



**The State of Israel,
Ministry of Energy and Infrastructure**

Request for Information (RFI)- BE-V2G and FC-V2G Ecosystem for the Energy Market

Date: 19/07/2026

RFI Number: 11/2026

Subject: Bi-directional Charging Infrastructure, Heavy-Duty Fleet Integration (BEV/FCEV), and Energy Resilience Solutions for the Israeli Electricity Sector.

1. General Information and Project Context

Israel's Ministry of Energy and Infrastructures, in collaboration with NOGA (Independent System Operator), is conducting a market assessment to create a Vehicle-to-Grid (V2G) ecosystem. This project aims to maximize energy resilience and economic efficiency for heavy-duty transportation, such as trucks, buses, construction and mining machinery.

In Israel, the economic case for bidirectional charging of heavy-duty Battery Electric Vehicle (BEV) is driven primarily by time-of-use tariffs and emerging supplier discounts that create meaningful arbitrage spreads between off-peak and peak electricity prices. However, while there are worldwide some pilot demonstrations for BEV V2G, there is a missing link of specific, publicly documented pilot projects where a fleet of Hydrogen Fuel Cell (FCEV) trucks is actively performing V2G peak power shaving services. We believe that thanks to higher energy capacity, fuel cell stack discharging to generate electricity from stored hydrogen could be leveraged for longer-duration energy supply, longer duration of Peak Shave, and for enhanced island grid stability.

As the industry shifts toward zero-emission, we are specifically interested in vehicles and charging infrastructures that can serve as flexible energy assets. We seek technical information regarding current and upcoming (2026-2027) charging stations and models of BEV or FCEV heavy-duty vehicles.

2. Preliminary Time Schedule

- **RFI Release Date:** 21 July 2026
- **Deadline for Clarification Requests:** 23/08/2026
- **Deadline for RFI Response Submission:** 15/10/2026



3. Submission and Legal Terms

3.1. **Submission:** Responses shall be submitted in PDF format to V2G@energy.gov.il

3.2. **Non-Binding:** This RFI is for information-gathering purposes only and does not constitute a tender or a commitment to future procurement. A response to the RFI shall not constitute a condition for participation in any tender subsequently conducted, shall not confer any advantage in such tender upon any party that responded to the request solely by virtue of having responded thereto, and shall not obligate the respondent's participation in any such tender or the entering into any agreement therewith in any other manner.

3.3. **Confidentiality:** The Ministry shall maintain as confidential any information submitted by the bidder that is clearly identified in writing as confidential or as a trade secret, and shall use such information solely for the purposes of evaluating this RFI and any related procurement process. The Ministry shall take reasonable measures to prevent unauthorized disclosure, access, or use of such information, and any disclosure shall be made only to those persons who need to know such information for the performance of their official duties, and only to the extent required by applicable law, including the Freedom of Information Law, 5758-1998.”

3.4. **Intellectual Property:** The Ministry shall be entitled to review, use, and rely upon any technical information, concepts, methodologies, recommendations, or other insights submitted by the bidder for the purpose of preparing, refining, or issuing future specifications, requirements, or procurement documents. For the avoidance of doubt, nothing in this RFI shall be construed as granting the bidder any exclusive right, claim, or entitlement in respect of the Directorate/Company's use of such information for such purposes, save for the bidder's pre-existing intellectual property rights, if any, in its proprietary materials.

3.5 Repliers Information (Response Tables)

ID	Category	Requirement
3.5.1	Respondent	Name, Title, email and other contact information
3.5.2	Company	Name, Location, website
3.5.3	Segment	What does your company manufacture which may support V2G ecosystem? (BEV, FCEV, Bus, Truck, Construction and Mining Machinery, Charging Infrastructure, or other)



4. Required Information

4.1. Vehicle & Hardware Capabilities (Technical Depth)

ID	Area	Requirement
4.1.1	Bi-directional (V2G)	Do heavy-duty models (2026-2027) support bidirectional charging? Are the battery management system (BMS) and inverters hardware-ready?
4.1.2	Load Management	What is the maximum number of vehicles or loads your platform can manage concurrently at a single site? Describe any scalability limits.
4.1.3	Operational Limits	Identify technical limitations regarding V2G/V2X operations (e.g., State of Charge (SOC) thresholds, discharge rate (max output in kW), temperature constraints, or maximum discharge cycles per day).
4.1.4	Hydrogen (H2G)	For FCEV models, can the fuel cell stack export power back to the grid/facility while stationary? Specify max output (kW) and duration of discharge.
4.1.5	Lifetime and Warranty	How do V2G cycles affect the expected battery/fuel cell lifetime and warranty? Define "energy throughput" limits.

