



**Internationally
Funded Projects**
Ministry of Electricity and Energy

الجمهورية اليمنية
وزارة الكهرباء والطاقة
Ministry of Electricity and Energy



"PIU OF INTERNATIONALLY FUNDED PROJECTS: ANNUAL REPORT 2024"



PIU Annual Report – 2024 :

"Towards a Sustainable and Resilient
Energy Future for Yemen."

"Aden, Republic of Yemen"

"A comprehensive overview of achievements,
challenges, and strategic objectives for
advancing Yemen's energy infrastructure."

WELCOME

PIU ANNUAL REPORT 2024

These objectives highlight the **PIU's commitment to addressing Yemen's energy challenges through strategic initiatives, collaboration, and innovation.**



PIU Profile INTRODUCTION

The Project Implementation Unit (PIU), headquartered in Aden, Yemen, operates under the Ministry of Electricity and Energy. In collaboration with international donors and local experts, PIU's mission is to enhance Yemen's energy infrastructure through projects that focus on sustainable growth, renewable energy, and resilience in critical infrastructure. This annual report presents a summary of 2024 achievements, budget allocations, and operational enhancements aimed at building a sustainable and reliable electricity sector in Yemen.

The Project Implementation Unit (PIU), operating under Yemen's Ministry of Electricity and Energy, is responsible for managing internationally funded projects aimed at enhancing energy access, infrastructure, and sustainability. With a focus on renewable energy, rural development, and institutional capacity building, the PIU plays a pivotal role in advancing Yemen's energy sector and fostering long-term growth and resilience.

"Enhancing energy access, infrastructure reliability, renewable solutions, rural development, and institutional capacity, gas power stations and the expansion of transmission and distribution networks".

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- OUR WELL EVALUATED
FACILITY



The assessment conducted by AFKAR Consultant for UNOPS focused on evaluating and enhancing the operational capacity of the PIU. It included comprehensive reviews of the PIU's financial management, procurement processes, and project monitoring frameworks. This process aimed to align the PIU's practices with international standards and improve its ability to manage donor-funded projects effectively.

Key objectives include enhancing operational efficiency, aligning with international standards, and addressing gaps in project implementation frameworks. The contract emphasizes collaboration with PIU stakeholders to deliver actionable recommendations for sustainable development and energy infrastructure projects.

The PIU is based in the temporary capital of Aden and is tasked with managing all internationally funded electricity sector projects in Yemen. This includes project planning, implementation, supervision, monitoring, and daily administration. The unit is led by a Director-General who oversees the work of six main departments: the Technical Department, the Procurement and Contracts Department, the Financial Affairs Department, the Administrative Affairs Department, the Environmental and Social Affairs Department, and the Planning and Monitoring Department.

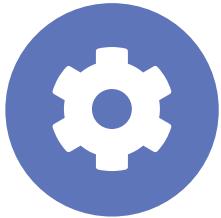


*Assessed, Developed,
organized, and
empowered*

Post Assessment

Following the comprehensive assessment conducted by AFKAR for UNOPS, the PIU leveraged its enhanced operational capacity to collaborate with the World Bank and UNOPS on key studies shaping Yemen's energy future. These include the Mini-Grid Solar Study under YEEAP II, assessing technical, regulatory, and market frameworks for decentralized energy solutions, and the "Opportunities in the Power Sector for Private Investors" study, which identifies pathways for private sector involvement in energy projects. Additionally, the PIU actively contributed to reviewing the Off-Grid Solar Market Assessment by UNOPS, offering valuable insights to scale renewable energy solutions in Yemen.

ABOUT OUR PIU



Implementing Projects

The Project Implementation Unit (PIU) is spearheading key initiatives to enhance Yemen's energy infrastructure, including the 400 MW Marib Gas Power Station, supported by the Kuwait Fund, and the "Scaling Up Solar Energy Applications in Yemen" project, delivering 16 MW of solar power across four locations in Lahj Governorate with \$13.8 million from China. Other notable projects include the Second Yemen Integrated Urban Services Emergency Project and Yemen Emergency Electricity Access Project Phase II (RY-EEAP-II), both funded by the World Bank and implemented by UNOPS. Additionally, private sector partnerships, supported by IFC and UNDP, are advancing 52 MW solar projects across four governorates (first phase). These initiatives underline the PIU's dedication to sustainable energy solutions.



Pursuing the Establishment of a Laboratory

The Solar Energy Laboratory, established under Yemen's PIU, is dedicated to advancing renewable energy technologies through research, quality assurance, and technical training. It focuses on testing solar panels, inverters, and batteries to ensure compliance with international standards while fostering innovation. Key activities include performance testing, durability assessments, and developing strategies for integrating solar energy systems with the national grid. Through collaboration with research institutions and organizations, the lab aims to enhance local expertise and align practices with global standards. This initiative supports Yemen's sustainable energy practices, contributing to energy independence and long-term environmental goals.



Preparing Studies

In 2024, the PIU conducted pivotal studies to advance Yemen's energy infrastructure. The **Off-Grid Study** focused on identifying viable renewable energy solutions for remote areas, ensuring access to sustainable electricity. The **Mini-Grid Study**, developed with UNOPS, explored cost-effective localized energy networks to support rural electrification. The **Master Plan Study**, conducted in collaboration with international consultants, outlined a comprehensive roadmap for optimizing energy generation, transmission, and distribution across Yemen. Additionally, the **PPA Study** formulated contractual frameworks to engage private sector investments in renewable energy projects, fostering sustainable development and energy independence.

