



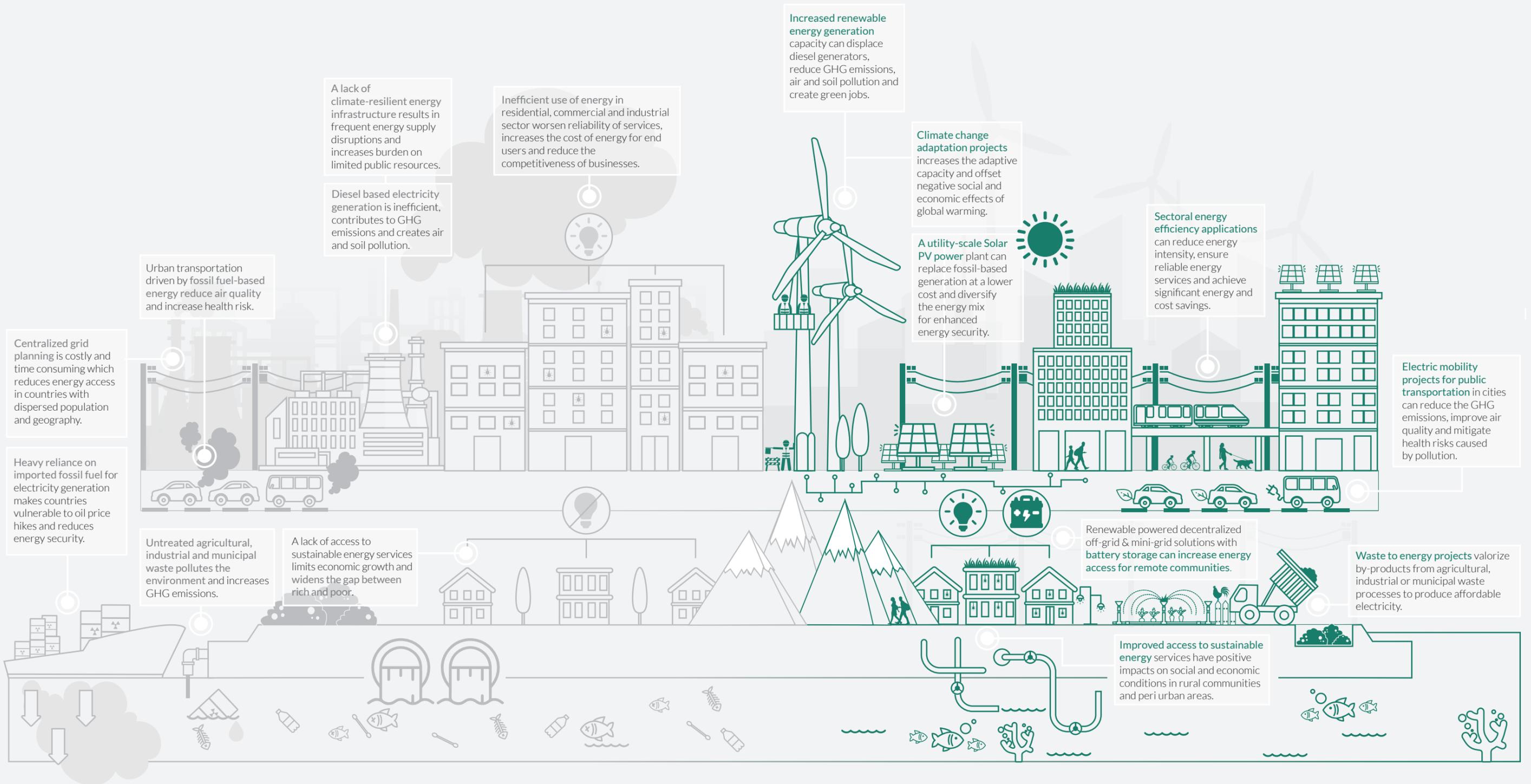
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SUSTAINABLE ENERGY



LESS SUSTAINABLE

- +

MORE SUSTAINABLE

- A lack of sustainable energy access limits economic and social benefits and slows the GDP growth of a country.
- Fossil fuel-based energy generation, transportation and industrial activities increases GHG emissions, air pollution and negatively impact quality of life.
- Inefficient use of energy weakens the reliability of energy services and results in reduced business profits.

Sustainable energy can play an important role in poverty alleviation, improving health and wellbeing while creating employment opportunities and driving economic growth.

