries</p>	 <p>Disadvantaged Groups</p>
 <p>Energy Finance</p>	 <p>Research & MEL in Energy</p>	 <p>Cross-cutting</p>
 <p>Financial Mechanisms & Market Development</p>	 <p>Monitoring, Evaluation & Learning (MEL)</p>	 <p>Capacity Building & Institutional Strengthening</p>
 <p>Fund Management</p>	 <p>Research & Studies</p>	 <p>Policy & Regulatory Framework Development</p>



Our cross-cutting competencies

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Affordable and clean energy

#5

Gender equality

ENERGY AND GENDER

NIRAS has a strong reputation in the space of gender equality and gender-based policy development. We aim to mainstream this perspective in all our assignments and consider it especially important in the context of the worldwide rollout of sustainable energy solutions. Be it in the form of trainings that we deliver in energy efficiency (e.g., for GIZ in Bolivia), the design of our funding mechanisms for energy, or the productive use of energy in decentralised areas, gender equality is always considered. Internally, NIRAS runs a Gender Helpdesk - identifying gender mainstreaming concepts that can be incorporated into assignments based on the policies of donors, the country context and the subject of the project.

As recognised by the SDGs, building sustainable future societies requires integrated holistic solutions and cross-sector collaborative approaches.

#7

Affordable and clean energy

#11

Sustainable cities and communities

ENERGY, URBAN DEVELOPMENT AND TRANSPORT

Living on an interconnected globe with technological progress rapidly increasing, infrastructure and energy needs are reaching demanding new heights. This is mostly due to never-before-seen resource demands predominantly in the urban environment. As the Next Generation Consultancy, NIRAS wants to participate in the development of smart cities. We thus embrace the complex nature of the urban fabric and combine knowledge in a variety of disciplines to answer needs for energy use and energy efficiency in buildings, industry and transport. Together with our clients, we strive for more modern mobility solutions to eventually contribute to global climate goals.

#7

Affordable and clean energy

#2

Zero hunger

ENERGY AND AGRICULTURE

NIRAS has been working in the field of agriculture development for almost 50 years and applies innovative solutions globally. The nexus of agriculture and energy has evolved at the same time as the technological possibilities offered through renewable energy and production techniques in the value chain. NIRAS offers effective solutions in different geographic settings and on different levels - such as supporting smallholder farmers in the use of solar irrigation or making large scale industrial facility processes more energy efficient.

NIRAS in-house technical capabilities and services

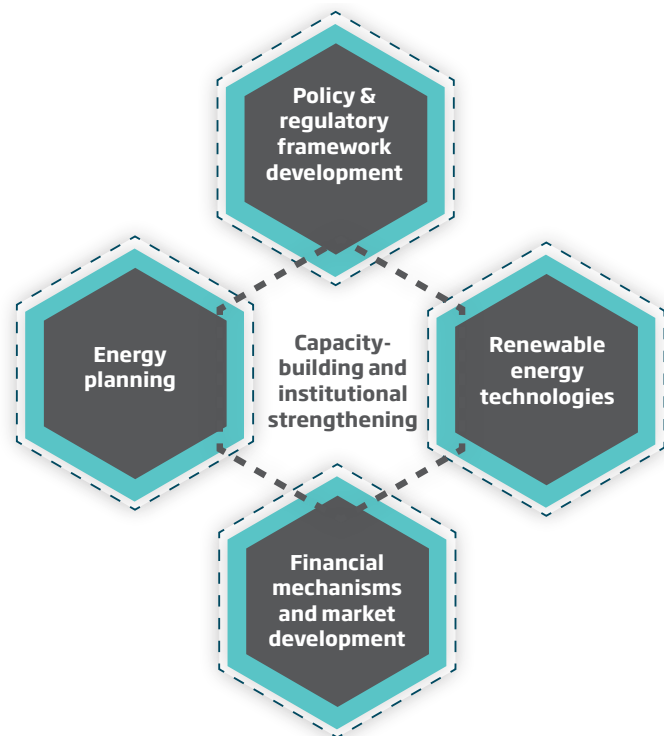


RENEWABLE ENERGY

Overview

The growing demand for energy intensifies the challenges such as international commitments to lower GHG emissions, set national renewable energy (RE) targets and ensuring stability of grids. At the same time, the cost of RE technologies has decreased while innovations in smart grids and energy storage technologies have eased the shift towards renewable energy sources (RES).

NIRAS is a recognised international company with vast experience in renewable energy technologies such as solar PV and solar thermal, wind energy, co-generation based on waste, biomass or biogas, waste to energy, thermal energy storage thus contributing to the increase of the RE share in the global energy mix. Facing the various challenges that the RE sector deals with nowadays, NIRAS through its engineering and development consulting offers compelling solutions. Our expert teams have developed an extensive track record in the RE sector ranging from design, engineering, project management to policy and regulatory framework development, as well as financial mechanisms and market development, capacity building, and institutional strengthening to highlight a few. NIRAS supports RE sector developers, financial investors, industry associations, private and public utilities as well as state institutions that influence the growth of the RE sector worldwide.



Our practice areas in the RE sector

The successful development of the RE sector requires a range of skills, knowledge and experience. NIRAS meets these requirements and ensures appropriate staff are involved while working on a large variety of projects in the various sub-sectors.

NIRAS services can be broken down to four major areas, as shown in figure 1.



Renewable energy technologies

NIRAS' services within the field of RE technologies offer assistance throughout the project development phase including pre-feasibility studies, feasibility studies, environmental impact assessments and strategic environmental assessments, technical design, project management, procurement and supervision of construction sites. NIRAS' experience covers RE technologies such as large solar PV, solar thermal energy, wind on and off-shore, biomass cogeneration, biogas, small hydropower plants and heat pump systems. In particular we have supported numerous developing countries by producing feasibility studies such as in the small hydropower sector, bridging the gap on rural electrification rates with solar PV mini-grid assessments and assisting rural communities in reaching the ultimate sustainable deployment.



Policy and regulatory framework development

NIRAS has gained a profound understanding of the best energy practices that can influence energy reforms at different levels: national, regional and local. Building on this understanding, we have been successful in developing tailor-made innovative solutions for RE reform, covering regulatory and policy framework. NIRAS has a long experience in developing consulting working on:

- RE policy and strategy formulation, including advisory services to policy makers and development of strategies for policy implementation, RE action plans etc.;
- RE legal and regulatory framework assessment and enforcement mechanisms.



Energy planning

NIRAS has gained strong experience in RE planning and the adoption of sustainable RE solutions through the preparation of short, medium and long-term RE development plans at the local, regional and national level. We have also developed plans for RE grid integration, smart grids, microgrids and distributed generation.

