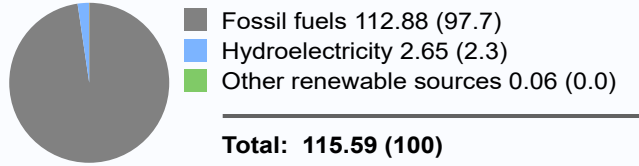


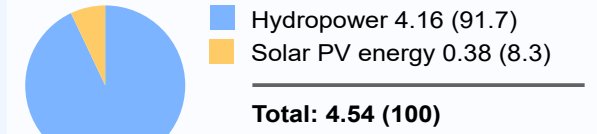
# Iraq • Electricity and Renewable energy

## Gross electricity generation 2022, TWh (%):



Source: Based on the U.S. Energy Information Administration data (Mar 2024).

## Gross electricity generation from renewable sources by 2021, TWh (%)



Source: Renewable Energy Statistics 2023 © IRENA

## Natural gas power plants over 500 MW, MW:

- 1 Baghdad Bismaya, 3000\*
- 2 Al Anbar, 1643\*
- 3 Duhok, 1500
- 4 Erbil, 1500
- 5 Sulaymaniyah, 1500
- 6 Rumaila, 1460
- 7 Al-Quds, 1400
- 8 Al-Khairat, 1250
- 9 Shatt Al-Basra, 1250
- 10 Khormala, 930
- 11 Nainawa, 750
- 12 Al Mansuriya, 728
- 13 Al Sadr, 640
- 14 Al Haidariya, 500

\* under construction

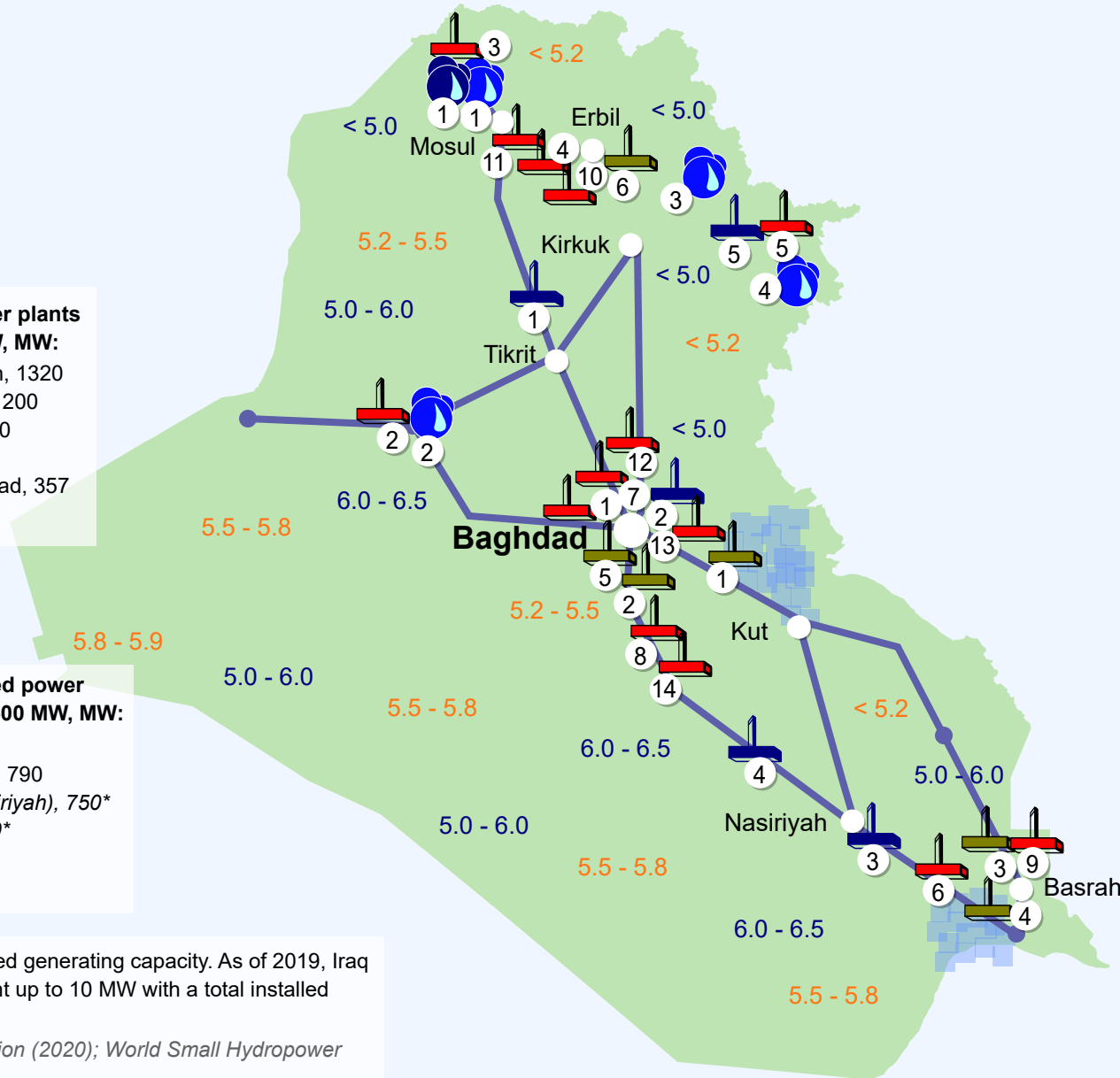
## Key oil power plants over 300 MW, MW:

- 1 Al Zubaidiyah, 1320
- 2 Al Mussaib, 1200
- 3 Al Hartha, 800
- 4 Najybia, 500
- 5 South Baghdad, 357
- 6 Khabat, 300

## Key combined power plants over 500 MW, MW:

- 1 Baiji, 1600
- 2 Doura (Dora), 790
- 3 Dhi Qar (Nasiriyah), 750\*
- 4 Samawa, 750\*
- 5 Bazian, 500

\* under construction



## High activity areas:

The most common solar GHI intensity is 5.8 - 5.9 kWh/m<sup>2</sup> per day, distributed in the west, in Al Anbar Governorate, along border line with Jordan and Saudi Arabia.

The most common wind speed is 6.5 - 7.0 m/s at 50 m are distributed in the eastern part of country, between Diyala and Wasit Governorates, and in the south, in Basrah Governorate.

Source: Energydata.info

## Pumped-storage plant over 100 MW, MW:

- 1 Mosul Dam, 240

0.0 kWh/m<sup>2</sup>/d Global Horizontal Irradiation (GHI)

0.0 m/s Wind speed

## Hydro power plants over 100 MW, MW:

- 1 Mosul Dam, 812
- 2 Haditha Dam, 660
- 3 Dukan (Dokan) Dam, 400
- 4 Darbandikhan Dam, 249

- 400 kV lines in service
- National grid 400 kV of other power plants, grid connection points, substations

In 2019 Iraq had 28.4 GW of electricity installed generating capacity. As of 2019, Iraq registered only 1 small-scale hydropower plant up to 10 MW with a total installed capacity of 6.0 MW.

Sources: U.S. Energy Information Administration (2020); World Small Hydropower Development Report 2019; Wikipedia.