- Generating sustainable energy contributes to GHG emission reduction and reduces air pollution while creating economic and social benefits.
- Diversifying energy supply and reducing dependence on imported fuels and/or fossil fuel-based energy can reduce pollution and create green job opportunities.
- Efficient use of energy can improve reliability of services and provide significant energy and cost savings.



OUR SUSTAINABLE ENERGY VALUE CHAIN



As a first step, GGGI's sustainable energy work starts with an initial diagnosis and green impact assessment of a partner country. This is essential to understanding and determining the country's national capacity and overall economic performance, as well as to identify major barriers, challenges and opportunities for green energy projects interventions.

This stage also includes carrying out an overall macroeconomic assessment to build awareness and a business case for green growth, highlighting sustainable energy interventions, followed by an identification of energy-related programs, policies, and technologies that can support greater social, environmental and economic benefits. GGGI engages with appropriate stakeholders involved in the energy or subsector landscape to develop an appropriate institutional arrangement for engagement.

GGGI strategies and plans work to leverage the energy sector as a driver of poverty alleviation, improved health and wellbeing, as well as employment creation and economic growth.

The key tasks of developing an overarching strategy and integrated sustainable energy plan start by reviewing sectoral policy frameworks, conducting a needs-based market assessment, and developing renewable energy and/or energy efficiency deployment programs.

Through a consultative and participatory approach, GGGI identifies opportunities to set clear targets and objectives through policy interventions or project ideas, as well as the magnitude of investments needed to meet a country's growing sustainable energy demands.

GGGI focuses on supporting partner countries by designing business models and outlines initial budgeting and resources required for selected projects. GGGI identifies relevant partners for engagement and then conducts resource mobilization to finance the project through public and private sources. GGGI carries out preparatory studies in support of a detailed financial assessment and business model, as well as replication, or scale up plans where needed. GGGI provides support in designing, structuring, and identifying potential financiers and investors.

As part of its services, GGGI seeks public capital to mobilize private sector investment through developing bankable funds, financial instruments, and National Financing Vehicles (NFVs), while addressing knowledge gaps and challenges in GGGI partner countries.

How GGGI's work on Sustainable Energy contributes toward its Strategic Outcomes

| Sustainable Energy Focus Areas | GHG Emission Reductions | Green Jobs | Access to sustainable services | Improved Air Quality | Adaptation |
|--|---|---|---|--|--|
| Expanded access to affordable and sustainable energy services. Improved sustainable energy generation mix. Enhancement and integration of energy efficiency. | Reduction in greenhouse gas (GHG) emissions through transition to renewable energy production and energy efficiency improvements. | Green jobs generated from the manufacturing of renewable technology components and implementation of sustainable energy projects. | Expansion of access to energy by all through increased renewable energy production. | Reduction in micro particles through transition from coal and fossil fuel to renewable, clean energy production and energy efficiency. | Early actions taken to prevent or minimize the damage that climate change can cause and reduce the vulnerability of social and biological systems. |





OUR WORK ON SUSTAINABLE ENERGY AROUND THE WORLD

Cambodia
Industrial energy efficiency

China
Climate cooperation project for
renewable energy deployment

Colombia
Waste to energy

Ethiopia
Solar PV development for
industrial park

Fiji
Utility scale and off-grid solar
renewables;
Policy advisory for sustainable energy
policy and regulation

Guyana
Distributed and utility scale solar
projects

India
Off-grid renewable energy fund

Indonesia
Policy advisory for regional
energy policy

Jordan
BRT electric vehicle project

Lao PDR
Utility scale solar renewable
auction project;
Electric vehicle dissemination

Mongolia
Policy advisory for improved energy
efficiency;
Renewable energy heating solution;
Renewable energy absorption project;
Mongolia Green Finance Corporation

Mozambique
Solar irrigation solution for
productive use

Papua New Guinea
Policy advisory for renewable
energy and energy efficiency
technology uptakes

Senegal
Renewable energy and energy
efficiency fund;
Waste to energy

Uganda
Waste-to-energy;
Policy advisory for Energy
Efficiency and National energy
policies;
Off-grid solar solution

Thailand
Industrial energy efficiency
program

Vanuatu
Policy advisory for National Energy
Roadmap implementation plan;
National Green Energy Fund
(NGEF)

Viet Nam
Distributed solar rooftop for
industrial parks;
Biomass waste to energy



18 Countries

Who we work with

as of May 2019

The sustainable energy thematic team works with local and regional institutions to deliver its programs. Some institutions that GGGI has worked with include the Green Climate Fund, ASEAN Centre for Energy, USAID, EU-DEVCO, United Nations Development Programme, National Renewable Energy Laboratory and PricewaterhouseCoopers.