Figure 1. Our RE services



Sinoe Rapids, Liberia, near the proposed site of the hydropower installation.



Financial mechanisms and market development

NIRAS services relate to financial aspects and market development in the various sectors including RE and are based on a solid foundation of methodology involving close collaboration between financial and technical experts covering:

- Development of financial incentives to support the RE development (pricing, feed-in tariffs, net-metering, auctions, subsidy reforms) and attract private investments;
- Power purchase agreement (PPA) structuring based on renewable energy integration best practices;
- Analyses of markets and identification of shortcomings and opportunities to leverage private investments.

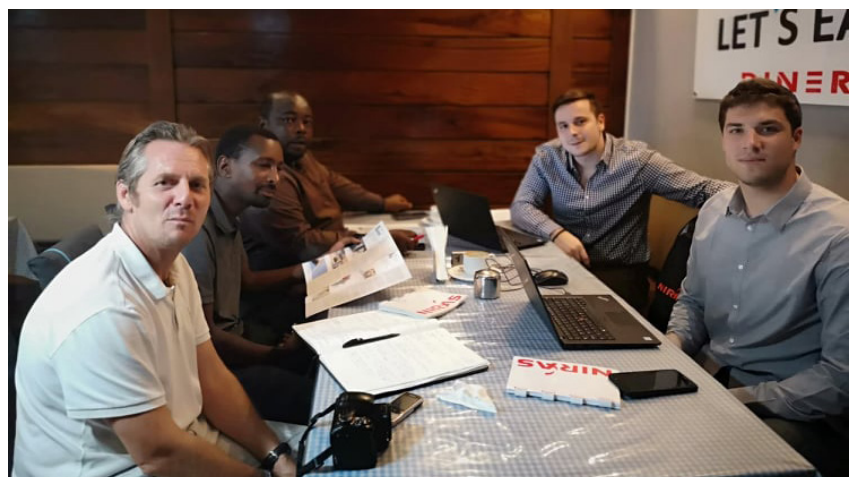


Capacity building and institutional strengthening

At the core of our business capacity building and institutional strengthening is a vast area of intervention that draws on a broad range of skills and specialist expertise such as institutional and organisational development, human resource development, legislation and policy enforcement. NIRAS services in this area are provided at all stages of the project cycle and directed towards:

- Strengthening of institutions and organisations with a view to improving management, efficiency and transparency;
- Improving technical skills in organisations in the field of RE, including formal and on-the-job training, development of manuals and guidelines, etc.

Our hugely talented international team helped deliver this really exciting small-hydro feasibility study in a remote and challenging location in southeast Liberia. Once developed, the 2 MW project will benefit more than 10,000 people in Sinoe County with sustainable and low carbon electricity and will spark local development and entrepreneurship. With the professional and focussed NIRAS team, the assignment fulfilled the required outcomes for the Liberian Government who are in the process of taking the project forward.”



Simon Taylor, Team Leader on Feasibility Study for Sinoe Rapids Small Hydropower Plant, Liberia



RENEWABLE ENERGY: A SELECTION OF PROJECTS



Support to Modernisation of the Energy Sector in the Republic of Moldova

Moldova

European Commission

€2 060 800

2017-2021

The overall objective of the project is to support Moldova in the reform of its energy sector with a view to ensuring higher efficiency and energy security in five components:

1. Comprehensive and sustainable energy policy is in place in the country;
2. The commitments of the Republic of Moldova under the Energy Community Treaty (EnCT) are fulfilled;
3. The Energy Efficiency Fund (EEF) is functioning along best international standards;
4. The framework for energy efficiency (EE) and development of renewable energy sources (RES) is fully in place;
5. The energy planning capacities of the Republic of Moldova are fully in place and functional.

Support Engagement in Energy Efficiency and Sustainable Energy in Georgia

Georgia

DANIDA

€3 532 185

2017-2023

The four major intervention areas concern the 1) Formulation of New National Energy Efficiency Building Code, 2) Legislation on Labelling of energy-related products and its delegated acts, 3) Methodology for monitoring and reporting, which is compliant with national and EU standards, and a 4) National grid code regulation and standards that enable electricity from RE sources (particularly wind energy) to feed into the national power grid.

Changfang and Xidao Offshore Windfarms

Taiwan

CI Wind Power Development Taiwan (CIP)

Not available

2017 - ongoing

The Changfang and Xidao Offshore Windfarms (589 MW) are located off the coast of Changhua County, Taiwan. The projects have reached financial close and target to start offshore construction in 2021. NIRAS is providing support through the project development phase to project execution. The works include support in obtaining local permits and consents, technical environmental advisory and assessments for topics like ornithology, marine mammals, underwater noise and fisheries, as well as a series of assessments to close the gaps between local EIA and international ESIA. NIRAS is providing technical and management support for example for the substation and foundation design packages and during the fabrication process.

Support to the Climate Change Commission Phase II (SupportCCC II) - Component 4: Renewable Energy Development and Energy Planning

Philippines

GIZ

€529 960

2016-2018

NIRAS provided technical advice to the National Department of Energy through workshops, training sessions, studies etc. in the following areas: integrated energy planning, RE policy, support schemes, energy market design, and RE grid integration and management.

Feasibility Study for Sinoe Rapids Small Hydropower Plant

Liberia

EC

€422 356

2018-2019

Preparation of a Feasibility Study, Detailed Design and Tender Documents for a small hydropower project (2 MW) to provide captive supply of electricity to Greenville, a town of about 17 000 residents in Sinoe County, Southeast Liberia. The project was studied on pre-feasibility level in early 2018. The indicative design stipulates the implementation of a low-head (5.5 m) run-of-river type hydropower plant. Required works included further site investigations, e.g. topography, geological and GIS mapping, hydrological studies, optimization of layout and design and FS-level environmental and social impact assessment.



ENERGY EFFICIENCY

Overview

The energy efficiency (EE) sector has a big potential in climate change mitigation and thus has become a key driver for sustainable development in many countries worldwide. Not only are industrialised and highly developed countries nowadays ready to invest in advanced equipment to reduce the consumption of energy on various fronts, transition countries have joined the train to reverse the trend of increasing heating or electricity bills. Shorter payback periods combined with ever advancing technology are making it possible to offer effective tools and mechanisms to achieve a win-win situation between supplier and consumer. The construction and industrial sectors are booming due to new solutions that enable savings making a real difference. In this context, NIRAS comes offers expertise providing studies, consultancy services, capacity building and management in those processes, which contribute to improvement of EE in a variety of sectors.