"We have consistently focused on building strong, collaborative partnerships with international donors, emphasizing transparency and alignment with global priorities to drive sustainable energy solutions and transformative development in Yemen."

With support from the UAE, Saudi Arabia, the World Bank, UNDP, and IFC, is making significant strides in advancing renewable energy and infrastructure development. Landmark projects include Aden's 120 MW solar power station, planned 100 MW wind power facilities, and private sector-led solar plants in Abyan, Al-Mahra, and other governorates, in collaboration with IFC and UNDP. The PIU has played a key role in supervising transmission and distribution projects, conducting a detailed network study for Aden funded by the Saudi Program, and overseeing the construction of an HFO power station in Taiz Governorate. These initiatives, along with capacity-building efforts and the developing of a renewable energy framework, underscore Yemen's commitment to achieving energy sustainability by 2030.

● ENVIRONMENTAL IMPACT

CO₂ REDUCTION



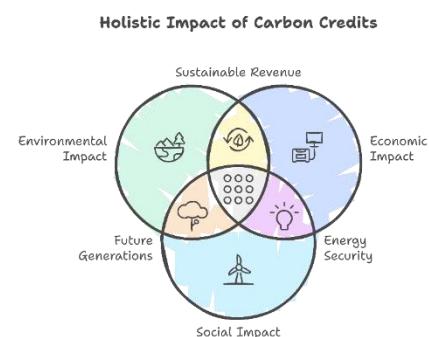
“ By registering the solar PV project under a recognized carbon credit program, the Ministry of Electricity can unlock substantial financial resources to fund renewable energy projects. This initiative not only aligns with the national vision for sustainable development but also positions the country as a leader in combating climate change.”

Study on CO₂ Emission Reduction Using a Solar Photovoltaic Power Plant

three different scenarios for grid emission factors: diesel-dominated grids, gas-dominated grids, and mixed-source grids (coal, gas, and diesel). Additionally, the study includes a detailed analysis of the plant's performance during October 2024, based on real data and estimations for the energy production and reduced CO₂ emissions for all circuits. The findings emphasize the role of solar PV in mitigating greenhouse gas emissions and highlight the variations in CO₂ reduction calculations based on different grid emission assumptions.

CO₂ Reduction

Diesel-dominated grid achieves the highest CO₂ reduction at **43.5%**, reflecting the significant impact of replacing diesel-generated electricity. The **Gas-dominated grid** contributes **27.9%**, demonstrating solar PV's role in lowering emissions from cleaner energy sources. The Mixed-source grid **accounts for 33.6%**, showcasing solar PV's effectiveness across diverse energy mixes. These figures highlight solar PV's capacity to significantly reduce CO₂ emissions across all grid types.



Annual Production of 120 MW and 25-Year Lifecycle Analysis

The solar PV plant has an annual production of 242,717.52 MWh. Over a 25-year project lifecycle, the total energy produced is:

$$\text{Total Energy} = 242,717.52 \text{ MWh} \times 25 = 6,067,938 \text{ MWh.}$$

CURRENT PROJECTS AND INITIATIVES

The PIU is actively managing several high-priority, internationally funded projects to address the country's electricity needs and infrastructure development. These projects focus on energy generation, infrastructure rehabilitation, and expanding access to electricity in underserved regions. Below are the key projects currently being implemented:

About the Marib Gas Station Maintenance Project.

The Marib Gas Power Station, located in Marib Governorate, is a critical component of Yemen's energy infrastructure, with a designed capacity of 339 MW, which can increase to 400 MW during winter due to lower temperatures enhancing performance. Currently, the station supplies the governorate with 145-150 MW using two turbines and has the capability to provide up to 220 MW if the demand arises. The third turbine, currently kept as a backup due to a minor issue, ensures operational resilience in case of turbine failure. Efforts to restore its operations, supported by funding from the Kuwait Fund for Arab Economic Development, underscore its strategic importance in stabilizing Yemen's energy supply. The station plays a vital role in reducing power outages, improving energy access for critical services and households, and decreasing reliance on imported fuels, thereby contributing to economic development and energy reliability.

About the Scaling Up Solar Energy Applications in Yemen

The "Scaling Up Solar Energy Applications in Yemen" project, funded by a \$13.8 million grant from the People's Republic of China, will initially be implemented across four locations in Lahj Governorate. The first phase includes installing solar power plants with capacities of 6 MW in Tur Al-Baha, 4 MW in Ras Al-Arah, 4 MW in Al-Madharibah, and 2 MW in Sha'ab. This project aims to benefit over 320,000 people, incorporating energy storage systems, enhanced electricity networks, and support for schools, healthcare facilities, and agricultural activities. It fosters sustainability through public-private partnerships and community capacity-building, setting the stage for Yemen's transition to renewable energy.



- MEET OUR TEAMWORK

OUR TEAM



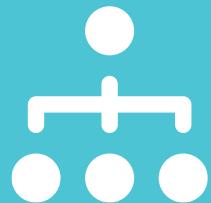
Administrative and Finance Departments

oversees budgeting, financial reporting, and resource management, ensuring compliance and operational efficiency.



Technical Engineering and Monitoring Departments

Manages project designs, supervision, and quality assurance for infrastructure projects. Additionally, it Oversees project evaluations, progress tracking, and alignment with strategic goals.



