هيئة كهرباء ومياه دبي
Dubai Electricity & Water Authority

الشاحن الاخضر
GREEN CHARGER

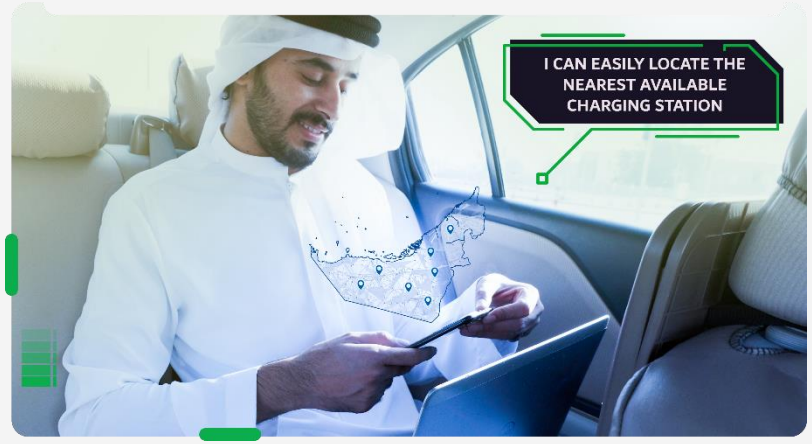
WHAT IS EV GREEN CHARGER INITIATIVE?

The Electric Vehicle (EV) Green Charger Initiative was launched in support of HH Sheikh Mohammed bin Rashid Al Maktoum's vision to make Dubai the smartest and happiest city in the world and to promote green transportation in the city.

In 2015, DEWA developed and installed 100 EV Green Chargers in highly frequented areas across the city. Since then, the network has expanded to more than 400 chargers across Dubai, equivalent to over 700 charge points.

DRIVE INTO A NEW LIFESTYLE

WITH THE ENHANCED EV GREEN CHARGER SERVICES



STRATEGIC DIRECTION

- UN Sustainable Development Goals
- UAE National Climate Change Plan 2017-2050
- UAE Green Growth Strategy
- UAE Energy Strategy 2050
- UAE Vision 2021
- UAE National Innovation Strategy
- EXPO 2020
- Dubai Integrated Energy Strategy 2030
- Dubai Carbon Abatement Strategy 2021
- Dubai Demand Side Management Strategy 2030

DUBAI REGULATIONS

His Highness Sheikh Ahmed bin Saeed Al Maktoum, Chairman of the Dubai Supreme Council of Energy, issued Directive number 1 of 2017 on the establishment and installation of electric vehicle charging stations in the Emirate of Dubai, which states the following:

All public and private organizations and developers in the Emirate of Dubai are required to obtain approvals from Dubai Electricity and Water Authority (DEWA) before establishing, installing, operating or maintaining any electric vehicle charging station. In turn, DEWA will coordinate with Dubai Municipality (DM) and the Roads and Transport Authority (RTA) to ensure that electric vehicle charging stations meet the technical requirements and standards adopted by the relevant authorities

The selling of electricity from electric Vehicle (EV) charging stations is governed by a specific tariff imposed by Dubai Government and implemented by DEWA as the sole provider of electricity for the Emirate of Dubai. Hence, developers or private stakeholders cannot implement a tariff for EV charging.

EV INFRASTRUCTURE REGULATION & LICENSING FRAMEWORK FOR THE EMIRATE OF DUBAI

To reinforce its commitment to accelerating EV adoption and fostering private sector involvement, DEWA is establishing a comprehensive regulatory and licensing framework for the development and operation of EV charging infrastructure across the Emirate.

It outlines a dual approach: Dubai will witness a combination of direct development of public charging infrastructure by DEWA (PJSC) and its subsidiaries, as well as infrastructure development from third party charge point operators (Independent CPOs) licensed by DEWA for the purpose.

The licensing regime is designed to safeguard DEWA's grid and customers through licence conditions that Independent CPOs shall comply with.

PAST INCENTIVES TO PROMOTE EV ADOPTION IN DUBAI

The UAE has implemented incentives on both the federal and local level to support electric vehicle adoption.
The UAE offers reduced registration fees for EVs on both the federal and local level.

