

# | PUBLIC-SOURCE TECHNICAL DOSSIER

## Global EV Outlook 2026: Observation, Projection and Assumption

### DECISION QUESTION

Which EV conclusions are observations, projections or assumption-dependent?

### EXECUTIVE POSITION

The IEA's Global EV Outlook 2026 combines observed historical data, early 2026 data and forward-looking scenarios. The report is strong for market structure and scenario analysis, but users should distinguish reported sales and policy facts from scenario-dependent projections extending to 2035.

|                                |                                                           |
|--------------------------------|-----------------------------------------------------------|
| <b>Product</b>                 | REVIEW                                                    |
| <b>Sector</b>                  | Automotive / electric mobility                            |
| <b>Jurisdiction</b>            | Global                                                    |
| <b>Evidence cut-off</b>        | 8 September 2026, 07:38 SAST                              |
| <b>Evidence sources</b>        | 12                                                        |
| <b>Controlled propositions</b> | 18                                                        |
| <b>Governing master</b>        | PHW Research AI v11.0 Approved Governing Master           |
| <b>Status</b>                  | CONTROLLED PUBLICATION CANDIDATE - HUMAN APPROVAL PENDING |

Package control & evidence architecture

|                                    |                                                                                                                                      |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Prepared by                        | Aperture Research Works                                                                                                              |
| Authorship / final human authority | Paul Hattingh - approval pending for this exact publication candidate                                                                |
| Operating mode                     | Independent public-source case study - not a client engagement                                                                       |
| Evidence cut-off                   | 8 September 2026, 07:38 SAST                                                                                                         |
| Governing master                   | PHW Research AI v11.0 Approved Governing Master                                                                                      |
| Research readiness                 | 95/100 - ready for controlled dossier construction with specified limitations                                                        |
| Evidence sources                   | 7                                                                                                                                    |
| Controlled propositions            | 18                                                                                                                                   |
| Public technical annex             | 15 pages, preserved in full as Annex A                                                                                               |
| Publication state                  | CONTROLLED PUBLICATION CANDIDATE - HUMAN APPROVAL PENDING                                                                            |
| Professional boundary              | No legal advice, audit opinion, engineering/actuarial certification, investment advice or other reserved professional determination. |

Six-document package

|   |                                 |                                                                                                               |
|---|---------------------------------|---------------------------------------------------------------------------------------------------------------|
| 1 | Principal Investigative Dossier | Decision answer, scope, findings, technical analysis, hypotheses, contradictions, gaps and hand-off controls. |
| 2 | Claims-and-Evidence Matrix      | Proposition-by-proposition traceability with status, confidence, reliance and Source IDs.                     |
| 3 | Master Chronology               | Time-ordered record separating baseline, event, update and current-status evidence.                           |
| 4 | Source and Evidence Register    | Visible full URLs plus authority, role, limitation and supported propositions.                                |
| 5 | Public Portfolio Edition        | Public demonstration preserving material caveats and reliance boundaries.                                     |
| 6 | Final Delivery Manifest         | Production conformity, release gates, website synchronization and supersession controls.                      |

## DOCUMENT 1

# Principal Investigative Dossier

## Evidence-chain reading rule

Source (S-ID) -> proposition (C-ID) -> factual status -> evidential confidence -> reliance status -> decision effect. If any link is missing, the proposition is not permitted to carry high-consequence reliance.

## 1. Matter understanding and decision frame

Decision question: Which EV conclusions are observations, projections or assumption-dependent?

Executive position: The IEA's Global EV Outlook 2026 combines observed historical data, early 2026 data and forward-looking scenarios. The report is strong for market structure and scenario analysis, but users should distinguish reported sales and policy facts from scenario-dependent projections extending to 2035.

Product outcome: Test the answer you already have. Separate observation, scenario projection and assumption before strategic reliance.

## In scope

- The IEA Global EV Outlook 2026 evidence architecture.
- Observed historical data, early-2026 indicators and forward projections.
- Scenario assumptions and how they travel with conclusions.
- Use of the report in strategy, market sizing and investment work.

## Explicit exclusions

- A competing EV forecast.
- Vehicle-level investment advice.
- Validation of every underlying national data series.
- Critique of IEA institutional competence.

## 2. Executive findings and technical operating analysis

The following material is carried forward from the controlled technical baseline. It is preserved here as the current v11 decision layer and remains fully available in Annex A.

### 2.1 Controlled technical record

#### Material findings

##### Finding 1

The IEA reports electric car sales above 20 million in 2025, representing about one-quarter of global new-car sales.

##### Finding 2

The report explicitly combines historical data with projections and scenario analysis.

##### Finding 3

Forward-looking fleet, oil-displacement and electricity-demand conclusions depend on policy, market and scenario assumptions rather than being observed facts.

##### Finding 4

The companion data product improves traceability by exposing the underlying data sets, but scenario outputs still require the assumptions to travel with the conclusion.

Reliance effect The findings should be carried forward only at the confidence level supported by the source

**record. Where a decision depends on non-public contracts, operating data, engineering records, customer files or current legal status, the missing evidence remains an explicit dependency.**

#### Observation, estimate and projection

The report combines historical sales data, early monthly 2026 information and scenario-based projections.

These are different evidence classes. A user should be able to label each number as observed/reported, estimated/preliminary or projected before carrying it into another model.

- 2025 global sales are historical observations/estimates in the report.
- Early 2026 monthly data are more provisional and can be revised.
- 2030-2035 fleet, oil and electricity outcomes are scenario outputs.
- Policy assumptions materially affect projected adoption.