PIU'S ORGANIZATIONAL STRUCTURE



Procurement Department

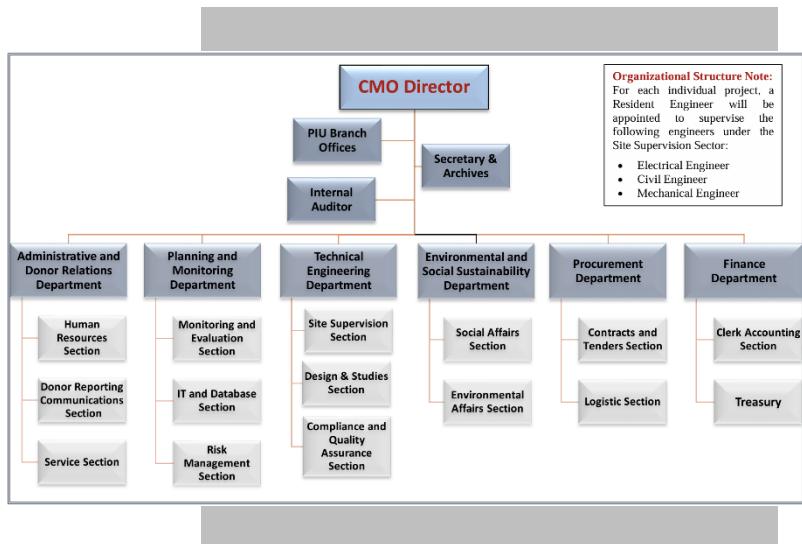
Handles tenders, vendor selection, and contract management to ensure transparent and efficient acquisition of goods and services.



Environmental and Social Sustainability Department

Oversees environmental compliance, social impact assessments, and community engagement to ensure projects align with sustainable development standards.

● ABOUT OUR EMPLOYEES



The Project Implementation Unit (PIU) is structured with a comprehensive organogram to ensure streamlined operations and adherence to international and governmental standards. The Steering Committee leads the unit and includes key stakeholders such as the Minister of Electricity and Energy, representatives from finance and planning ministries, and directors from the electricity and rural electricity authorities. The core team is led by the General Director of the PIU, supported by specialized departments such as Technical, Procurement, Financial, Administrative Affairs, Planning and Monitoring, and Sustainability and Environmental Management. These teams collectively ensure effective project implementation, compliance, and alignment with strategic objectives.

SWOT Analysis Summary for PIU:

An overview of the PIU's SWOT Analysis, outlined as follows:

- Strengths (Solid Organizational Framework) The PIU's structured framework, experienced workforce, and compliance with global standards like the World Bank and UNOPS enable efficient management of high-impact projects, rebuilding donor trust, and ensuring infrastructure development.

- Weaknesses (Areas for Capacity Enhancement) The PIU could strengthen internal audits, risk management, and transition to a blend of permanent and project-based staff for long-term knowledge retention. Enhanced documentation and reporting systems would improve transparency and accountability.

- Opportunities (Leveraging Growth Potential) The PIU can capitalize on Yemen's renewable energy focus and international donor collaboration to secure funding and technical support for innovative projects. Institutionalizing training and evaluations will further align operations with global standards.

- Threats (External Risks and Constraints) The PIU encounters challenges such as funding shortages, delays in donor approvals for project commencement, and setbacks in reactivating loans for stalled initiatives. These factors can hinder progress and disrupt the timely implementation of critical energy projects.

PIU Scope of Work:

The PIU operates across several critical functions to ensure effective project management, including:

-Project Management: Supervising all phases of project execution, from initial planning and design to implementation, monitoring, and reporting.

-Procurement and Contract Management: Ensuring compliance with international procurement standards, managing tenders, and overseeing contractors to ensure quality and timeliness.

-Financial Oversight: Managing project funds: maintaining transparency in financial transactions and ensuring compliance with donor requirements.

-Monitoring and Evaluation (M&E): Implementing robust M&E frameworks to assess project outcomes and performance.

-Stakeholder Coordination: Facilitating collaboration with international donors, government entities, and local stakeholders.

-Grievance Redress Mechanism: Ensuring a mechanism is in place to address complaints and concerns from affected communities and stakeholders.



Brief Overview Aligned to Objectives

- 1. Optimize Project Delivery:** The PIU effectively oversees logistics, procurement, and supply chain activities to ensure timely and cost-effective delivery.
- 2. Logistics and Procurement Manager,** ensure compliance with donor guidelines and streamline operations across the unit.
- 3. Ensure Compliance:** Departments like Finance and Administration implement robust internal controls, ensuring that budgeting, reporting, and procurement practices meet global standards. Financial professionals oversee detailed budget preparation and ensure fund allocation transparency.
- 4. Strengthen Institutional Capacity:** Through capacity-building efforts, PIU staff are trained in cutting-edge methodologies for planning, monitoring, and evaluation. The Planning and Monitoring Manager exemplifies this by establishing frameworks to track project outcomes effectively and foster continuous improvement.
- 5. Expand Access to Energy:** The PIU focuses on high-impact renewable energy projects, such as supervising solar power installations in underserved regions, aligning its goals with sustainable development objectives



Achieving our Goals

The Project Implementation Unit (PIU), under the Ministry of Electricity and Energy, has demonstrated remarkable success in its mission of managing internationally funded projects aimed at improving Yemen's energy infrastructure. To contextualize its achievements, this summary will align job descriptions and departmental strengths with the needed objectives.