Our practice areas in the EE sector

We have experience in supporting energy planning on national, regional and local scale as well as giving advice on energy efficient supply of modern energy services in order to increase energy savings for buildings and industries. NIRAS services are broken down to four major areas outlined in figure 2.

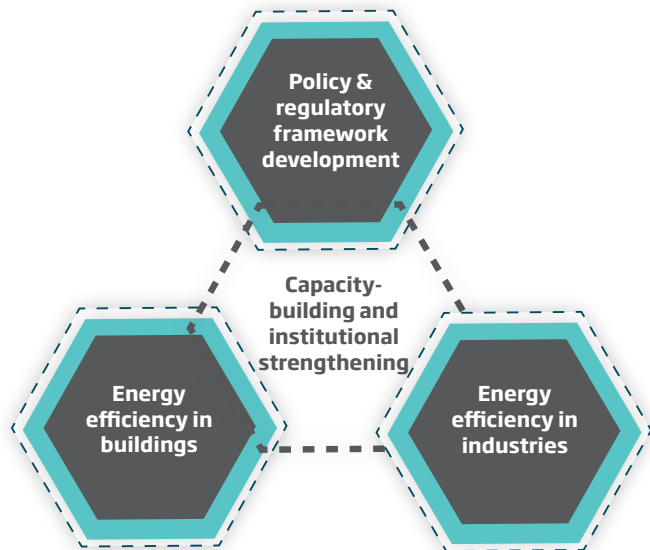


Figure 2. Our EE services



Energy efficiency in buildings

Energy demand from buildings continues to grow. This is driven by better access to energy in developing countries, improved indoor conditions and increasing expectations about the level of comfort in buildings, as well as rising consumption and use of electrical devices leading to a fast evolution in global constructions' floor area. Buildings and building construction represent nearly 40% of total direct and indirect CO₂ emissions and ranks third in global final energy consumption (Tracking Buildings 2020, IEA 2020). Therefore this sector is an enormous source of untapped EE potential.



NIRAS has been a central part of the Renewable Energies Programme (PEERR) project in Bolivia supporting the Ministry of Energy in increasing energy efficiency and fostering initiatives and educational measures in the field. We devised a concept for an Energy Efficiency Agency and developed energy efficiency guides for a nationwide implementation of cost-efficient energy efficiency measures. Since 2017, we have been providing organisational consultancy to the Bolivian Vice Ministry of Electricity and Alternative Energies (VMEEA). We have also advised on the design and implementation of the National Energy Efficiency Strategy as well as an energy audit programme in public buildings.

Pictured here: Taking measurements of the main electric board at Hospital Arcoiris. Photo courtesy of GIZ

NIRAS offers broad experience in the development and implementation of international EE projects, technical assistance programmes with focus on institutional capacity building, development of legal and regulatory frameworks for EE and supporting implementation of credit lines of financial institutions aimed at improving EE in buildings and the municipal infrastructure sector.

Our services

- Training programmes on energy auditing and evaluation of energy performance of buildings, energy certification;
- Capacity building on energy monitoring and energy management in the building sector;
- Project management, development and coordination of EE and retrofitting projects for residential and public buildings;
- Assessment and development of an institutional and legal framework for improving EE and energy certification in the building sector, including laws, regulations, standards and guidelines in line with EU Directives and regulations, EN/ISO standards and best practices;
- Feasibility studies and implementation of EE projects including technical, economic, financial and environmental evaluations;
- Implementation support to investment projects funded by international financial corporations and donors, starting from preparation and conducting procurement process, contracting, reviewing design documentation, implementation supervision, and ending with commissioning and results monitoring and verification.



ENERGY EFFICIENCY: A SELECTION OF PROJECTS



Technical Assistance for Enhancement of Institutional Capacity in Energy Efficiency

Turkey

European Commission

€3 470 000

2019-2021

In terms of energy efficiency, Turkey's legislative framework is partially aligned with the EU acquis. However, the implementation of the provisions laid down in the Directive 2012/27/EU and relevant secondary legislation requires an increased institutional capacity. Therefore, NIRAS is providing capacity building services to the Ministry of Energy and Natural Resources of Turkey to implement EE policy and to coordinate the EE measures throughout the country. In this regard the project focuses on three results:

1. Enhancement of the capacity of the Department of Energy Efficiency and Environment in terms of EE strategies in line with the Directive;
2. Development of a methodology for calculating energy saving potentials and a model for EE projections;
3. Improvement of the EE Portal (ENVER).

Renewable Energy Programme (PEERR)

Bolivia

GIZ

€1 211 662

2017-2022

Via PEERR for GIZ in Bolivia, NIRAS supports the design and set-up of the national EE strategy, including the structuring of an EE Unit at the Ministry of Energy, as well as personnel development, operational planning, processes & workflows. Moreover, we advise the Bolivian Government on the implementation of the EE programme in public buildings, comprising quality assurance of energy audits, training energy auditors, introducing an M&E system as well as the analysis of financing possibilities for the establishment of this program. NIRAS advises the Bolivian State Agency for Social Housing on the development of building standards in social housing for different climates and provides trainings on architectural EE-design strategies. We advise the GIZ Gender-Energy Community (GENRE GIZ) in Bolivia on the implementation of training courses and workshops, debating different topics on the energy & gender sphere and creating knowledge for the benefit of the women in the community.

Specialised Project Implementation Support to the Municipal Development Fund of Georgia

Georgia

NEFCO

€402 675

2018-2021

The Municipal Development Fund of Georgia (MDF) was appointed as Project Implementation Unit (PIU) for implementation of Priority Investment Programme in public buildings (26 buildings covering more than 70,000 m² of building area including schools and kindergartens) of Georgia with total investment costs of €4.7M. This assignment is to consult and assist the MDF-PIU in implementing energy savings and EE measures and to introduce renewables and alternative sources of energy supply in several public buildings in Georgia. The purpose of the project is to decrease and decarbonise energy consumption (7 659 MWh energy savings annually) in the project buildings and thereby, to reduce CO₂ emissions (1 120 tonnes CO₂ emission reduction annually) and the costs for operation and maintenance of those project buildings.

|| This project (Energy Efficiency Measures in Kyiv Public Buildings, Ukraine) has exceeded all expectations and - at the same time - came in on budget. The CO₂ emissions have decreased by 17,000 tonnes annually, over 10,000 tonnes more than estimated, and the heat usage has decreased by 40,000 gigacalories, 10,000 gigacalories more than estimated."

