

Toolkits Initiatives for Green Electrons and Molecules

Empowering the Renewable Energy Transition

The Dii Toolkits Initiative is a cornerstone of Dii Desert Energy's mission to accelerate the renewable energy transition and achieve a sustainable, climate-neutral future.

By establishing a robust knowledge base, this initiative empowers stakeholders with the tools, insights, and connections needed to drive implementation, foster innovation, and create opportunities across the energy transition ecosystem.

As part of our ongoing research efforts, we focus on three pivotal initiatives aimed at building comprehensive project databases: the 'MENA Hydrogen Tracker', developed in cooperation with Roland Berger, the 'Renewable Energy Projects Database' and the 'Energy Storage Database'.

Primary Objectives

- **Streamline and Accelerate** the energy transition using state-of-the-art measures and techniques.
- **Enable Talent Connection** and foster collaborative opportunities for innovation and growth.
- **Leverage unique regional knowledge** to equip stakeholders in both the public and private sectors with cutting-edge resources to navigate today's dynamic energy markets.
- **Provide forward-looking insights** on the energy transition in the MENA region based on historical data and regional expertise

In a fast-evolving energy landscape, success depends on access to critical information, technical know-how, and effective collaboration. The Dii Toolkits Initiative bridges these needs by equipping stakeholders with actionable resources that enable a seamless and efficient transition to a sustainable energy future.

The Dii toolkit initiative is structured into four pillars:

1

How-To Guides and Plans: step-by-step resources to facilitate project development and implementation.

2

Market Intelligence Reports, Studies and Articles: a curated selection of reports, studies, and articles that provide actionable insights into energy transition trends, market developments, and technological advancements.

3

Techno-Economic Financial Modeling: tools for assessing the Levelized Costs of green electrons (PV & Wind), green molecules (hydrogen and derivatives), and energy storage. Offered on a SaaS basis, these models are available free of charge to Dii partners.

4

Databases: specialized trackers and forecasts, including the Renewable Energy Projects database, MENA Hydrogen tracker and Energy Storage Database

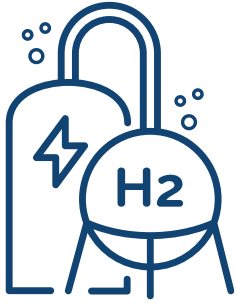
The Databases



Renewable Energy Projects database

This initiative provides a comprehensive outlook on the renewable energy landscape across the MENA region. It includes an in-depth analysis of the current project pipeline, categorized by status (e.g., operational, under construction, planned) and technology (CSP, On-grid solar, Onshore/off shore wind etc.). A complementary analysis providing insights on the database is available for partners.

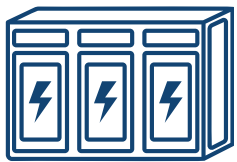
Additionally, we explore MENA-specific renewable energy targets, examining each country's goals and progress toward achieving them.



MENA Hydrogen Tracker

(in collaboration with Roland Berger)

In partnership with Roland Berger, we have developed an extensive Hydrogen Projects Database, which tracks announced hydrogen projects in the MENA region. This database highlights the region's growing role in the global hydrogen economy, with a focus on both green and blue hydrogen projects and their potential to reshape energy markets in the MENA region and beyond.



Energy Storage Database

(Coming Soon!)

With energy storage set for significant growth in the MENA region, especially within the GCC, Dii's independent research team is expanding its renewable energy database to include comprehensive resources on energy storage. This new addition will provide valuable insights into a rapidly evolving sector.

**For inquiries, reach out to Chiara Aruffo, PhD, Director of Research:
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Quick Links

Open access:

[Toolkit Presentations](#)

[Financial Models
Presentations](#)

Partners only (Restricted access, login required):

How-To Guides and
Plans

Market Intelligence
Reports, Studies and
Articles

Techno-Economic
Financial Modeling
Reports

Databases