 **Optimize Project Delivery**

The PIU focuses on maximizing the efficient use of internationally funded resources through streamlined operations and effective project management. These efforts aim to achieve strategic energy goals while ensuring transparency, accountability, and sustainable impact.

 **Ensure Compliance**

The PIU ensures its operations align with international standards and donor requirements by implementing robust policies, maintaining transparency, and adhering to best practices in project management and reporting.

 **Strengthen Institutional Capacity**

The PIU is dedicated to building robust systems and processes that promote governance, enhance transparency, and optimize resource utilization, ensuring long-term institutional effectiveness and resilience.

 **Expand Access to Energy**

The PIU aims to deliver transformative energy solutions to underserved communities by prioritizing renewable energy projects, improving access, and fostering sustainable development for long-term impact.

PIU OBJECTIVES & ACHIEVEMENTS



Expand Electricity

The PIU aims to enhance electricity availability across urban and rural areas in Yemen by implementing large-scale electrification projects. These initiatives are designed to improve living conditions, support economic activities, and ensure energy access for underserved communities.



Strengthen Infrastructure Reliability

A key objective is to maintain and upgrade existing energy infrastructure to ensure consistent and reliable electricity supply. This includes the rehabilitation of critical facilities like gas power stations and the expansion of transmission and distribution network.

Promote Renewable Energy Solutions



The PIU is dedicated to integrating renewable energy sources, such as solar power, into Yemen's energy mix. By installing solar systems in health and education centers and supporting renewable energy projects, the PIU seeks to reduce dependence on fossil fuels and promote environmental sustainability.



Enhance Rural Development Initiatives



Foster Capacity Building and Institutional Growth

Strengthening the PIU's institutional capacity through training and development programs is essential for ensuring effective project implementation. The focus includes enhancing staff expertise, improving operational protocols, and adopting best practices in project management and donor coordination.

Rural electrification remains a priority, with targeted projects to extend electricity to remote areas. These efforts are aimed at fostering economic growth, improving public services, and bridging the urban-rural energy gap.



NO. OF BENEFICIARIES

+4.7M



Renewable Energy
Projects Growth

+20%



Projects Managed

\$153.8M

The PIU relies on providing the necessary international funding to implement the most needed projects in accordance with the Ministry's work strategy.

THE PIU

HISTORY

2007'S

- Ministerial Decision No. 90 of 2007 regarding the adoption of a system for establishing project units to ensure the effective implementation of donor-funded projects.
- Ministerial Decision No. 143 of 2008 concerning the tasks of monitoring and evaluating projects funded by external loans.
- Cabinet Decision No. 81 of 2009 on the implementation procedures for externally funded projects.
- Ministerial Decision No. 33 of 2009 regarding the inclusion of the Al-Arish/Al-Hiswa project and the eastern segment project: Al-Habilayn/Al-Dhale'/Al-Bayda into the Project Management Unit for Transmission Lines and Substations in Marib: the main segment Dhamar/Ibb/Taiz/Aden.

2013'S

Ministerial Decision No. 47 of 2013 regarding the restructuring of externally and mixed-funded project units.

2019'S

Cabinet Decision No. 8 of 2019 concerning the implementation level of externally funded projects.

2023'S

Ministerial Decision No. 57 of 2023 to activate the PIU for externally funded projects, established by Ministerial Decision No. 47 of 2013.

2024 KEY ACHIEVEMENTS

- Completion of 87% rural electrification coverage, improving energy access for underserved regions.
- Installation of 16 MW solar power plants in Lahj, enhancing renewable energy adoption.
- Completion of the Master Plan for Aden Governorate.
- Advanced the PPA Agreement Framework, promoting investments in private sector.
- Initiated the Marib Gas Power Station restoration project, with a designed capacity of 400 MW, critical to stabilizing Yemen's energy grid.
- Launched the groundwork for Yemen's first Solar Energy Laboratory.
- Enhanced policy frameworks, including financial oversight and procurement systems, aligning with international standards.

PARTNERS AND INTERNATIONAL AFFAIRS

List of Local Partners

The Project Implementation Unit (PIU) has faced significant challenges since its establishment, particularly in 2015, due to the political and economic instability in Yemen. Despite these challenges, the PIU has worked tirelessly to sustain projects and achieve energy-related goals, including reopening channels of cooperation with international partners and exchanging updated information for effective project management.

- ➡ Ministry of Electricity and Energy
- ➡ Ministry of Planning and International Cooperation
- ➡ Ministry of Finance
- ➡ Ministry of Foreign Affairs
- ➡ Ministry of Water and Environment