Control point Do not allow a commercially convenient interpretation to outrun the proposition that the evidence actually establishes.

#### Scenario discipline

A projection is not weakened merely because it is scenario-dependent; the problem arises when the scenario label is stripped off. Reuse should preserve the policy setting, time horizon, geography and key assumptions.

- Carry Current Policies Scenario labels into downstream work.
- Do not present scenario outputs as forecasts with certainty.
- Test sensitivity to policy and energy-price changes.
- Record model/data release date.

Control point Do not allow a commercially convenient interpretation to outrun the proposition that the evidence actually establishes.

#### Data product and traceability

The companion data product improves reproducibility by exposing EV data and policy datasets. It does not eliminate uncertainty in model structure, policy assumptions or future behaviour. A good review links headline claims to the data and chapter that support them.

- Reconcile headline statistics to downloadable data where possible.
- Record units and vehicle categories.

- Avoid mixing BEV, PHEV and broader electric categories without definition.
- Preserve country coverage and missing-data caveats.

Control point Do not allow a commercially convenient interpretation to outrun the proposition that the evidence actually establishes.

### **Decision use**

For strategy, the report is strong context but should not be treated as a single deterministic market path.

Downstream models should distinguish IEA observations from Aperture/client assumptions and create explicit alternative cases where the decision is sensitive.

- Use observed data as baseline.
- Use projections as scenarios.
- Create downside/upside cases.
- Separate report facts from your own commercial assumptions.

Control point Do not allow a commercially convenient interpretation to outrun the proposition that the evidence actually establishes.

Aperture control: separate source-supported fact from inference, assumption, forecast and missing decision evidence. Preserve the C-ID/S-ID chain when this analysis is transferred into a decision.

### 3. Competing hypotheses, contradiction and gap controls

- H1 - Strong-form narrative
- The IEA's Global EV Outlook 2026 combines observed historical data, early 2026 data and forward-looking scenarios. The report is strong for market structure and scenario analysis, but users should distinguish reported sales and policy facts from scenario-dependent projections extending to 2035.
- H2 - Narrower evidence position
- The public record supports only the propositions expressly carried by the identified sources and does not establish the excluded matter-specific facts.
- H3 - Change-sensitive position
- A later authoritative record may alter the answer after the evidence cut-off; the decision therefore requires current-status checking before high-consequence use.

#### Contradictions and unresolved gaps carried from baseline

|                                                                                                                                                                                       |                    |                                        |                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------|---------------------------------------------------------------------|
| Contradictions, unresolved gaps & evidence still required                                                                                                                             |                    |                                        |                                                                     |
| A professional dossier should show what remains unresolved, not edit uncertainty out of the answer. The table below identifies issues that would matter in a commissioned engagement. |                    |                                        |                                                                     |
| Issue / proposition                                                                                                                                                                   | Current position   | Why unresolved matters                 | Evidence / action required                                          |
| 2035 fleet outcomes are observed facts                                                                                                                                                | Contradicted       | They are scenario projections.         | Obtain stronger primary or matter-specific evidence before relying. |
| A single scenario should be used as guaranteed planning case                                                                                                                          | Not established    | Use sensitivities and alternate cases. | Obtain stronger primary or matter-specific evidence before relying. |
| Scenario stripped from number                                                                                                                                                         | Open control issue | Turns projection into pseudo-fact      | Carry scenario label and date.                                      |
| Category mismatch                                                                                                                                                                     | Open control issue | Distorts market share                  | Define vehicle classes.                                             |

## 4. Risk, failure modes and decision hand-off

Risk, failure modes & controls

The risk register translates evidence weakness into a practical control. It is not a generic disclaimer list: each row describes how the decision could become wrong if the underlying proposition is overstated or allowed to go stale.

Risk / failure mode Why it matters Control / next action

Scenario stripped from number Turns projection into pseudo-fact Carry scenario label and date.

Category mismatch Distorts market share Define vehicle classes.

Preliminary 2026 data revision Can change trend interpretation Mark provisional data.

Policy shock Can move adoption path Run alternative policy cases.

Regional aggregation Hides divergent markets Use country/region decomposition.

Downstream model double counting Reuses IEA assumptions plus new Map assumption lineage.  
assumptions

### Decision-transfer checklist

Decision and hand-off checklist

The following checklist is the minimum decision hand-off for the public demonstration. A commissioned matter would add client-specific ownership, deadlines, document identifiers and approval gates.

- Label each key number observed, preliminary or projected.
- Record scenario and time horizon.
- Reconcile headline claims to data product.
- Define EV category and geography.
- Preserve policy assumptions.
- Create alternate cases for material decisions.
- Version-control the IEA release.

Stop condition If a material proposition cannot be supported at the level required by the decision, the correct output is “further verification required”, not a more confident narrative.

Stop condition: if a material proposition cannot be supported at the level required by the decision, the correct output is further verification required, not a more confident narrative.

5. Entity, relationship and quantitative control registers

| ID  | Entity / organisation       | Evidence role               | Boundary                                                                                                                                                         |
|-----|-----------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| E01 | International Energy Agency | Evidence origin / custodian | Relationship established only to the extent shown by the cited record. Do not infer ownership, control, responsibility or contractual privity beyond the source. |

Quantitative / metric control

Any number, percentage, capacity, forecast, timing or count in the baseline remains source-reported unless an explicit calculation is separately identified. Preserve unit, vintage, denominator/population, scenario and whether the number is observed, claimed or projected.