- The Roads and Transport Authority (RTA) has exempted electric vehicles licensed in Dubai from public parking fees for two years starting from July 1st 2020, in addition to offering a free Salik tag for EVs registered within the Emirate.

- The incentive of free charging was launched by DEWA on September 1st, 2017 for all EV users registered in the DEWA EV Green Charger Initiative. An extension of the incentive was launched on January 1st, 2020 for all non-commercial EV users registered in the initiative, until December 31st, 2021.

Al Sa'fat – Dubai Green Building System

- Defined the percentage of the preferred parking spaced for the new buildings under certain categories.
- The percentage required for preferred parking spaces shall be calculated based on the total vehicle parking spaces required for the building
- 5% For Silver Sa'fa
- 7% For Golden Sa'fa
- 10% For Platinum Sa'fa

INITIATIVE ROAD MAP

PHASE I

100 EV Green Chargers installed by December **2015**

PHASE II

Total of 200 Charging stations by End of

2018

PHASE III

Over than 300 charging station by end of

2021

PHASE IV

Expansion of infrastructure in strategic locations

2022+

EXISTING INFRASTRUCTURE

KEY STAKEHOLDERS

ENOC

NAKHEEL

DUBAI HOLDING

EMAAR

ADNOC

DUBAI WORLD TRADE CENTRE

RTA

ROADS & TRANSPORT AUTHORITY

DUBAI HEALTH AUTHORITY

DUBAI MUNICIPALITY

DUBAIRPORTS

CHARGER TYPES

Ultra-Fast Charger
average Charging period

150 kW DC with type 2 Socket

Fast Charger
average Charging period

43 kW AC with Type 2 Socket, 50 kW DC ChadeMO and Combo CCS Sockets

Public Charger
average Charging period

2 x 22 kW AC, with double Type 2 Socket

wall box Charger
average Charging period

22 kW AC, with single Type 2 Socket

EV CHARGING STANDARDS AND TARIFFS

AC Charging

Type 2

0.7 AED/kWh + VAT

DC Charging

CCS Combo type 2

CHAdeMO

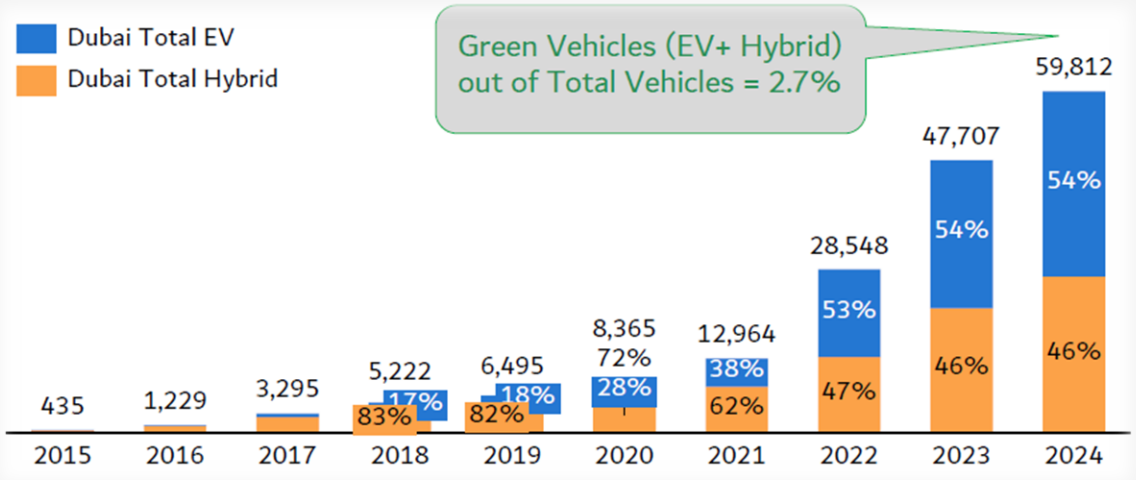
1.2 AED/kWh + VAT

EV CHARGING STANDARDS

Within the UAE, the most prevalent charging standards for AC charging is Type 2, while for DC charging the most prevalent standard is CCS Type 2 and CHAdeMO.