International Partners

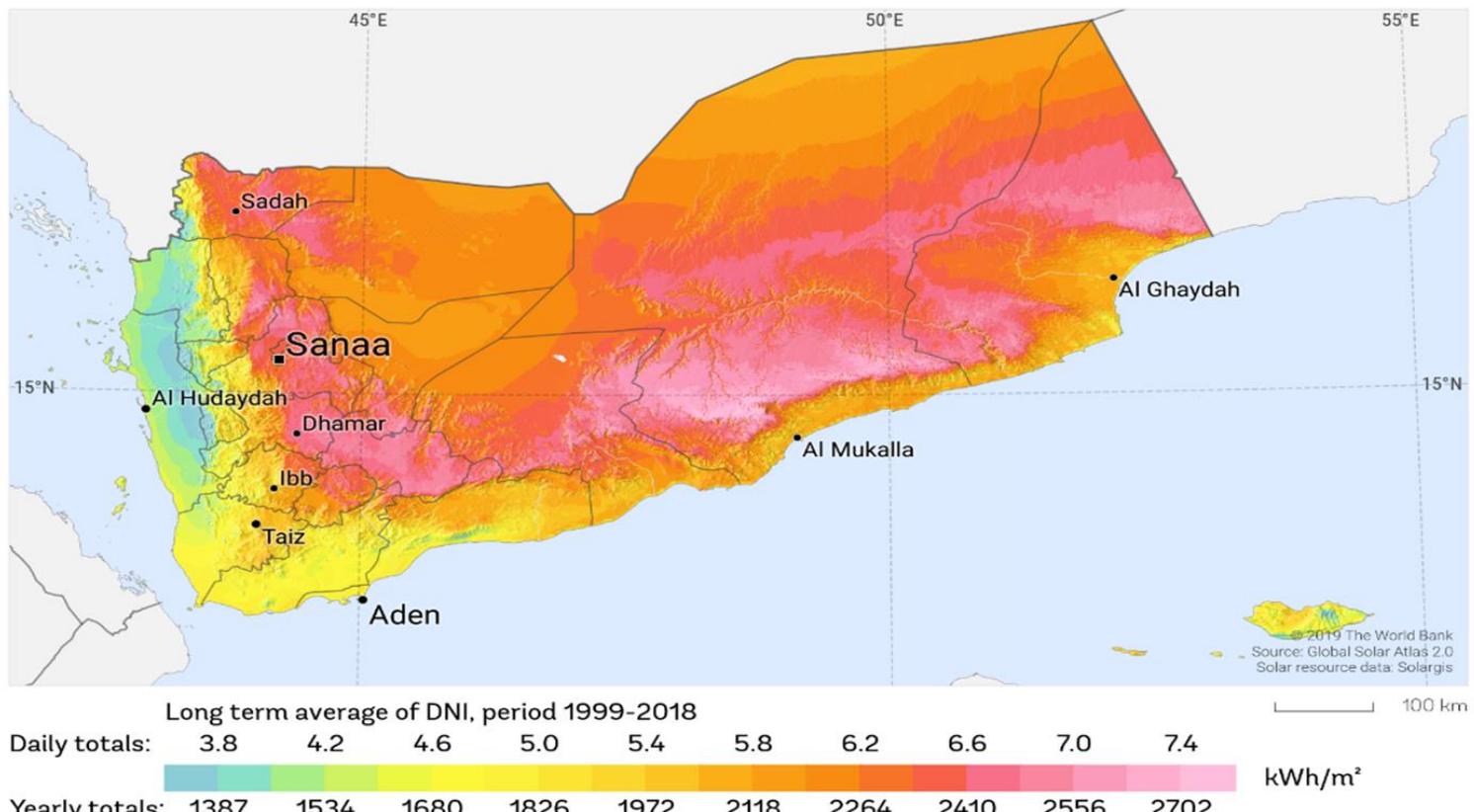
"PIU plays a vital role in fostering local and international partnerships to achieve sustainable energy solutions. These partnerships are instrumental in advancing Yemen's energy goals and aligning them with SDG 7, which focuses on affordable, reliable, and sustainable energy for all."



The PIU is committed to supporting the SDGs, particularly Goal 7, by: Ensuring access to reliable energy, Increasing the use of renewable energy sources and collaborating on international and regional levels to promote energy sustainability.



STRATEGIC RENEWABLE ENERGY SECTOR 2030.



Yemen is at a pivotal moment in its transition to renewable energy, as demonstrated by the successful implementation of the 120 MW solar power project in Aden, the first and largest of its kind in the country. This project highlighted the potential of solar energy as a reliable and sustainable alternative to address the nation's chronic power outages and reduce emissions from traditional power plants.

Since 2014, Yemen's electricity sector has faced rising energy demand, doubling in some regions due to demographic shifts, war-damaged infrastructure, and outdated facilities, with limited progress in strategic generation and transmission projects. Yemen's renewable energy strategy aims to achieve 3,000 MW capacity by 2030, focusing on solar and wind energy, modernizing infrastructure, attracting investments, and building local expertise to ensure sustainable energy independence and economic development. Key challenges include funding gaps and outdated infrastructure.

Yemen's renewable energy strategy aims to achieve 3,000 MW capacity by 2030, focusing on solar and wind energy, modernizing infrastructure, attracting investments, and building local expertise to ensure sustainable energy independence and economic development. Key challenges include funding gaps and outdated infrastructure. Yemen's renewable energy plan targets over 700 MW of utility-scale solar power across six governorates, including Aden, Lahj, and Hadhramaut, Marib, Taiz, Al Mahra and implements 80 MW of solar micro and mini-grids in rural areas like Abyan and Shabwa.

To further strengthen the adoption of solar energy, the Ministry recognizes the need for a specialized laboratory to certify and ensure the quality of imported equipment. The proposed facility will safeguard the country's energy future by promoting high standards, sustainability, efficiency, and trust in solar energy solutions.