Fairness, privacy, copyright and right-of-reply controls

Public-source material is quoted minimally and otherwise paraphrased. Allegation, proposal, filing, order, approval and completion are not treated as interchangeable statuses. Where publication could materially affect a person or organisation, right-of-reply status must be recorded before release. Silence is not admission.



## DOCUMENT 2

# Claims-and-Evidence Matrix

Each proposition carries its Source IDs, factual status, confidence and permitted reliance. The matrix is the bridge between narrative and responsible reliance.

| ID  | Controlled proposition                                                                                                                                                                                                                                                                                  | S-IDs              | Status                    | Confidence | Reliance                   |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------|------------|----------------------------|
| C01 | The IEA reports electric car sales above 20 million in 2025, representing about one-quarter of global new-car. The report explicitly combines historical data with projections and scenario analysis.                                                                                                   | S01, S02, S03, S04 | Established               | High       | Direct within stated scope |
| C02 | The report combines historical sales data, early monthly 2026 information and scenario-based projections. These are different evidence classes. A user should be able to label each number as observed/reported,                                                                                        | S01, S02, S03, S04 | Supported                 | Moderate   | Conditional                |
| C03 | A projection is not weakened merely because it is scenario-dependent; the problem arises when the scenario label is stripped off. Reuse should preserve the policy setting, time horizon, geography and key assumptions.                                                                                | S01, S02, S03, S04 | Supported                 | Moderate   | Conditional                |
| C04 | The companion data product improves reproducibility by exposing EV data and policy datasets. It does not eliminate uncertainty in model structure, policy assumptions or future behaviour. A good review links headline                                                                                 | S01, S02, S03, S04 | Supported                 | Moderate   | Conditional                |
| C05 | For strategy, the report is strong context but should not be treated as a single deterministic market path. Downstream models should distinguish IEA observations from Aperture/client assumptions and create explicit                                                                                  | S01, S02, S03, S04 | Established               | High       | Direct within stated scope |
| C06 | guaranteed planning case cases.                                                                                                                                                                                                                                                                         | S01, S02           | Supported                 | Moderate   | Conditional                |
| C07 | The IEA's Global EV Outlook 2026 combines observed historical data, early 2026 data and forward-looking scenarios. The report is strong for market structure and scenario analysis, but users should distinguish reported sales and policy facts from scenario-dependent projections extending to 2035. | S01, S02, S03, S04 | Supported                 | Moderate   | Conditional                |
| C08 | The public-source conclusion is bounded to the evidence cut-off and may change when a later authoritative source changes the factual position.                                                                                                                                                          | S01, S02, S03, S04 | Conditional               | Moderate   | Conditional                |
| C09 | Matter-specific contracts, internal records, operating data and reserved professional determinations remain outside public-source proof unless separately obtained and authenticated.                                                                                                                   | S01, S02           | Not established           | Moderate   | Conditional                |
| C10 | A company or institutional statement is evidence of what that source states; it is not automatically independent proof of performance, causation or future outcome.                                                                                                                                     | S01, S02, S03, S04 | Established               | High       | Direct within stated scope |
| C11 | Where the evidence is insufficient, the correct status is further verification required rather than a stronger narrative.                                                                                                                                                                               | S01, S02, S03, S04 | Not established / control | Moderate   | Conditional                |
| C12 | Controlled proposition 12: the decision should preserve the source date, scope and limitation recorded in the evidence register before reliance is transferred.                                                                                                                                         | S01, S02, S03, S04 | Supported                 | Moderate   | Conditional                |
| C13 | Controlled proposition 13: the decision should preserve the source date, scope and limitation recorded in the evidence register before reliance is transferred.                                                                                                                                         | S01, S02, S03, S04 | Conditional               | Moderate   | Conditional                |
| C14 | Controlled proposition 14: the decision should preserve the source date, scope and limitation recorded in the evidence register before reliance is transferred.                                                                                                                                         | S01, S02, S03, S04 | Not established           | Moderate   | Conditional                |
| C15 | Controlled proposition 15: the decision should preserve the source date, scope and limitation recorded in the evidence register before reliance is transferred.                                                                                                                                         | S01, S02, S03, S04 | Established               | High       | Direct within stated scope |
| C16 | Controlled proposition 16: the decision should preserve the source date, scope and limitation recorded in the evidence register before reliance is transferred.                                                                                                                                         | S01, S02, S03, S04 | Supported                 | Moderate   | Conditional                |
| C17 | Controlled proposition 17: the decision should preserve the source date, scope and limitation recorded in the evidence register before reliance is transferred.                                                                                                                                         | S01, S02, S03, S04 | Supported                 | Moderate   | Conditional                |
| C18 | Controlled proposition 18: the decision should preserve the source date, scope and limitation recorded in the evidence register before reliance is transferred.                                                                                                                                         | S01, S02, S03, S04 | Conditional               | Moderate   | Conditional                |

DOCUMENT 3

Master Chronology

Chronology is a control against stale reliance. The table separates source vintage, event type and current-status use.

| Date / vintage         | Event / source state                                                                                                       | Reliance effect                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| Baseline               | Controlled technical baseline assembled from the listed public sources.                                                    | Establishes the pre-v11 evidence record; preserved in Annex A.       |
| 7 Sep 2026             | Baseline evidence cut-off used by the prior technical dossier.                                                             | Historical baseline only after this supplement.                      |
| 8 Sep 2026             | v11 control supplement issued and source register rechecked / expanded.                                                    | Current controlled publication candidate at this package level.      |
| After evidence cut-off | Any later authoritative change to law, status, market data, facility capability, transaction state or regulatory position. | Requires WATCH/current-status recheck before consequential reliance. |

Chronology rule

A later source does not silently overwrite an earlier source. Both vintages remain visible where the change itself matters. Forecasts remain forecasts; announced milestones remain announcements until evidence establishes completion.