EV ADOPTION IN DUBAI

Since the launch of the EV Green Charger initiative, Dubai has seen a significant increase in electric vehicle adoption, with the number of registered electric vehicles in Dubai increasing from **71 vehicles** as of **Dec 31st 2015** to **more than 32,000** electric vehicles as of **End of July 2024**. This upward trend is expected to continue, with Dubai witnessing an increase in the variety of electric vehicle models available within its market. Forecasted Electric vehicle adoption to reach **58,000** EVs by **2030** and **110,500** EVs by **2035**



Total number of registered EV and hybrid vehicles in Dubai

CHARGING EXPERIENCE through DEWA Smart Application

- Through DEWA Smart Application; the EV charger initiative provided various services can be availed which will ease the customer experience:

Instant creation of EV account in DEWA upon registration with RTA

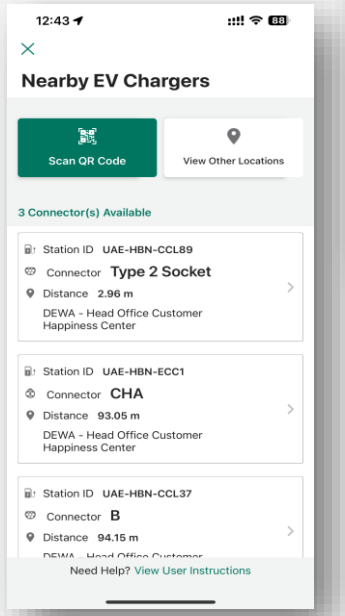
Smart & seamless charging experience

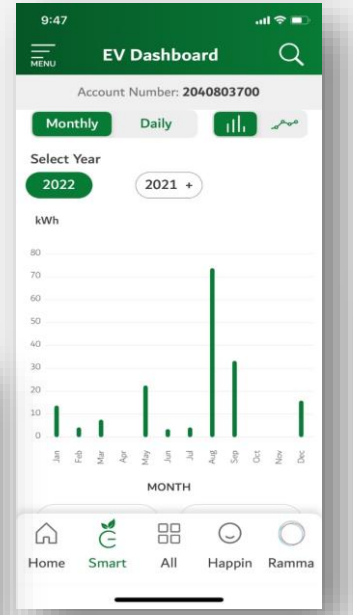
EV Green Charger User Dashboard

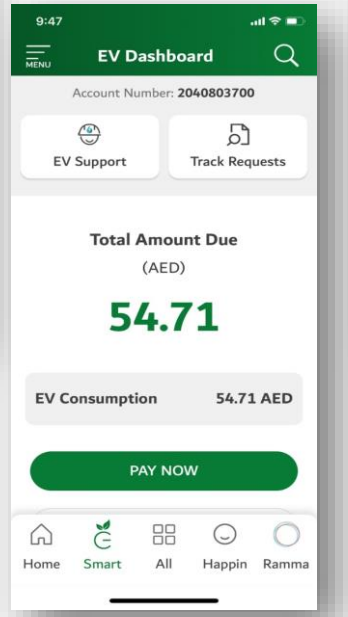
Locate nearest available EV green charger

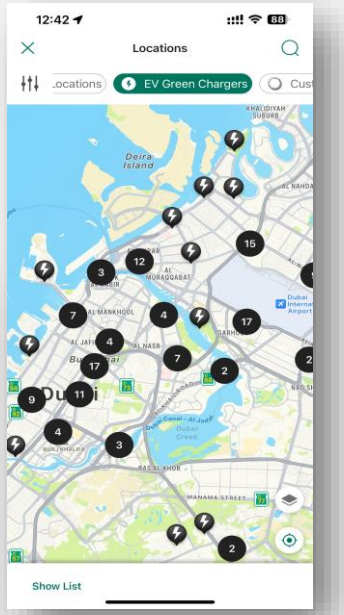
Flexible & Easy Payment

One-time charging (Guest mode)