List of projects supervised by the PIU Internationally Funded Projects with external funding for the year 2024 - 2025 (grants / loans)

#	Project/study donor for electricity and energy sector	Study or project submitted to the electricity and energy sector	Governorates benefiting from the project	Project Status	Project details
1	Saudi Program for Development and Reconstruction of Yemen	Proposal for a project to develop the electricity network to improve performance and reduce losses	Aden Governorate, Hadhramaut, Abyan, Lahj, Shabwa, Ad Dali, Al Mahrah	Documentary procedures are being completed	The project proposal for withdrawal from the joint account has been prepared, as well as the governance procedures and models that will be used within the project to supply and install transformer stations and network materials to reduce losses.
		Project to establish a 30 megawatt power plant in the Asifah area	Taiz	Under tender	Tender documents have been uploaded for companies and contractors that have been qualified by specialists in the Saudi program.
		Electricity grid development project to improve performance and reduce losses in Aden Governorate	Aden	Study under preparation	A tender was awarded to prepare a detailed study of the distribution and transportation sector in Aden Governorate by an international consulting company with the aim of implementing projects to reform the distribution and transportation sector system as a first phase, at a value of 30 million dollars.
2	Kuwait Fund	Implementation of projects in the field of generation and maintenance within the Saudi deposit to support the budget	Liberated governorates	In progress	A joint team was formed from the Ministry of Electricity and Energy and the Ministry of Finance, and an agreement was reached on the project matrix for the first phase, with the aim of implementing administrative and financial reforms, implementing projects to raise the efficiency of the electricity system, and activating the sector's regulatory systems.
		Marib Gas Station Maintenance Project	Ma'rib	Arrangements are underway to resume work on the project.	Work is currently underway to complete the amendment of the attached contract and prepare the tender document for appointing a consultant for the project.
		Al-Habilin-Yafa-Al-Bayda) Transmission Line Project	Al-Habilin-Yafa-Al-Bayda	Arrangements are underway to resume work on the project.	It is considered one of the stalled projects due to the circumstances of the 2015 war. Communication with the Kuwait Fund for Development was reactivated and it expressed its approval to resume the project after we updated the studies.
3	Abu Dhabi Holding Company	Aden Governorate Networking Project (Khormaksar - Al-Khasaf)	Aden	Arrangements are underway to resume work on the project.	The Kuwait Fund was contacted to resume the loan for the 133 kV transmission line project to connect the Khormaksar-Al-Khasaf area in Aden Governorate.
		Aden and Lahj Governorates Networking Project (Al-Haswa - Bir Nasser - Al-Arish)	Aden - Lahj	Arrangements are underway to resume work on the project.	The Kuwait Fund was contacted to resume the loan for the 133 kV transmission line project to connect the Aden and Lahj governorates.
		Implementation of a wind-powered power plant project in Aden Governorate with a capacity of 100 megawatts	Aden	Study under preparation	Coordination has been made with our brothers in the United Arab Emirates to establish a wind farm in Aden Governorate, targeting the areas connected to the grid in Aden, Lahj, Abyan, and Al Dhale'e Governorates. All data related to the site and technical details have been sent to the consulting authority.

4	Masdar UAE	Project to establish 120 megawatt solar power plants in Aden Governorate	Aden	The station has been fully operational.
	Project to establish a 53 MW solar power plant in Shabwa Governorate	Shabwa	In progress	The contract was signed in June 2024 to implement the project to establish a solar power plant in Shabwa Governorate with a capacity of 53 megawatts, and a storage system with a capacity of 20 megawatts.
	Project to establish 20 megawatt solar power plants in the Mokha area	Mocha	The station has been fully operational.	A project to establish a solar power station in the Mokha area with a capacity of 20 megawatts has been implemented, and the second phase of the project is currently being implemented with a capacity of 40 megawatts, bringing the total capacity to 60 megawatts.
5	United Nations Development Programme (UNDP)	Project to establish 100 megawatt solar power plants in Hadhramaut Governorate	Hadhramaut	Study under preparation
	Preparing five studies in the field of renewable energy, the mechanism for reforming the electricity sector, and the capacity building strategy for the Ministry of Electricity team and its affiliated institutions.	Liberated governorates	95%	UNDP completed a study through the international consulting firm Farnes Shuman for five studies in the field of renewable energy, short- and long-term recovery, and capacity building for the Ministry of Electricity team and its affiliated institutions.
	Raising the performance efficiency of the Ministry and Public Institution cadres in the legal aspect	Liberated governorates	60%	Appointing an international law firm to provide legal and contractual advice for renewable energy projects and prepare standard documents related to tendering and investment with the private sector to implement renewable energy projects.
	Translation of renewable energy contracts in partnership with the private sector PPA	Liberated governorates	40%	Appointing an international translation company specialized in translating legal contracts with the aim of preparing a final copy of the partnership and investment agreement with the private sector to implement renewable energy projects.
	Solar Energy Systems Support Project for Education Sector in Yemen	Liberated governorates	10%	The Ministry of Electricity and Energy held a meeting attended by a representative of the United Nations Development Programme (UNDP). The amount of support and the project destination were determined. The Ministry was asked to nominate a list of institutions or organisations that had previously implemented internationally funded projects. This project will be implemented through the Green Climate Fund.
	Project to establish solar power stations in partnership with the private sector with a capacity of 37 megawatts in Al Mahrah, Hadhramaut and Al Dhale	Mahra - Hadhramaut (Valley) - Ad Dhale	10%	The business model and framework for partnership with the private sector are currently being prepared by the United Nations Development Program to establish solar power stations in Al Mahrah Governorate with a capacity of 10 megawatts - Hadhramaut (Wadi) with a capacity of 20 megawatts - and Al Dhale'e with a capacity of 7 megawatts.
	Project to establish a 50 megawatt solar power plant in Abyan and Lahij governorates	Abyan - Lahij	30%	Work is currently underway to market the study prepared by the United Nations Development Program to establish renewable energy projects in Yemen and open the door to investment. As a first stage, funding is currently being collected to establish a solar power station in the governorates of Abyan and Lahij. This project will be presented at this year's donors' conference.