Ulf Boj , Senior Investment Manager at NEFCO



EIB Ukraine Higher Education Project	Ukraine	EIB	€2 868 750 (NIRAS 45% -€1 136 543)	2019-2021
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The project aims at developing, procuring and implementing different sets of EE measures in selected universities located all around Ukraine. The project is divided in two phases:

1. Implementation of EE sub-projects (147 buildings with a total floor area of 820,000 m²) in six universities of Ukraine;
2. Investments of approximately €79M in additional universities (approx. 120 buildings).

The task is to provide efficient and effective support in the management, monitoring and reporting on project implementation to ensure that the overall progress and results meet stated goals in a timely manner; capacity building enabling the beneficiaries to efficiently perform their respective tasks related to the preparation, implementation and monitoring of sub-projects; and independent verification that the renovation of sub-projects is meeting the planned energy savings.

Energy Efficiency Measures in Kyiv Public Buildings - Consultancy support to the PIU	Ukraine	NEFCO	€343 748	2014-2018
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NEFCO provided a €5M loan and was the lead financier for an EE project in the City of Kyiv, including three priority investment components in municipal buildings (schools and kindergartens):

1. Installation and modernization of about 300 individual heating substations;
2. Modernization and upgrade of lighting systems in 33 buildings;
3. Thermal renovation and upgrade of HVAC systems in 17 buildings.

The assignment was to provide support to the Project Implementation Unit, established at Communal Enterprise KP GVP, in all aspects of implementation of the programme, starting from the procurement process and ending with reporting on the completion of the project implementation. Achievements were much higher than expected, with considerable reductions in CO₂ emissions and heat usage.

Pilot Activity on Promotion of Incentives for Energy Saving and Management (such as ESCO Project, subsidy, etc.) in the Project for Green Growth Promotion in Ha Long Bay Area, Quang Ninh Province	Vietnam	JICA	€30 000	2017-2019
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The consultant team provided various technical assistance to the local authority to promote EE activities in Quang Ninh Province, conducted surveys for assessment of EE potentials in selected industries (cement, ceramics, seafood processing), and identified suitable EE measures for further analysis. A proposal for an EE investment pipeline for different financial schemes was developed: grant, energy service company (ESCO) and soft loan. RCEE-NIRAS identified potential ESCO projects and facilitated companies to further develop ESCO model pilot projects. The project supported the local Department of Industry and Trade to develop annual EE work plans to promote EE activities in the province.

Food Processing Industry - Strategic Sector Study and Subproject Pipeline Development for Improving EE with Integrated Ozone and Climate Benefits	Vietnam	World Bank	€340 000	2015-2016
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NIRAS performed the assessment of the energy saving potential and establishment of EE benchmarking for the food processing industry in Vietnam. This assessment would, in turn, be used to build the pipeline of food processing industry subprojects for downstream financing through lending by the PFIs as part of the Vietnam Energy Efficiency for Industrial Enterprises (VEEIE) project.



Energy efficiency in industries

According to the International Energy Agency and the Intergovernmental Panel for Climate Change, just five of the most intensive industrial sectors can achieve up to 40% of the energy savings comparing to current energy use. The significant energy gains in the short and medium term in the industrial sector could be achieved through strategic energy management planning and wider implementation of best available technologies.

NIRAS is a professional independent advisor when it comes to investments, project execution and optimisation of industrial production facilities. NIRAS experts' deep knowledge of industrial products and processes transforms facility visions and challenges into sustainable solutions. By applying EE in the industrial sector, a multitude of positive side effects are reached on both a social and environmental scale.



Our services

- Energy audits;
- Analysis of the current energy performance;
- Analysis of the EE measures: the power supply system, process control and technology improvement, produc-

tion optimisation, waste heat recovery, energy efficient lighting, pumps, boiler systems, electrical motors and much more;

- Energy and cost saving assessment;
- Energy management systems setting & implementation;
- Carbon footprint assessment.



Renewables and alternative sources of energy supply will be introduced in +70,000 m² of public building areas in Georgia.



In the "Specialized Project Implementation Support to the Municipal Development Fund of Georgia", EE renovation will be implemented in 26 public buildings. The Investment Project aims to achieve 7 659 MWh of energy savings annually, resulting in 1 120 tonnes CO₂ emissions reduction annually.



ENERGY ACCESS

Overview

Since the introduction of the historic Paris Agreement in 2015, the international community has been coming together to take concerted and more urgent action towards addressing climate change and supporting sustainable development. This commitment can be seen in public and private sector efforts to reduce emissions and mitigate the negative environmental and socioeconomic effects of human activity. The complex structure of the present global interlinkages and interdependencies amongst nations poses both a challenge and an opportunity to find unifying solutions to some of the world's most pressing problems.

When the United Nations' General Assembly defined the most important fields within its Sustainable Development Goals, some were undoubtedly on the top of the list, among them was *Sustainable Energy for All*. The initiative seeks to bring all sectors of society together - businesses, governments, investors, community groups, and academia - in support of three interlinked 2030 objectives: universal energy access, EE and RE.

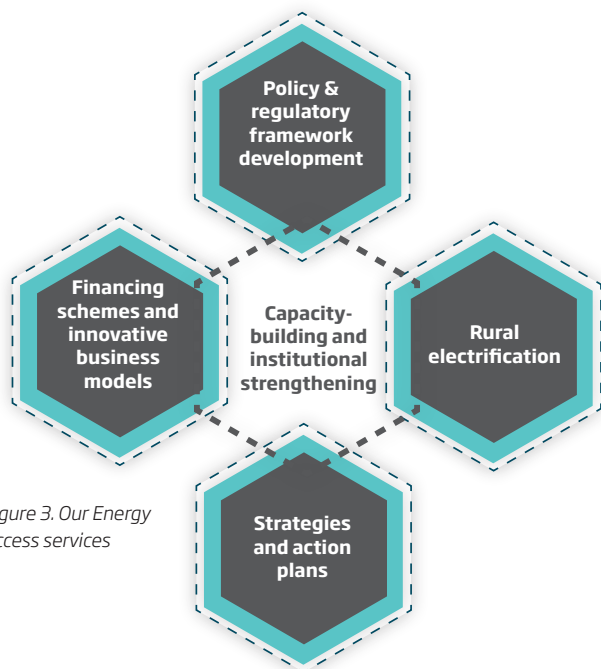


Figure 3. Our Energy Access services



Access to Energy in the poorest countries has begun to accelerate, but about one billion people remain without electricity, and close to three billion people have no access to clean cooking fuels and still rely primarily on inefficient and polluting cooking systems. Access to clean, affordable and reliable energy is vital for social and economic development and to power sustainable growth.