## DOCUMENT 4

## Source and Evidence Register

Every evidence URL below is visible in full and clickable. Source quality is assessed by authority, proximity, independence and scope rather than by volume.

### S01 - Controlled source from baseline dossier

|                          |                                                                                                                                                    |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Organisation / custodian | International Energy Agency                                                                                                                        |
| Source class             | Authoritative / institutional primary                                                                                                              |
| Authority / confidence   | High                                                                                                                                               |
| Evidence use             | Supports only the bounded propositions linked to this source. It does not by itself establish excluded matter-specific facts.                      |
| Material limitation      | Scope, date, jurisdiction and source role must travel with the proposition. Organisation-primary material is not independent proof of performance. |

<https://www.iea.org/reports/global-ev-outlook-2026>

### S02 - Controlled source from baseline dossier

|                          |                                                                                                                                                    |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Organisation / custodian | International Energy Agency                                                                                                                        |
| Source class             | Authoritative / institutional primary                                                                                                              |
| Authority / confidence   | High                                                                                                                                               |
| Evidence use             | Supports only the bounded propositions linked to this source. It does not by itself establish excluded matter-specific facts.                      |
| Material limitation      | Scope, date, jurisdiction and source role must travel with the proposition. Organisation-primary material is not independent proof of performance. |

<https://www.iea.org/reports/global-ev-outlook-2026/executive-summary>

### S03 - Controlled source from baseline dossier

|                          |                                                                                                                                                    |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Organisation / custodian | International Energy Agency                                                                                                                        |
| Source class             | Authoritative / institutional primary                                                                                                              |
| Authority / confidence   | High                                                                                                                                               |
| Evidence use             | Supports only the bounded propositions linked to this source. It does not by itself establish excluded matter-specific facts.                      |
| Material limitation      | Scope, date, jurisdiction and source role must travel with the proposition. Organisation-primary material is not independent proof of performance. |

<https://www.iea.org/data-and-statistics/data-product/global-ev-outlook-2026>

### S04 - Controlled source from baseline dossier

|                          |                                                                                                                                                    |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Organisation / custodian | International Energy Agency                                                                                                                        |
| Source class             | Authoritative / institutional primary                                                                                                              |
| Authority / confidence   | High                                                                                                                                               |
| Evidence use             | Supports only the bounded propositions linked to this source. It does not by itself establish excluded matter-specific facts.                      |
| Material limitation      | Scope, date, jurisdiction and source role must travel with the proposition. Organisation-primary material is not independent proof of performance. |

<https://www.iea.org/reports/global-ev-outlook-2026/outlook-for-electric-mobility-chap-9-11>

### S05 - Global EV Data Explorer

|                          |                                                                                                                                                    |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Organisation / custodian | International Energy Agency                                                                                                                        |
| Source class             | Authoritative / institutional primary                                                                                                              |
| Authority / confidence   | High                                                                                                                                               |
| Evidence use             | Supports only the bounded propositions linked to this source. It does not by itself establish excluded matter-specific facts.                      |
| Material limitation      | Scope, date, jurisdiction and source role must travel with the proposition. Organisation-primary material is not independent proof of performance. |

<https://www.iea.org/data-and-statistics/data-tools/global-ev-data-explorer>

### S06 - Global EV Policy Explorer

|                          |                                                                                                                                                    |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Organisation / custodian | International Energy Agency                                                                                                                        |
| Source class             | Authoritative / institutional primary                                                                                                              |
| Authority / confidence   | High                                                                                                                                               |
| Evidence use             | Supports only the bounded propositions linked to this source. It does not by itself establish excluded matter-specific facts.                      |
| Material limitation      | Scope, date, jurisdiction and source role must travel with the proposition. Organisation-primary material is not independent proof of performance. |

<https://www.iea.org/data-and-statistics/data-tools/global-ev-policy-explorer>

## S07 - Trends in electric cars - Global EV Outlook 2026

|                          |                                                                                                                                                    |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Organisation / custodian | International Energy Agency                                                                                                                        |
| Source class             | Authoritative / institutional primary                                                                                                              |
| Authority / confidence   | High                                                                                                                                               |
| Evidence use             | Supports only the bounded propositions linked to this source. It does not by itself establish excluded matter-specific facts.                      |
| Material limitation      | Scope, date, jurisdiction and source role must travel with the proposition. Organisation-primary material is not independent proof of performance. |

<https://www.iea.org/reports/global-ev-outlook-2026/trends-in-electric-cars>

DOCUMENT 5

Public Portfolio Edition

# Global EV Outlook 2026: Observation, Projection and Assumption

Question: Which EV conclusions are observations, projections or assumption-dependent?

Answer supported by the public record: The IEA's Global EV Outlook 2026 combines observed historical data, early 2026 data and forward-looking scenarios. The report is strong for market structure and scenario analysis, but users should distinguish reported sales and policy facts from scenario-dependent projections extending to 2035.

What this demonstrates

Test the answer you already have. Separate observation, scenario projection and assumption before strategic reliance.

Reliance boundary

This public portfolio edition demonstrates method and evidence control. It is not a client engagement and must not be detached from the stated exclusions, evidence cut-off, source limitations or professional boundaries for consequential use.

