

## Capacity of operated renewable energy projects increases by 88% in 2025

The Renewable Energy Statistics 2025 showed that the total number of operated renewable energy projects increased to 15 projects by the end of the year, with a total capacity of 12,313 MW, representing an increase of 88.0% compared to 2024. This growth is attributed to the operation of five new solar energy projects during 2025, with a total capacity of 5,762 MW (Figure 1), (Figure 2).

Figure 1. Capacity of renewable energy projects by the end of 2025 (MW)

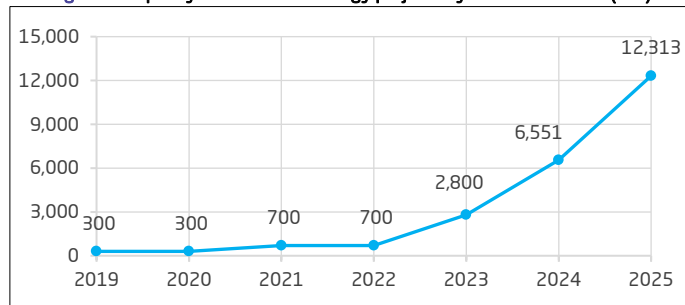
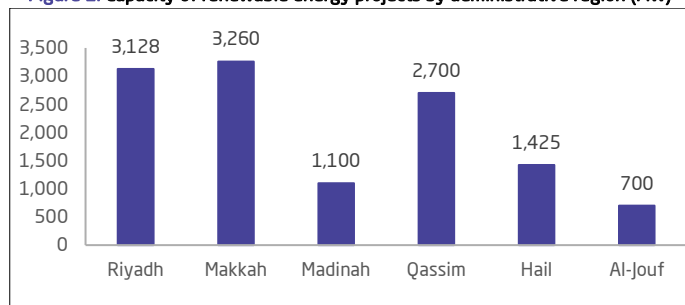


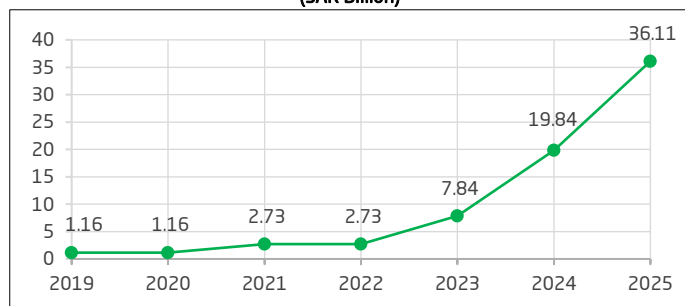
Figure 2. Capacity of renewable energy projects by administrative region (MW)



### Investment volume in renewable energy projects

The total cumulative investments in operated renewable energy projects by the end of 2025 reached approximately SAR 36.11 billion, with investments in projects that entered the operational phase during 2025 accounting for 45% of the total, amounting to approximately SAR 16.27 billion. Investment in Al-Rass (2) project reached SAR 5.52 billion, followed by Al-Kahfa project at SAR 4.06 billion, Al-Hanakiya (1) project at SAR 3.13 billion, and the Saad (2) project at approximately SAR 3.11 billion, while investment in the Wadi Al-Dawasir project amounted to SAR 0.45 billion (Figure 3).

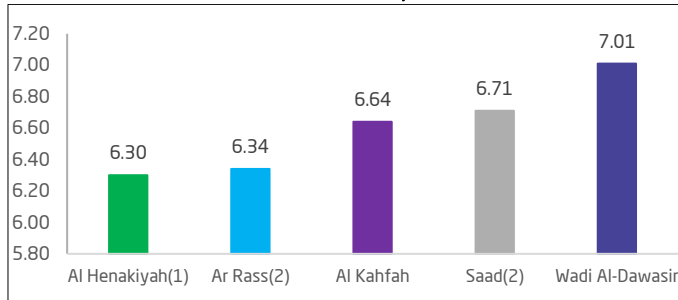
Figure 3. Investment volume in renewable energy projects by the end of 2025 (SAR Billion)



### Production cost in renewable energy projects

The weighted average production cost of operated renewable energy projects in 2025 reached 6.60 Saudi halalas per kilowatt-hour (halalas/kWh). The Al-Hanakiya (1) project recorded the lowest average energy production cost at 6.30 halalas/kWh, while the average energy production cost reached 6.34 halalas/kWh for Al-Rass (2) project, approximately 6.64 halalas/kWh for Al-Kahfa project, approximately 6.71 halalas/kWh for Saad (2) project, and 7.0 halalas/kWh for the Wadi Al-Dawasir project (Figure 4).

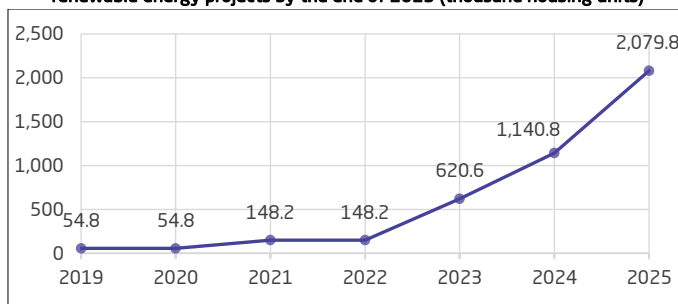
Figure 4. Production cost in renewable energy projects in 2025 (Saudi Halalas per Kilowatt-hour)



### Number of housing units estimated to be supplied with electricity from renewable energy projects

The total number of housing units estimated to be supplied with electricity from operated renewable energy projects by the end of 2025 reached approximately 2,079.8 thousand units. The number of housing units estimated to be supplied with electricity from projects that entered the operational phase during 2025 reached approximately 939 thousand units, representing an increase of 82.31% compared to 2024 (Figure 5).

Figure 5. Number of housing units estimated to be supplied with electricity from renewable energy projects by the end of 2025 (thousand housing units)



### Key Indicators of Renewable Energy Statistics

| Indicator                                                                                                 | Unit                   | By the end of 2025 |
|-----------------------------------------------------------------------------------------------------------|------------------------|--------------------|
| Number of operated renewable energy projects                                                              | Project                | 15                 |
| Capacity of operated renewable energy projects                                                            | MW                     | 12,313             |
| Investment volume in operated renewable energy projects                                                   | SAR billion            | 36.11              |
| Number of housing units estimated to be supplied with electricity from operated renewable energy projects | Thousand housing units | 2,079.8            |

Source :Tables.

### Methodology and quality

The Renewable Energy Statistics Publication presents data on renewable energy projects in the Kingdom of Saudi Arabia. The Ministry of Energy is the primary data source. The data are available as a time series covering the period 2019 -2025, and the publication is published annually. For more details, please refer to the [Methodology and Quality Report](#).