Significant success can be achieved with small pilot projects to improve energy access in some rural areas and among poor communities in urban areas. But subsequently, less thought is focused on how to scale-up from these small pilot and demonstration projects to market development and meet the needs of the larger population. NIRAS is there to bridge this gap and facilitate the multiplication of different energy access projects in low income countries and increase the economic growth by shifting toward RE sources of energy.

Our approach

NIRAS is committed to SDG 7 and promoting Access to Energy aiming at ensuring access to affordable, reliable, sustainable and modern energy for all. We contribute to universal access to energy by scaling up investments in renewable energy, alleviating energy poverty and supporting clean energy projects in developing countries.

Access to Energy in particular has a strong developmental impact as it deals with the realities of society and people on the ground. It demands a high level of analysis, understanding and sensitivity to carry out successful missions that have a lasting impact. NIRAS utilises its interdisciplinary strength from a variety of related competences to apply the right mix of considerations when executing such projects. The cross-cutting SDG targets of 'investment' (SDG 7A) and 'technology' (SDG 7B) play a crucial role in this respect. One of our key capabilities is the management of investments in clean energy initiatives - an important service that has

become one of the most effective approaches for stimulating the growth of the sustainable energy sector.

To advance the pace of energy access rates and foster RE deployment, NIRAS offers various services and knowledge products to bring together different experiences and best practices. These relate to design and implementation of enabling policies, tailored financing schemes and innovative business models and distributed RE applications for stand-alone and mini-grid systems in rural areas lacking local decentralised energy. We have strong experience in supporting energy planning on a national, regional and local scale as well as giving advice on all stages of mini-grid life cycle, including business and financial modelling, site selection, feasibility studies, community engagement, demand assessment, technical system design and capital raising. NIRAS also helps governments and public funding agencies to structure these mini-grid grant programmes, including the deployment of public-private partnerships and power purchase agreements that aim to accelerate the energy access in developing countries. In rural areas and areas off the grid, we are focusing on the promotion of productive use of energy as it is directly linked to positive socioeconomic development.

NIRAS is working in Africa, Asia and South America to help more people get access to clean and affordable energy.

Our services

- Analyses of markets and identification of shortcomings and opportunities to leverage private investments (link to Fund Management);
- Support institutional and capacity building, through the preparation of long-term power sector strategies and rural electrification master plans;
- Development of scenarios for energy production and use in local, regional and national systems;
- Harnessing of available energy sources and identification of short, medium- and long-term priority infrastructure projects to service areas with no or low access to energy;
- Development of strategies and action plans to ensure access to adequate, reliable, affordable, environmentally sustainable energy services;
- Strengthening the productive use of energy in decentralised areas.

“With successful implementation of the shortlisted projects, we are expecting to see the development of mini grids in 128 villages and the deployment of 65,000 solar home systems, allowing more than 700,000 people to access affordable and reliable electricity.”

Charlemagne Fandohan, Team Leader, Off-grid Clean Energy Facility, OCEF, Benin



The Energy and Environment Partnership Programme with the Mekong Region (EEP Mekong) ran in two phases: 2009–2012 and 2014–2019.

EEP Mekong’s overall goal was to improve livelihoods and climate resilience of rural communities through the provision of reliable, sustainable, and affordable energy for households, social institutions, and businesses (especially small and medium-sized enterprises). This was done by stimulating a market for renewable energy through business development, capacity building, and the improvement of policy frameworks.

During Phase II of EEP, a little over 190,000 people (of which about half were women) benefited from EEP Mekong-funded projects. These benefits mainly took the form of capacity building, employment, health benefits, and improved access to renewable energy. 63% of the programme’s investment projects were highly scalable, and several of the project developers are in the process of replicating the projects elsewhere.

Read the Results Brochure: <https://www.niras.com/media/10910455/eep-mekong-brochure.pdf>.



ENERGY ACCESS: A SELECTION OF PROJECTS



Review of SADC's Regional Energy Access Strategy and Action Plan	16 SADC Member States	European Commission	€133 700	May 2019- November 2019
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The Regional Energy Access Strategy and Action Plan (REASAP) was developed in 2010. The 2019 review of the REASAP sought to outline the achievements of the action plan and identified measures to accelerate energy access and close the gap on what had not been achieved. A gap analysis was performed to better grasp the challenges faced by the region, which have contributed to a slower rate of access growth than the REASAP aimed to have achieved by 2020. Challenges include lack of finance, low ability to pay by end-users, insufficient enabling environment for private sector involvement, and generation capacity restrained due to poorly maintained or outdated infrastructure. The revised REASAP aims at achieving Tier 3 access to affordable, reliable, sustainable and modern energy by 2030. The updated action plan is designed to reduce the challenges, and sets targets and indicators.

Bio-Energy for Sustainable Local Energy Services and Energy Access in Africa (BSEAA 2):	Sub-Saharan Africa	DFID	€1 113 625	2019-2021
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A two-year research for the 2nd phase of the Bio-energy for Sustainable Local Energy Services and Energy Access in Africa (BSEAA) programme, a constituent programme of the DFID Transforming Energy Access (TEA) programme. This research follows a Phase 1 scoping study carried out during 2016 and 2017. It focuses on ten sub-Sahara African countries in West, East and Southern Africa. BSEAA2 is targeted at bio-energy (biomass energy) entrepreneurs (particularly technology and project developers), investors and policy makers, to examine the commercial viability of bio-energy technologies in sub-Sahara Africa.

Off-Grid Clean Energy Facility	Benin	Millennium Challenge Corporation	€8 119 264	2017-2022
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In Benin, only 5% of households in rural areas have access to electricity. The majority of households and businesses connected to the electricity grid are located in more densely populated areas and large cities. The lack of reliable electricity supplies harms economic and human development, particularly in the north of Benin where extreme poverty is more widespread and food insecurity is high. The Off-Grid Clean Energy Facility (OCEF) is a US\$32 million 5-year Challenge Fund, which provides grants to innovative projects using RE technologies to provide access to energy services and electricity in areas not connected to the national grid. The 4 windows of the Facility make it possible to target different groups: critical public infrastructures and municipalities, private users and households as well as small businesses.

Energy and Environment Partnership (EEP) - Mekong	Cambodia, Laos, Thailand, Vietnam, and Myanmar	Ministry for Foreign Affairs Finland	€2 217 595	Phase I: 2009-2012 Phase II: 2014-2019
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The programme aimed to help improve access to sustainable energy while mitigating global climate change. Of 432 proposals, the EEP supported 39 projects, providing partial funding in the form of grants to project developers for feasibility studies and pilot and demonstration projects in RE and EE in the region. The projects implemented include biofuel, biogas, biomass, EE/ energy conservation, hydroelectricity, solar energy, energy recovery from waste, wind energy and hybrid renewable energies. EEP Mekong helped improve livelihoods and climate resilience in rural communities in the Mekong region through the provision of reliable, sustainable and affordable energy for households, social institutions and businesses (SMEs).