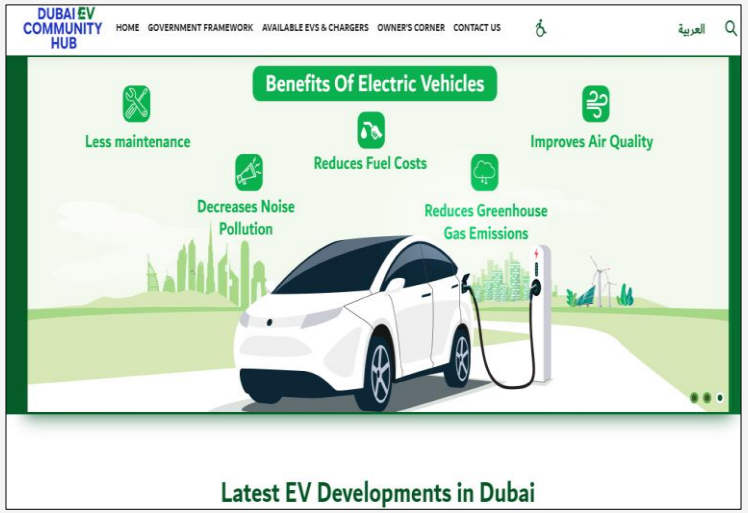


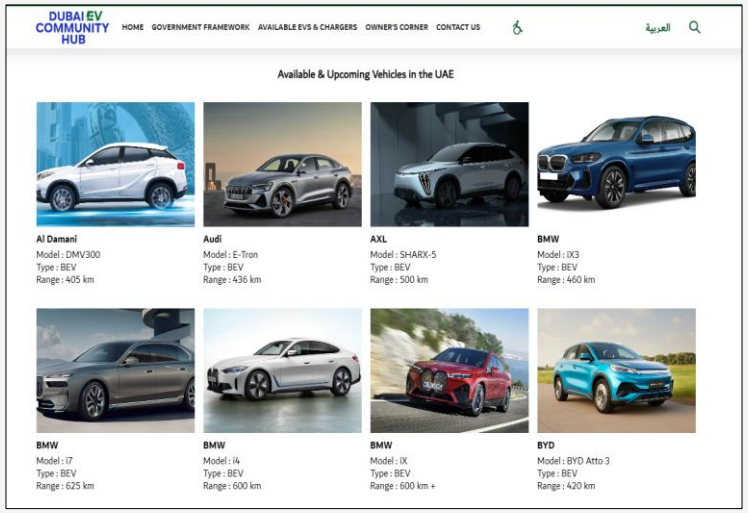


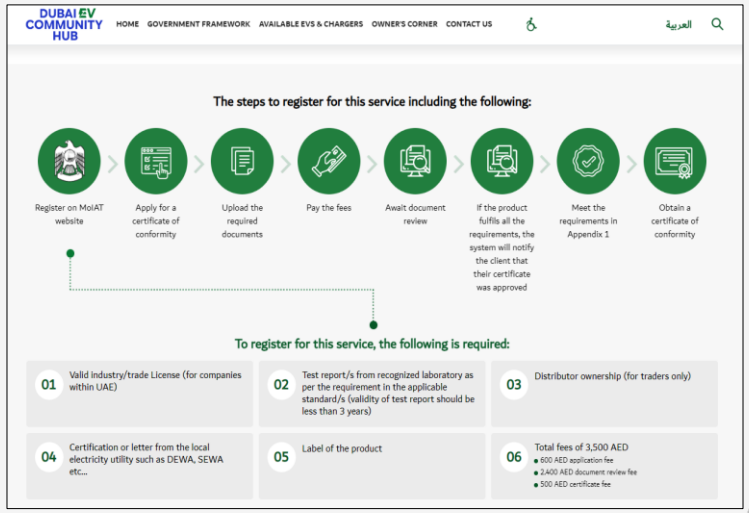


CUSTOMER EXPERIENCE

DUBAI EV COMMUNITY HUB







EV GREEN CHARGER INITIATIVE AWARDS & ACHIEVEMENTS

Hamdan Bin Mohammed Award 2016
Best New Government Service

Dubai We Learn
7 Star Benchmarking Proficiency Certificate 2020

Smart Cities Congress and Awards 2016
Best Smart City Initiative

The Golden Globe Tigers Award 2016
Best Renewable Resources Sustainable Transport

Asian Smart Cities Award 2015
Smart utilities Initiative

Q&A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