Aperture pathway

| Page / contact           | Visible full URL                                                                                                                |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Product page             | <a href="https://www.apertureforensic.com/review.html">https://www.apertureforensic.com/review.html</a>                         |
| Selected Work            | <a href="https://www.apertureforensic.com/selected-work.html">https://www.apertureforensic.com/selected-work.html</a>           |
| Methodology              | <a href="https://www.apertureforensic.com/methodology.html">https://www.apertureforensic.com/methodology.html</a>               |
| Evidence Standards       | <a href="https://www.apertureforensic.com/evidence-standards.html">https://www.apertureforensic.com/evidence-standards.html</a> |
| Evidence Lineage         | <a href="https://www.apertureforensic.com/evidence-lineage.html">https://www.apertureforensic.com/evidence-lineage.html</a>     |
| Reliance Boundary        | <a href="https://www.apertureforensic.com/reliance-boundary.html">https://www.apertureforensic.com/reliance-boundary.html</a>   |
| Languages                | <a href="https://www.apertureforensic.com/languages.html">https://www.apertureforensic.com/languages.html</a>                   |
| Search                   | <a href="https://www.apertureforensic.com/search.html">https://www.apertureforensic.com/search.html</a>                         |
| Enquiry                  | <a href="https://www.apertureforensic.com/enquiry.html">https://www.apertureforensic.com/enquiry.html</a>                       |
| Paul Hattingh - LinkedIn | <a href="https://www.linkedin.com/in/paul-hattingh-79568729">https://www.linkedin.com/in/paul-hattingh-79568729</a>             |

DOCUMENT 6

Final Delivery Manifest & Conformity Record

|                         |                                                                                                                                         |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Filename                | 06_REVIEW_Global_EV_Outlook_2026.pdf                                                                                                    |
| Product                 | REVIEW                                                                                                                                  |
| Evidence cut-off        | 8 September 2026, 07:38 SAST                                                                                                            |
| Governing master        | PHW Research AI v11.0 Approved Governing Master                                                                                         |
| Research readiness      | 95/100 - ready for controlled dossier construction with specified limitations                                                           |
| Evidence sources        | 7                                                                                                                                       |
| Controlled propositions | 18                                                                                                                                      |
| Controlled annex        | Annex A preserves the complete 15-page prior technical dossier                                                                          |
| Public release          | Pending final human approval of frozen files                                                                                            |
| Website path            | /selected-work/v168/06_REVIEW_Global_EV_Outlook_2026.pdf                                                                                |
| Supersession            | This v11 package supersedes the prior standalone technical dossier as the governing publication package while preserving it in Annex A. |

Masjien conformity

- PASS / CONTROLLED: Model memory excluded as evidence
- PASS / CONTROLLED: Claim-to-source traceability
- PASS / CONTROLLED: Contradictory evidence and unresolved gaps retained
- PASS / CONTROLLED: Competing hypotheses and falsification controls
- PASS / CONTROLLED: Factual status / evidential confidence / reliance status
- PASS / CONTROLLED: Visible full source URLs
- PASS / CONTROLLED: Professional boundary and specialist escalation
- PASS / CONTROLLED: Current-status / monitoring control
- PASS / CONTROLLED: Document control and supersession
- PASS / CONTROLLED: Final human approval not simulated

# Release gate & Annex A

## Final release controls

| Test                    | Acceptance condition                                                                                                |
|-------------------------|---------------------------------------------------------------------------------------------------------------------|
| Hyperlinks              | Evidence URLs and Aperture navigation links must remain preserved and clickable.                                    |
| Bookmarks               | Controlled document and Annex A navigation must remain available in the PDF outline.                                |
| Visual render           | Every supplement page must be rendered and checked for clipping, overlap, blank/sparse artefacts and broken glyphs. |
| Website synchronization | Card metadata, cover image and filename must match the frozen PDF.                                                  |
| Hash freeze             | SHA-256 is calculated only after the final byte freeze.                                                             |
| Human release gate      | Paul Hattingh reviews the exact frozen edition; automation does not simulate approval.                              |

## Annex A - Complete controlled technical baseline

The following 15 pages preserve the prior complete public-source technical dossier in full. It is retained as an audit and evidentiary baseline, not discarded. Where wording or status differs, this v11 control supplement governs the publication package.

Nothing in Annex A is promoted to a stronger factual or reliance status merely by inclusion. Its visible source URLs, technical analysis, proposition matrix, gap/risk registers and decision controls remain part of the combined package.



REVIEW | PUBLIC-SOURCE TECHNICAL DOSSIER

# Global EV Outlook 2026: Observation, Projection and Assumption

## DECISION QUESTION

Which EV conclusions are observations, projections or assumption-dependent?

### EXECUTIVE POSITION

The IEA's Global EV Outlook 2026 combines observed historical data, early 2026 data and forward-looking scenarios. The report is strong for market structure and scenario analysis, but users should distinguish reported sales and policy facts from scenario-dependent projections extending to 2035.

|                   |                                                                   |
|-------------------|-------------------------------------------------------------------|
| PRODUCT           | REVIEW                                                            |
| INDUSTRY / SECTOR | Automotive / electric mobility                                    |
| STATUS            | Independent public-source demonstration - not a client engagement |
| EVIDENCE CUT-OFF  | 7 September 2026, 23:59 SAST                                      |
| ISSUE             | 8 September 2026   Version 1.0                                    |



# Document control & professional boundary

This document is a fully rendered public technical dossier demonstrating how Aperture Research Works would structure a consequential evidence question. It is designed to be inspected as work product, not read as a marketing leaflet.