6	United Nations Programme for Project Services UNOPS	Preparing a study for Mini-Grid renewable energy projects	Yemen liberated governorates	The study has been completed. Study under preparation
7	Economic and Social Commission for Western Asia (UN) - ESCWA	The first national team to prepare the report on the Sustainable Development Goals 2030	Liberated governorates 20%	Currently, work is underway within the first national team, according to the directives of the Prime Minister and the submission of the Ministry of Planning to prepare the final report on the Sustainable Development Goals with the rest of the relevant authorities in the government.
8	American Embassy	International Visitor Program (3-6 months training)	Liberated governorates Under study	Coordination will be made to train and qualify technical and professional personnel from the institution's and the ministry's cadres annually.
9	Saudi Fund for Development - World Bank - Abu Dhabi Fund	Raising the efficiency of the performance of the Ministry's cadres and working to correct the administrative and financial aspects	Aden Marib - Aden 70%	Preparing studies and proposed reform plans and preparing standard documents related to submitting projects to donors, such as environmental, economic and financial feasibility studies for projects, etc., through a specialized international consulting company.
10	Qatar Development Fund	Transmission lines and transformer stations to discharge power from Marib Haiz - Ma'bar - Aden	Marib Stopped	The donors were looking into the possibility of reactivating the project, which has a total value of \$170 million, but the World Bank cancelled its contribution of \$35 million.
11	British Embassy	The second gas station in Marib with a power generation capacity of 450 megawatts	Marib Stopped	Work on the project has been suspended since 2015 and the percentage of users to the total loan value has reached 86%. The possibility of resuming work on the project must be sought to complete it and avoid damage to some of the equipment and materials that have been suspended in several locations as a result of not being transported to the station.
12	Green Climate Fund	Al-Haswa 2 Station Rehabilitation Project	Aden In progress	Currently, work is underway to reconstruct the turbines of the Al-Haswa 2 (Qatari) station with a capacity of 60 megawatts, as the turbines were transferred to the headquarters of the manufacturing company in the Netherlands. Since the station is in poor condition, there is a proposal to purchase a used station that runs on diesel fuel with a capacity of 300 megawatts, and work is underway to coordinate with an American company in this regard.

	Improving the efficiency of government power plants for the turbine of the Al-Haswa thermal power plant	Aden	Study under preparation	The manufacturer was contacted directly and in coordination with the friendly People's Republic of China in order to reduce the time and cost of life maintenance.
13	Utilizing the Chinese grant worth 100 million won to establish a 10 megawatt solar power plant	Lahij	Tender pending	Under the direct supervision of the Prime Minister and in coordination with the executive body, a meeting was held on how to benefit from the funding provided by the People's Republic of China for the electricity sector. After reviewing all options and evaluating them according to priority, it was chosen to implement two solar-powered stations with a capacity of 10 megawatts in the Al-Suhaila area, distributed as follows: 4 megawatts in Ras Al-Ara and 6 megawatts in Tur Al-Baha with a storage system and improvements in the transmission and distribution lines.
	Utilizing additional funding from the Chinese grant of 50 million won to establish a 5 MW solar power plant	Abyan	Study under preparation	Leveraging additional funding from the People's Republic of China to implement a 5 MW solar power plant in Abyan Governorate with storage system and improvements to transmission and distribution lines
	Study of the Memorandum of Understanding signed between our embassy in Beijing and the Chinese company "Tiba Energy"	Liberated governorates	The initial proposal has been submitted.	Under the direction of the Prime Minister, a joint team was formed by the Ministry of Oil and Minerals and the Ministry of Electricity and Energy to study the memorandum of understanding, and the proposal was submitted to the Ministry of Oil and Minerals for review and opinion.
14	Master Plan Aden	Aden	In progress	Moving forward with the World Bank to prepare the general electricity plan in Aden Governorate by hiring an international consulting company to raise the efficiency of the Ministry's team and prepare a roadmap for the electricity sector for Aden Governorate as a first phase.
	Yemen Integrated Urban Services Emergency Project II.	15 Yemeni governorates	The project is currently being worked on by UNOPS.	Supervision and implementation of part of the project worth \$30 million with support from the World Bank and implementation by UNOPS to install solar energy systems for homes, educational and health centers in cities
	Yemen Emergency Electricity Access Project - Phase II (RY-EEAP-II)	Liberated governorates	The project is currently being worked on by UNOPS.	The project components consist of two main components: 1) Access to electricity in rural and peri-urban areas. 2) Implementation support, market development and technical assistance for electricity sector sustainability.
	Private Sector Capital Mobilization Study Preparation Project	The contract was signed in early October 2024.		British international company has been appointed by the World Bank to provide recommendations on how to activate the role of the private sector in restoring the electricity sector infrastructure in Yemen, and increase the size of private sector participation in financing and operating public electricity networks, within the framework of public-private partnerships (PPP).
	Participation in preparing a report on climate and development in Yemen (CCDR)	Liberated governorates	In progress	Based on the letter from the Ministry of Planning and International Cooperation, a committee was formed to prepare a report on climate and development in Yemen.