Green People's Energy - Conducting a Solar Irrigation market study	Ethiopia	GIZ	€46 192	2020
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Stimulating solar irrigation is an effective climate change mitigation and green growth strategy. It provides opportunities for small-scale private farmers to reduce out-of-pocket production costs. The objective of the study is to add to the productive use of energy measures via assessment of the current supply of solar irrigation solutions as well as the current and future demand by different target groups in the National Regional States of Amhara, Oromia, SNNP and Tigray.

“ A special thank you to the Government of Finland for creating this opportunity for women to enter the renewable energy sector. EEP Mekong supported us with knowledge and gave me the power to build a project that will transform domestic waste into electricity. I was also motivated to support the installation of rooftop solar panels for rural residents in Viet Nam.”



Dinh Thi Minh Thai, Director of the Micro-Finance and Community Development Institute, Vietnam. MACDI was one of the more than 100 project developers supported by Energy and Environment Partnership in the Greater Mekong Subregion. Over the course of two phases (eight calls for proposals), the EEP directly and indirectly supported 55 waste-to-energy, biogas, biomass, solar, and hybrid projects with a total value of EUR 28.9M in funding (EPP grant and private financing), benefitting almost 250,000 people living in the region.



ENERGY FINANCE

Overview

Access to capital is critical to supporting investments in the energy sector. First of all, achieving universal energy access by 2030 requires concerted action by all stakeholders to close financing gaps and enable an energy transition. According to the International Energy Agency, projected investments in mini- and off-grid technologies are estimated to be US\$6 billion per year till 2030, while actual needs are estimated at four times that level. The same is true for clean cooking technology where US\$ 1 billion is available annually out of a projected US\$4.5 billion in investment need. There is a clear financing gap and more needs to be done to encourage the private sector to provide sustainable solutions to meet demand.

Secondly, clean energy must be promoted. There is a need for private-sector financing to support RE investment. Yet, RE projects, especially in developing countries, face multiple challenges from the institutional, policy and regulatory level to the market and project level that can hinder the development and uptake of RE. This has led to a lack of bankable projects, making it difficult for investors to identify attractive projects, and therefore reducing available capital for those that are ready to be financed. Investors need market transparency and relevant information on regulations, markets and resource availability.

Thirdly, EE investments can have a short pay-back period. Technical assistance to financing institutions is required to ensure they have the necessary expertise to perform the due diligence of the projects and see that loans have a high performance rate.

Our approach

One of our key capabilities is the management of investments in clean energy initiatives – an important service that has become one of the most effective approaches for stimulating the growth of the sustainable energy sector. Bolstered by our vast network of offices across the globe, our expertise in investment planning, green

financing, and policy analysis has been used to support various multi- and bilateral development agencies, national and subnational governments and private players in a variety of countries to mainstream clean energy planning and decision-making into their development roadmaps and strategies. This form of capacity development in the energy sector gains importance as more and more governments aim to shift from fossil fuels to clean energy.

NIRAS has been successful in approaching the facets of creating bankable projects through ensuring the enabling framework developing tailor-made innovative solutions for sustainable and clean energy reforms, covering policy and regulatory frameworks, enhancing capacity of various stakeholders local and international, planning and adoption of sustainable energy solutions.

Our services

- Policy and regulatory advice;
- Capacity building and technology/knowledge transfers for public, private and non-governmental sector stakeholders;
- Institutional and organisational strengthening enabling the implementation of needed reforms to ensure private sector investments;
- Feasibility studies for RE and EE projects;
- Financing mechanisms for RE and EE projects;
- Management of challenge funds for co-financing energy projects. This entails implementing calls for proposals, including all steps from creating the framework, to making the calls, assessing projects, providing technical assistance, ensuring supervision and monitoring. In most of these funds NIRAS has established a results-based financing mechanism, including sound and detailed financial and technical verification to ensure payments are only being made upon achievement of the established milestones.

Providing electricity where the grid can't go in Benin

In Benin, 66% of the population has little-to-no access to electricity. The government struggles to keep pace with growing demands on the national grid, and expansion is hampered by a lack of finances and capacity. To spur investments in the electricity sector, the Millennium Challenge Corporation signed a US\$375M grant agreement with Benin. One of the main components is a US\$32M Challenge Fund – the Off-Grid Clean Energy Facility (OCEF) – for innovative and sustainable off-grid energy projects in rural and semi-urban areas. Using our SmartME fund management platform, NIRAS manages OCEF and applies a results-based financing approach to ensure effectiveness and increase the leverage of private capital support. OCEF supports grantees in reaching their break-even points and features four windows with various targets, including public infrastructure, community-based power generation, household energy services and energy efficiency measures.



ENERGY FINANCE: A SELECTION OF PROJECTS



Off-grid Clean Energy Facility	Benin	Millennium Challenge Corporation	€8 119 264	2017-2022
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The Off-Grid Clean Energy Facility (OCEF) is a US\$ 32 million 5-year Challenge Fund, which provides grants to innovative projects using RE technologies to provide access to energy services and electricity in areas not connected to the national grid. Grants are awarded through a competitive and objective mechanism implemented by NIRAS and their disbursement is conditioned by the implementation of results-based funding.

Energy and Environment Partnership (EEP) Programme in the Andean Region	Bolivia Colombia Ecuador Peru	MFA Finland	€1 620 000	2014-2016
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The EEP provided co-financing and TA for RE and EE solutions, energy services, pilot and demonstration projects, feasibility studies, capacity building, financing mechanisms, policy development to combat climate change.

Development and Implementation of M&E activities of the VEEIE project	Vietnam	World Bank	€ 90 000	2020-2022
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The Vietnam Energy Efficiency for Industrial Enterprises Project (VEEIE) aims at improving EE in the industrial sector. Industrial enterprises can apply for EE Investment lending, with IBRD contributing US\$100 million, and with 20% co-financing from Partner Financing Institutions and 20% own equity financing. NIRAS is providing technical support to the finance institutions and industrial enterprises for development and preparation of due diligence reports for bankable documents, to help ensure that the investment lending is having a maximum of impact.