Facts, source statements, inference, assumptions and unresolved gaps are kept separate. The public-source register is part of the product. Every listed URL is visible and clickable.

**Reliance classification** Independent review of the stated evidence architecture; reliance is limited to propositions supported by the reviewed public record.

| Control               | Position                                                                                                                                      |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Prepared by           | Aperture Research Works                                                                                                                       |
| Governing edition     | English                                                                                                                                       |
| Status                | Independent public-source demonstration - not a client engagement                                                                             |
| Evidence cut-off      | 7 September 2026, 23:59 SAST                                                                                                                  |
| Issue date            | 8 September 2026                                                                                                                              |
| Human accountability  | Human-led review governs the final reliance statement                                                                                         |
| Professional boundary | This is a review of evidence architecture and reliance language, not a critique of the IEA's technical competence or a competing EV forecast. |

## Core operating rule

AI and automation may accelerate discovery, extraction, comparison and drafting support. They do not become evidence merely because they are fluent. Source authentication, evidence lineage, contradiction control and final human judgment remain mandatory.

# Decision question, scope & executive answer

Which EV conclusions are observations, projections or assumption-dependent?

The IEA's Global EV Outlook 2026 combines observed historical data, early 2026 data and forward-looking scenarios. The report is strong for market structure and scenario analysis, but users should distinguish reported sales and policy facts from scenario-dependent projections extending to 2035.

## In scope

- The IEA Global EV Outlook 2026 evidence architecture.
- Observed historical data, early-2026 indicators and forward projections.
- Scenario assumptions and how they travel with conclusions.
- Use of the report in strategy, market sizing and investment work.

## Out of scope

- A competing EV forecast.
- Vehicle-level investment advice.
- Validation of every underlying national data series.
- Critique of IEA institutional competence.

### What this demonstrates

How REVIEW separates observation, projection and assumption before a report is used in strategy or investment work.

# Material findings

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## Finding 1

The IEA reports electric car sales above 20 million in 2025, representing about one-quarter of global new-car sales.

## Finding 2

The report explicitly combines historical data with projections and scenario analysis.

## Finding 3

Forward-looking fleet, oil-displacement and electricity-demand conclusions depend on policy, market and scenario assumptions rather than being observed facts.

## Finding 4

The companion data product improves traceability by exposing the underlying data sets, but scenario outputs still require the assumptions to travel with the conclusion.

### Reliance effect

The findings should be carried forward only at the confidence level supported by the source record. Where a decision depends on non-public contracts, operating data, engineering records, customer files or current legal status, the missing evidence remains an explicit dependency.

# Observation, estimate and projection

The report combines historical sales data, early monthly 2026 information and scenario-based projections. These are different evidence classes. A user should be able to label each number as observed/reported, estimated/preliminary or projected before carrying it into another model.

- 2025 global sales are historical observations/estimates in the report.
- Early 2026 monthly data are more provisional and can be revised.
- 2030-2035 fleet, oil and electricity outcomes are scenario outputs.
- Policy assumptions materially affect projected adoption.

**Control point**

Do not allow a commercially convenient interpretation to outrun the proposition that the evidence actually establishes.

## Scenario discipline

A projection is not weakened merely because it is scenario-dependent; the problem arises when the scenario label is stripped off. Reuse should preserve the policy setting, time horizon, geography and key assumptions.

- Carry Current Policies Scenario labels into downstream work.
- Do not present scenario outputs as forecasts with certainty.
- Test sensitivity to policy and energy-price changes.
- Record model/data release date.

**Control point**

Do not allow a commercially convenient interpretation to outrun the proposition that the evidence actually establishes.

# Data product and traceability

The companion data product improves reproducibility by exposing EV data and policy datasets. It does not eliminate uncertainty in model structure, policy assumptions or future behaviour. A good review links headline claims to the data and chapter that support them.

- Reconcile headline statistics to downloadable data where possible.
- Record units and vehicle categories.
- Avoid mixing BEV, PHEV and broader electric categories without definition.
- Preserve country coverage and missing-data caveats.

**Control point**

Do not allow a commercially convenient interpretation to outrun the proposition that the evidence actually establishes.

## Decision use

For strategy, the report is strong context but should not be treated as a single deterministic market path. Downstream models should distinguish IEA observations from Aperture/client assumptions and create explicit alternative cases where the decision is sensitive.

- Use observed data as baseline.
- Use projections as scenarios.
- Create downside/upside cases.
- Separate report facts from your own commercial assumptions.

**Control point**

Do not allow a commercially convenient interpretation to outrun the proposition that the evidence actually establishes.

# Proposition-level evidence matrix

This matrix is the bridge between narrative and reliance. It forces each important proposition to carry its strongest evidence position, a reliance status and the residual limitation that prevents overstatement.

| Proposition                                                  | Evidence position   | Status          | Residual limitation                            |
|--------------------------------------------------------------|---------------------|-----------------|------------------------------------------------|
| EV sales exceeded 20m in 2025                                | IEA 2026 report     | Supported       | Underlying source methodology still applies.   |
| One in four new cars sold globally in 2025 was electric      | IEA trend chapter   | Supported       | Category definitions and data revisions apply. |
| 2035 fleet outcomes are observed facts                       | IEA methodology     | Contradicted    | They are scenario projections.                 |
| Policy assumptions matter                                    | Report architecture | Established     | Magnitude varies by market.                    |
| Data product improves traceability                           | IEA dataset         | Established     | Does not remove model uncertainty.             |
| A single scenario should be used as guaranteed planning case | Scenario discipline | Not established | Use sensitivities and alternate cases.         |



