

# Market and business development for solar power (photovoltaics) in Iraq



## Background

Solar energy / Photovoltaics (PV) has been identified as one promising technology which offers many potentials in Iraq for safe, reliable and sustainable power supply, job creation, diversification and private sector development. The climate conditions in Iraq support the extension of photovoltaics, using solar energy particularly in several economic feasible market niches while the discrepancy between power supply and demand encourage activities to increase energy efficiency.

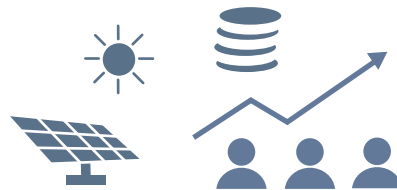
A sustainable market development for photovoltaics requires a steady and balanced increase of demand (for different solar power applications) and reliable and high-quality supply from private sector companies. The PV value chain consists of companies for system design, project development, wholesale, installation, operation and maintenance. Relevant job profiles for PV applications in PV off-grid, grid-connected or hybrid systems require skilled staff on different levels like engineers, technicians and installer.



### Further information:

<https://www.renac.de/projects/current-projects/solar-power-iraq>

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## Project objectives

With this project we want to support Iraq in its market development towards low-carbon, business-enabling and reliable power generation with PV and efficient use of power by promoting energy efficiency.

## Activity areas

Our activities will focus on three areas:

- 1. Market creation activities:** Support of information campaigns and enabling information sharing by launching a trilingual web-portal in Arabic; Kurdish and English.
- 2. Training activities:** Availability of skilled professionals by improving the training sector for short-term trainings with training material development, equipping of training centres for practical hands-on installations and Training-of-Trainer seminars.
- 3. Private sector development activities:** Support of companies interested in building up new markets with PV through a mentoring program, training offers and consultancy on market niches through Energy Innovation Coaches.

## PV market niches

Interesting PV market niches have been identified for:

### 1. Residential, commercial and industrial customers

- in a stable grid-connected setting to reduce energy cost and emissions, especially for high daytime loads such as air
- in a weak grid setting with additional backup functionality (storage vs. genset)
- in an off-grid setting to reduce diesel fuel usage, cost and emissions

### 2. Independent Power Producers (IPP)

- in a diesel-powered grid to reduce cost and emissions by integrating PV into power generation systems
- to provide public lighting via solar streetlights
- solar assisted pumping
- off-grid power generation

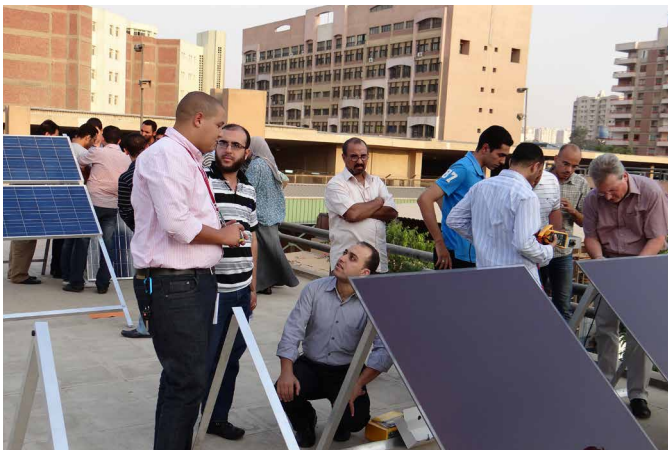
## Project profile

Duration: August 2021 until August 2023  
Geographic outreach: Main activities in Erbil, Baghdad, Basra  
Languages: English, Arabic, Kurdish

## Project frame

'Private sector development and employment promotion' is co-funded by the European Union and the Federal Republic of Germany. GIZ has been commissioned by the German Federal Ministry for Economic Cooperation and Development (BMZ)

This publication was produced with the financial support of the European Union (EU) and the German Federal Ministry for Economic Cooperation and Development (BMZ). Its contents are the sole responsibility of GIZ and do not necessarily reflect the views of the EU or the BMZ.



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Co-funded by the European Union



Implemented by  
**giz** Deutsche Gesellschaft  
für Internationale  
Zusammenarbeit (GIZ) GmbH

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