Result-based Financing in Rural Energy Supply (Concept and Project Development, Learning and Strategic Advice)	Peru, Bolivia, Bangladesh, Kenya, Rwanda, Uganda, Tanzania	GIZ	€110 000	2012-2015
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NIRAS developed innovative results-based financing projects to support the development of a self-sustaining market for energy products in rural areas. During the inception phase of projects NIRAS advised on the initial set-up and market-based incentive setting. We further advised GIZ on their strategic positioning towards RBF and systematic learning processes from implemented projects.



The two-year 'Bioenergy for Sustainable Local Energy Services and Energy Access in Africa' project aims to investigate techno-economic barriers, supply chain challenges, market and policy issues, and innovative business models as well as financial solutions to identify potential opportunities and 'sweet spot' regions for bio-energy development in Sub-Saharan Africa. Our approach is to identify and characterise a portfolio of investment opportunities that highlight promising bioenergy pathways applicable to multiple locations and conditions.

Pictured here: Kilifi Plantations Ltd. bio-gas plant in Kenya where sisal is being processed.



RESEARCH AND MONITORING, EVALUATION & LEARNING (MEL)

Overview

Over the past decade, several international development donors have renewed and strengthened their commitments to research and monitoring, evaluation and learning (MEL) in the field of low carbon energy development. The amount spent by governments of low-income countries on research is increasing. This is because when delivering vital public sector funding to finance clean energy deployment, particularly as it takes centre stage in tackling global climate change, it's crucial to know whether they are being effective. Rigorous research, monitoring and evaluation help project teams understand whether their approaches are leading to desired outcomes.

In any context, improving results requires an understanding of what works and what does not. NIRAS has worked in partnership with clients worldwide for over 30 years to help them understand the effectiveness, efficiency and impact of their work and to identify lessons for future sustainable energy programmes and policies. We pair our contextual and thematic expertise in clean energy financing, policy and implementation with a deep understanding of research and evaluation theories and approaches, meaning that our services add value to end users and are practical, contextually

tailored and methodologically rigorous. Our approach to doing research and MEL puts user needs at the heart of our approach, ensuring that evidence is relevant to inform decision-making and that the evidence is shared in a way that promotes learning to build greater ownership and usability of findings.

Our approach

NIRAS has undertaken over 400 MEL assignments worldwide to date, at multiple levels: global policy, programmatic, and field projects - making sense of complex ongoing processes to ensure that research and evaluative evidence can support learning to improve performance, impact and more efficient use of aid resources.

We conduct field-based research, rapid synthesis of knowledge and best practice, put research into use and make it relevant to international sustainable energy development context. Our research and development activities mean we can bring state-of-the-art responses and a broad professional practice to the client. An obvious benefit of this approach is that we can catalyse innovative responses to complex interdisciplinary sustainable energy related challenges through a team-based approach.

“ Despite having such a big, varied team from various parts of the country and different companies, the project [Renewable Energy Performance Platform (REPP)] was managed exceptionally well. It felt like a full-team collaboration. Everything was delivered on time and any issues/questions were communicated effectively with the whole team. I don't have anything I would improve upon in this instance. It really was one of the smoothest projects I've worked on, which is impressive considering it's complexity - the team made it look easy.”

Lauren Atherton, Consultant, MEL unit at IMC Worldwide [contract manager to the Department of Business, Energy and Industrial Strategy (BEIS)]

In the context of evaluations, we have extensive experience applying theory-based approaches to inform the design of evaluations of both whole portfolios and individual energy and climate change mitigation programmes. We are skilled in a range of synthesis methods and approaches that use stakeholder engagement to support real time learning.

NIRAS's research and evaluation strength lies with its staff and associates. They have extensive practical experience in designing and implementing quantitative and qualitative research and evaluation studies in the areas of clean energy development, climate finance, and carbon markets.

NIRAS has worked on a number of complex, multi-country clean energy focused research and evaluation assignments such as the Bioenergy for Sustainable Energy Access in Africa research programme (DFID), Evaluation of the Carbon Markets Finance Programme (DFID, BEIS), Evaluation of the Climate Public Private Partnership Programme (BEIS), and other high profile evaluations such as Norway's International Climate and Forest Initiative (NORAD), Denmark's Climate Change Funding to Developing Countries (DANIDA), Germany and UK's jointly funded Nationally Appropriate Mitigation Actions (NAMA) Facility (GIZ), Meta-evaluation of CIFF's renewable energy portfolio (CIFF) and the mid-term evaluation for the Renewable Energy Platform Programme (BEIS)

We emphasise engagement and user needs throughout the cycle, with a focus on learning and communication for adaptive management. This ensures evidence is relevant to inform decisions that

need to be made and shared in a way that promotes greater ownership and usability of findings.

Our services

- Responsible commercial investment is an important component of sustainable development. Our experience of undertaking large multi-disciplinary energy programmes provides us with an understanding of the policy and regulatory environment, technological issues and advancements, economic considerations and business planning. This equips us to support clients with strategic analyses, market research, technology assessment, financial appraisal and concept design.
- NIRAS delivers monitoring support that is practical, useful, and built on credible evidence. We have experience in designing and implementing tailored monitoring activities that draw on a wide range of tools, methods and approaches.
- We pair contextual and thematic expertise in clean energy with a deep understanding of evaluation theories and approaches, so that our evaluation services add value to end users by being not only methodologically rigorous but also practical and contextually tailored.

Based on feedback from the Renewable Energy Performance Platform (REPP) client and project implementers (Camco Clean Energy), the recommendations provided by the mid-term evaluation provided a good basis for consideration of second instalment of the REPP programme. It was scaled up from £48 million to £148 million to mobilise private sector development activity and investment in small to medium-sized projects in Sub-Saharan Africa.





RESEARCH AND MEL: A SELECTION OF PROJECTS



Bioenergy for Sustainable Local Energy Services and Energy Access in Africa (BSEAA 2) Africa DFID €1 113 625 2019-2021

A two-year research for the second phase of the Bioenergy for Sustainable Local Energy Services and Energy Access in Africa (BSEAA) programme, a constituent programme of the DFID Transforming Energy Access (TEA) programme. This research follows a Phase 1 scoping study carried out during 2016 and 2017 by NIRAS-LTS International. It focuses on ten sub-Saharan African (SSA) countries in West, East and Southern Africa. BSEAA2 is targeted at bio-energy (biomass energy) entrepreneurs (particularly technology and project developers), investors and policy makers, to examine the commercial viability of bio-energy technologies in SSA.