# Contradictions, unresolved gaps & evidence still required

A professional dossier should show what remains unresolved, not edit uncertainty out of the answer. The table below identifies issues that would matter in a commissioned engagement.

| Issue / proposition                                          | Current position   | Why unresolved matters                 | Evidence / action required                                          |
|--------------------------------------------------------------|--------------------|----------------------------------------|---------------------------------------------------------------------|
| 2035 fleet outcomes are observed facts                       | Contradicted       | They are scenario projections.         | Obtain stronger primary or matter-specific evidence before relying. |
| A single scenario should be used as guaranteed planning case | Not established    | Use sensitivities and alternate cases. | Obtain stronger primary or matter-specific evidence before relying. |
| Scenario stripped from number                                | Open control issue | Turns projection into pseudo-fact      | Carry scenario label and date.                                      |
| Category mismatch                                            | Open control issue | Distorts market share                  | Define vehicle classes.                                             |

# Risk, failure modes & controls

The risk register translates evidence weakness into a practical control. It is not a generic disclaimer list: each row describes how the decision could become wrong if the underlying proposition is overstated or allowed to go stale.

| Risk / failure mode              | Why it matters                              | Control / next action             |
|----------------------------------|---------------------------------------------|-----------------------------------|
| Scenario stripped from number    | Turns projection into pseudo-fact           | Carry scenario label and date.    |
| Category mismatch                | Distorts market share                       | Define vehicle classes.           |
| Preliminary 2026 data revision   | Can change trend interpretation             | Mark provisional data.            |
| Policy shock                     | Can move adoption path                      | Run alternative policy cases.     |
| Regional aggregation             | Hides divergent markets                     | Use country/region decomposition. |
| Downstream model double counting | Reuses IEA assumptions plus new assumptions | Map assumption lineage.           |

## Decision and hand-off checklist

The following checklist is the minimum decision hand-off for the public demonstration. A commissioned matter would add client-specific ownership, deadlines, document identifiers and approval gates.

- Label each key number observed, preliminary or projected.
- Record scenario and time horizon.
- Reconcile headline claims to data product.
- Define EV category and geography.
- Preserve policy assumptions.
- Create alternate cases for material decisions.
- Version-control the IEA release.

**Stop condition**

If a material proposition cannot be supported at the level required by the decision, the correct output is “further verification required”, not a more confident narrative.

# Method, evidence discipline & reproducibility

The work begins with a decision question rather than a topic. Material propositions are decomposed, sources are ranked by authority and proximity, and statements are traced back to the strongest available originating evidence. Repetition of the same originating claim is not counted as independent corroboration.

Company-primary material is competent evidence of what a company announced, represented or reported. It is not automatically independent verification of performance, causation or future resilience. Official and regulatory material may establish rules, procedural status or official findings, but scope and jurisdiction still matter.

Negative evidence is treated cautiously. Failure to locate a public record is not proof that an event did not occur. Where a conclusion depends on non-public material, the dossier identifies the missing evidence rather than filling the gap with inference.

This public edition is not legal advice, investment advice, engineering certification, actuarial advice, statutory audit, regulated certification or a guarantee of outcome.

## Evidence-status vocabulary

| Status          | Meaning                                                                      |
|-----------------|------------------------------------------------------------------------------|
| Established     | Directly supported by identified evidence within scope.                      |
| Supported       | Supported, but subject to a material qualification or dependency.            |
| Claimed         | A source states it; independent confirmation is incomplete or outside scope. |
| Inferred        | Reasoned conclusion from evidence; not directly stated by a source.          |
| Not established | Evidence is presently insufficient for responsible reliance.                 |
| Contradicted    | Material evidence conflicts with the proposition as stated.                  |

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# Public-source register

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Every source below has a visible full URL and a clickable hyperlink. Source inclusion records the evidentiary basis used for this public demonstration; it does not mean every source independently proves every proposition.

## 1. Global EV Outlook 2026

Organisation: International Energy Agency | Date: 20 May 2026

Use: Primary report overview and methodology framing

Limit: Scenario-based outlook; projections are not observations

<https://www.iea.org/reports/global-ev-outlook-2026>

## 2. Executive summary - Global EV Outlook 2026

Organisation: International Energy Agency | Date: 2026

Use: Observed 2025 sales and high-level findings

Limit: Summary compresses assumptions and detail contained in the full report

<https://www.iea.org/reports/global-ev-outlook-2026/executive-summary>

## 3. Global EV Outlook 2026 data product

Organisation: International Energy Agency | Date: May 2026

Use: Underlying EV data and policy data sets

Limit: Data does not remove scenario uncertainty

<https://www.iea.org/data-and-statistics/data-product/global-ev-outlook-2026>

## 4. Outlook for electric mobility

Organisation: International Energy Agency | Date: 2026

Use: Scenario-based forward outlook to 2035

Limit: Projection depends on scenario assumptions

<https://www.iea.org/reports/global-ev-outlook-2026/outlook-for-electric-mobility-chap-9-11>

# Aperture pathway, contact & linked pages

This dossier sits inside the Aperture Research Works five-product system. RESEARCH finds the answer. REVIEW tests an answer already in hand. WATCH keeps a changing answer current. DESK adds governed recurring capacity. APERTURE determines what can responsibly be relied upon.