15	International Finance Corporation - IFC	Shams Project (construction of solar power plants with a capacity of 97 megawatts)	Abyan - Lahj - Ad Dali, Hadhramaut, Al Mahrah
16	Daewoo Company	Technical Support and Capacity Building Project for Renewable Energy Projects (Scaling Solar)	Liberated governorates
17	Organisation for Economic Co-operation and Development (OECD)	Training and qualification project for the Ministry's staff in partnership with the private sector PPP	Aden
18	Russian government	A project to establish a liquefied gas conversion station with the possibility of expansion to establish a central station in Aden Governorate that operates on gas fuel to provide clean, sustainable and less expensive energy.	Aden Governorate
19	Egyptian Ministry of Electricity and Renewable Energy	Strategic Framework Programme for Institutional Capacity Building to Prepare for Recovery and Reconstruction in Yemen	Yemen
20	Regional Centre for Renewable Energy and Energy Efficiency - RCREEE	Al-Haswa Thermal Power Plant Turbine Repair Project	Aden

21	International Renewable Energy Agency - IRENA	The Agency holds annual meetings at its headquarters in Abu Dhabi, United Arab Emirates.	Liberated governorates	The Ministry team is invited to participate in annual conferences and workshops.	Annual meetings are held at the Agency's headquarters - Abu Dhabi.
22	United Nations Human Settlements Programme UN-Habitat	Distillers Rehabilitation Project at Al-Haswa Station	Aden	Study under preparation	Work is currently underway to complete the provision of the required studies and data related to the rehabilitation and maintenance of seawater desalination plants at Al-Haswa station.
23	International Monetary Fund	A special report on the electricity sector was submitted by the Ministry's team for the year 2022-2023 AD	Aden	In progress	In 2022-2023, technical meetings were held with the technical teams to collect data and information in the (Fact-Finding Mission), and a report on the electricity sector was submitted by the technical team in the Ministry. Later, the Fund sent a report on the electricity sector.
24	Japan International Cooperation Agency JICA	Improving performance efficiency in the field of capacity building	Aden	In progress	Coordination with the Japan International Cooperation Organization has been made on capacity building programs in both the administrative and financial fields as well as the technical ones for the electricity sector cadres.
25	Caritas Poland	Program to improve the electrical network connection to homes in Aden Governorate	Aden	Study under preparation	The Ministry submitted a detailed study on the need for network materials for each Directorate in Aden Governorate, explaining the details of the project to establish new networks with the aim of reducing random connections and reducing technical and non-technical losses.
26	International Growth Center-IGC	Preparing a study related to improving electricity services in Yemen and models for the mechanism of involving the private sector in providing electricity in Yemen	Liberated governorates	90%	After coordination with the British Embassy, the International Growth Center (IGC) was assigned to prepare administrative and economic studies and analyses on an ongoing basis until the targeted plan is achieved in parallel with the implementation of reform paths for the sector.
27	Climate Mitigation Fund	Call for Projects for 2024 to the Climate Mitigation Fund	Lahj	The study was prepared	The Ministry of Electricity and Energy coordinated with UNDP, with the involvement of the General Authority for Environmental Protection, where the questionnaire was filled out and the studies and requirements necessary to obtain funding from the Climate Mitigation Fund were attached, based on the studies submitted by the Ministry.
28	United States Agency for International Development - USAID	Raising the efficiency of the performance of the Ministry's and the Public Institution's cadres in the administrative and financial aspects	Aden	70%	After coordination with the United States Agency for International Development, Pragma Company was assigned to support the Ministry of Electricity and Energy in preparing feasibility studies and supporting the Ministry as an international consulting body working in the field of financial and administrative management, in addition to implementing capacity building programs for the Ministry's cadres and the General Electricity Corporation.
29	Islamic Development Bank	Rural electrification	Yemen	Stopped	The loan agreement was signed in 2009 and the withdrawal validity period continued until 2016. The user ratio to the total loan value reached 13.3%, and the total loan value amounted to \$16 million, where approximately \$2.1 million was withdrawn from the total loan value.

30	OPEC Fund for International Development	Rural Electrification Project	Yemen	Stopped
	Establishing Marib/Sana'a 400 kV transmission lines and developing the electrical grid	Marib - Sana'a	Stopped	The loan agreement was signed in 2010 and the user ratio to the total loan value was 3%. The total loan value is \$37.5 million, of which only \$1 million was withdrawn from the total loan value.
31	Arab Fund for Economic and Social Development	Marib Gas Power Plant	Marib	Stopped
	Construction of the second gas-fired power plant in Marib and expansion of the transmission network	Marib	Stopped	The loan agreement was signed in 2004 and the withdrawal validity period continued until 2018. The user ratio to the total loan value reached 98.1%, and the total loan value amounted to \$30 million, where \$27.6 million was withdrawn from the total loan value.
	Construction of the second gas-fired power plant in Marib and expansion of the transmission network (additional loan)	Marib	Stopped	The loan agreement was signed in 2007 and the withdrawal validity period continued until 2017. The user ratio to the total loan value reached 86%, and the total loan value amounted to \$25 million, where \$24.5 million was withdrawn from the total loan value.
	Establishing a 60 MW wind farm in Mokha	Mocha	Stopped	The loan agreement was signed in 2012 and the total loan value is \$18 million.



**Internationally
Funded Projects**
Ministry of Electricity and Energy



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**Thank
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