4.2. Advanced Communication

ID	Category	Requirement
4.2.1	Protocols	Does the system support both ISO 15118-20 and IEEE 2030.5 ? Detail the use of TLS 1.2 and PKI certificates.
4.2.3	OTA Capability	Does the hardware support Over-the-Air (OTA) updates for security and protocol evolution?
4.2.4	Response & Latency	Specify the response time (in milliseconds/seconds) to a load change signal. Detail the ramp rate for power discharge and the total latency from signal to execution.

4.3. Resilience & Emergency Operations

ID	Area	Requirement
4.3.1	Black Start	Can the system assist in "Black Start" operations—providing initial power to restart a local grid segment during a total blackout?
4.3.2	Islanding (V2B/V2F)	Describe the capability to operate in "Island Mode" to provide backup power to critical buildings. Clarify if this is possible for a single vehicle or if coupling (parallel operation) of multiple vehicles is supported.
4.3.3	Workforce	Describe training programs for local Israeli technicians regarding high-power Heavy-Duty charging installation.



4.4. Local Regulatory & Technical Compliance (Israel Specific)

ID	Category	Requirement
4.4.1	System Operator (NOGA)	NOGA is currently evaluating various solution for Demand Response (DR). One of the suggested solutions includes scheduling electric vehicles charging from the grid or discharging to the grid (V2G) Describe your system's capability for participation and communication while operating in various DR modes.
4.4.2	Grid Code	Confirm hardware (inverters) compliance with The Standards Institution of Israel (list of approved inverters can be found in the SII web site) Does your equipment support operation according with EN 50160 standard?
4.4.3	Smart Metering	IEC (Israel Electric Corporation) operates smart meters that operate at 15-minute resolution. Does your solution support operation in this resolution? How would your solution interface with IEC smart meters for TAOZ (Time-of-Use) billing and revenue-grade metering?
4.4.4	Cybersecurity	Regulatory Compliance Compatibility NOGA operates critical infrastructure subject to strict national and international cybersecurity regulations, including but not limited to ISO 27001, ISO 27035, ISO 27019, NERC CIP, and IEC 62443 . While full compliance certification is not required at the RFI stage, the Agency seeks to understand if the proposed solution is capable of operating within these frameworks. Please provide a brief narrative response to the following: Regulatory Alignment: Does your organization or solution currently hold certifications or attestations for any of the listed standards (ISO 27001, IEC 62443, etc.)? If not, is the solution designed with these frameworks in mind? Operational Constraints: Do you foresee any aspect of your solution—specifically regarding remote support, patch management, or network connectivity—that would limit or prohibit the Agency from complying with the strict controls mandated by these regulations? Data Sovereignty: Can you confirm that your solution architecture supports the requirement for all data processing and storage to remain within national borders or Agency-certified environments?



4.5. Commercial and Operational Models

ID	Area	Requirement
4.5.1	Local Presence	Describe your local technical support, implementation partners, and spare parts inventory strategy in Israel.
4.5.2	Cost Structure	Provide unit cost estimates for bidirectional hardware (CAPEX) and recurring SaaS/Aggregation software fees (OPEX). What are your underlying assumptions regarding pre-deployment preparations and infrastructure requirements that could impact the cost estimates
4.5.3	Economic Model	Provide an economic model estimate based on current Israeli tariffs (TAOZ). State the necessary regulatory or tariff changes required to make the business case economically viable. TAOZ scheduling and tariffs are available on Electric Authority web site For your convenience, see annex A- translated scheduling and tariffs as of January 2026.

5. Document Upload (Datasheets, White Papers, Case Studies).

6. Respondent Declaration

I, the undersigned, representative of [Company Name], hereby declare that the information provided is accurate and that I have the authority to submit this response.

Signature: _____ Date: _____