Renewable Energy Performance Platform Africa BEIS €167 426 / €148 375 2018

The Renewable Energy Performance Platform (REPP) is a £48m BEIS-funded ICF programme. REPP aims to provide technical assistance (TA) and in select cases, results-based finance to small-medium scale RE project developers operating in Sub-Saharan Africa to help them attract finance and to make their project commercially viable. The overall objective of this assignment was for the execution of a mid-term evaluation of the REPP. The purpose was to support learning for BEIS on 'what is working, for whom and in what contexts'. Specifically, the evaluation is expected to provide BEIS with insights and analysis into the relevance, effectiveness and efficiency of REPP's overall strategy, services (RBF and TA), governance and delivery structures/processes and the value for money it offers.

Mid-Term Evaluation of the Nationally Appropriate Mitigation Actions (NAMA) Facility 2016 Global GIZ €130 500 2016-2020

Nationally appropriate mitigation actions (NAMAs) are an important modality in the post-Copenhagen and post-Paris climate finance arena. The €120 million NAMA Facility was officially announced by Germany and the UK at the 18th session of the Conference of the Parties (COP18) in Doha. The formative mid-term evaluation analysed and improved the understanding of the strengths and weaknesses of the NAMA Facility at all levels of governance; the relevance of the NAMA Facility to different stakeholders such as beneficiaries and recipient countries, donors, and delivery organisations; and ways to improve management and delivery. At a strategic level, the evaluation explored the role the Facility plays in the context of the wider landscape of climate financing, including its influence in relation to the Nationally Determined Contribution and Low Emission Development Strategies that, along with the Green Climate Fund, provide the framework within which specific NAMA actions may be coordinated and supported.

Meta Evaluation of the Renewable Energy Portfolio Global CIFF €1 152 792 / \$1 401 546 2018-2023

Over a four-and-a-half-year period, NIRAS-LTS will be conducting a meta-evaluation of the Children's Investment Fund Foundation's (CIFF's) Renewable Energy Portfolio. The portfolio is currently comprised of eight investments representing five geographies which are focused on influencing and shaping climate and energy policy in middle-income countries, either through direct technical assistance to government entities or by strengthening civil society ecosystems. NIRAS-LTS is using a flexible and adaptive cycle for the evaluation to ensure the approach remains responsive to complex and evolving contexts and is capable of growing in line with the portfolio. The methodology is theory-based, drawing on a range of evaluation approaches to answer key questions to inform high-level strategy decisions.

Development and Implementation of M&E activities of the VEEIE project Vietnam World Bank €90 000 2020-2022

The Vietnam Energy Efficiency for Industrial Enterprises Project (VEEIE) aims at improving energy efficiency in the industrial sector, through US\$156 million in investment lending based on IBRD loan finance, as well as co-financing from Partner Financing Institutions and own equity financing. NIRAS is providing technical assistance and project monitoring and supervision to assess impact and report on achievements, including energy savings and greenhouse gas (GHG) reductions. NIRAS is establishing the monitoring and evaluation methodology and system to ensure a sound and reliable data collection.



The Children's Investment Fund Foundation (CIFF) is a London-based foundation funding global interventions in climate change. Over the past five years, CIFF has committed close to US\$300 million in grants to increase renewable energy penetration, reduce greenhouse gas emissions, and improve air quality around the world.

The CIFF's Renewable Energy Portfolio is currently comprised of eight investments representing five geographies which are focused on influencing and shaping climate and energy policy in middle-income countries, either through direct technical assistance to government entities or by strengthening civil society ecosystems.



NIRAS-LTS International is using a flexible and adaptive cycle for the evaluation to ensure the approach remains responsive to complex and evolving contexts and is capable of growing in line with the portfolio. The methodology is theory-based, drawing on a range of evaluation approaches to answer key questions to inform high-level strategy decisions. NIRAS-LTS is utilising investment focal points based in the target geographies to ensure regular engagement with grantee organisations and programme staff within CIFF. The evaluation will deliver a range of products including investment level deep dives, light touch case studies, thematic portfolio-level evaluative synthesis reports and a suite of communications and learning materials.

Services provided by NIRAS-LTS:

- Theory-based methodology with adaptive cycle of selection and delivery annually;
- Combination of deep dives, case studies and thematic synthesis;
- Development of theory-based evaluation frameworks including two-tiered overarching theory of change, data synthesis framework and investment engagement strategy;
- Embedded evaluators through investment focal points based in country, providing regular engagement and touchstone role;
- Capacity building in terms of M&E and reporting for grantees;
- Development of communication, dissemination and wider learning materials.

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NIRAS offices around the world

Our decentralised structure ensures that we are always close to our projects. With 51 offices in 31 countries worldwide, we maintain strong local ties to clients, experts, and organisations in all of our key markets. Building on our motto "we listen, we learn, we deliver", NIRAS is proud to be a long-term partner in the pursuit of growth and prosperity for the countries in which we work. Our representations are staffed by professionals committed to building partnerships with local service providers, and we train and recruit local talent beyond the lifespan of individual projects. NIRAS sees this as a contribution to building sustainable and equitable future societies wherever we work. Contact our representatives to see how we can support your needs.

For a complete list of NIRAS country offices, visit our website: www.niras.com/locations

■ The next generation consultancy

Owned by a foundation and a percentage of its employees, NIRAS is an international multi-disciplinary consultancy firm with Nordic roots and values creating sustainable development solutions for a better, more equal, and stable world. We have about 2400 employees worldwide and implement projects in over 100 countries. We work across a broad spectrum of areas including construction, energy, water, climate change resilience, and infrastructure to rural development, the process industry, economic development, geodata, as well as urban planning. Our mission is to deliver tailored, innovative, value-creating, and results-driven solutions to enable our clients and partners achieve their goals. We do this by providing transformative support for positive change, addressing root causes, and magnifying impact through flexibility in implementation, capturing SDG-linked results, and celebrating successes.

Ethics and Sustainability

Through the more than 7000 projects NIRAS implements around the globe, we are doing our part to contribute to sustainable societies by meeting the UN's Sustainable Development

Goals (SDGs). All NIRAS results are linked to their contributions to one or several of the SDGs. In our own practice, we emphasise accountability and ethics. NIRAS is a signatory to the UN Global Compact and member of the International Federation of Consulting Engineers (FIDIC). Through these, we have committed to uphold a number of international principles.

International Consulting

A key business unit, NIRAS International Consulting collaborates with development organisations, donors, governments, institutional investors, and the private sector to design, manage, and evaluate projects and services that create opportunities for people to improve their lives and live in safe, equal, well-governed, and climate-resilient societies. We do this in partnership with our country offices and our extensive network of experts to ensure a comprehensive, results-driven approach that is both contextually sensitive and produces innovative outcomes for maximum value. We pride ourselves on efficient and effective results-based management.

Join our team of development practitioners in our goal to alleviate global poverty. Register your CV on our database: <https://cv.niras.com>

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