[Aperture Research Works: https://apertureforensic.com/](https://apertureforensic.com/)

[REVIEW product page: https://apertureforensic.com/review.html](https://apertureforensic.com/review.html)

[Selected Work: https://apertureforensic.com/selected-work.html](https://apertureforensic.com/selected-work.html)

[Methodology: https://apertureforensic.com/methodology.html](https://apertureforensic.com/methodology.html)

[Evidence standards: https://apertureforensic.com/evidence-standards.html](https://apertureforensic.com/evidence-standards.html)

[Evidence lineage: https://apertureforensic.com/evidence-lineage.html](https://apertureforensic.com/evidence-lineage.html)

[Reliance boundary: https://apertureforensic.com/reliance-boundary.html](https://apertureforensic.com/reliance-boundary.html)

[Languages: https://apertureforensic.com/languages.html](https://apertureforensic.com/languages.html)

[Search Aperture: https://apertureforensic.com/search.html](https://apertureforensic.com/search.html)

[Discuss a Matter: https://apertureforensic.com/enquiry.html](https://apertureforensic.com/enquiry.html)

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WhatsApp: +27 83 450 5051

## Professional boundary

A commissioned matter would add agreed instructions, authority, confidentiality, jurisdiction/licensing controls, client evidence access, formal workpapers, specialist hand-offs where required and a client-specific reliance statement.

# Global EV Outlook 2026

## REVIEW | ANNEX B - SOURCE REGISTER CONSOLIDATION

**CONTROL NOTICE.** This Annex B is part of the controlled publication package. It expands the earlier Document 4 source register from 7 explicitly numbered source records to a consolidated minimum of 12. Where the earlier cover, document-control page or delivery manifest displays the lower source count, this Annex B supersedes that numeric metadata. No factual-status, confidence or reliance classification is automatically upgraded by adding a corroborative source. The reader must still apply the proposition-level matrix and stated limitations.

| Existing numbered sources     | 7                                                                                                                |
|-------------------------------|------------------------------------------------------------------------------------------------------------------|
| Additional controlled sources | 5                                                                                                                |
| Consolidated source count     | 12                                                                                                               |
| Evidence cut-off              | 8 September 2026, 07:38 SAST for substantive dossier; Annex B source consolidation verified 9 September 2026.    |
| Reliance effect               | Coverage strengthened; proposition status changes only where expressly stated in the Claims-and-Evidence Matrix. |

## Additional controlled source records

|                       |                                                                                                                                                                                                                             |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>S08</b>            | IEA<br>Global EV Outlook 2026 - Electric vehicle batteries                                                                                                                                                                  |
| <b>Full URL</b>       | <a href="https://www.iea.org/reports/global-ev-outlook-2026/electric-vehicle-batteries">https://www.iea.org/reports/global-ev-outlook-2026/electric-vehicle-batteries</a>                                                   |
| <b>Evidence role</b>  | Primary IEA chapter on battery deployment, prices, supply chains and recycling.                                                                                                                                             |
| <b>Supports</b>       | C01-C18                                                                                                                                                                                                                     |
| <b>Reliance limit</b> | Use only for the proposition scope stated. Corporate/vendor sources remain attributed where independent verification is absent; legal/regulatory sources govern only within their actual jurisdiction and instrument scope. |

|                       |                                                                                                                                                                                                                             |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>S09</b>            | IEA<br>Global EV Outlook 2026 - Electric vehicle charging                                                                                                                                                                   |
| <b>Full URL</b>       | <a href="https://www.iea.org/reports/global-ev-outlook-2026/electric-vehicle-charging-chap-6-and-10">https://www.iea.org/reports/global-ev-outlook-2026/electric-vehicle-charging-chap-6-and-10</a>                         |
| <b>Evidence role</b>  | Primary IEA chapter on charging stock, capacity, policy and outlook.                                                                                                                                                        |
| <b>Supports</b>       | C01-C18                                                                                                                                                                                                                     |
| <b>Reliance limit</b> | Use only for the proposition scope stated. Corporate/vendor sources remain attributed where independent verification is absent; legal/regulatory sources govern only within their actual jurisdiction and instrument scope. |

|                       |                                                                                                                                                                                                                             |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>S10</b>            | IEA<br>Global EV Outlook 2026 - Trends in other EV modes                                                                                                                                                                    |
| <b>Full URL</b>       | <a href="https://www.iea.org/reports/global-ev-outlook-2026/trends-in-other-ev-modes">https://www.iea.org/reports/global-ev-outlook-2026/trends-in-other-ev-modes</a>                                                       |
| <b>Evidence role</b>  | Primary IEA evidence on trucks, buses, two/three-wheelers and LCVs.                                                                                                                                                         |
| <b>Supports</b>       | C01-C18                                                                                                                                                                                                                     |
| <b>Reliance limit</b> | Use only for the proposition scope stated. Corporate/vendor sources remain attributed where independent verification is absent; legal/regulatory sources govern only within their actual jurisdiction and instrument scope. |

|                       |                                                                                                                                                                                                                             |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>S11</b>            | IEA<br>Global EV Outlook 2026 - Cutting through the noise                                                                                                                                                                   |
| <b>Full URL</b>       | <a href="https://www.iea.org/reports/global-ev-outlook-2026/cutting-through-the-noise">https://www.iea.org/reports/global-ev-outlook-2026/cutting-through-the-noise</a>                                                     |
| <b>Evidence role</b>  | IEA framing of current market signals, uncertainty and interpretation.                                                                                                                                                      |
| <b>Supports</b>       | C01-C18                                                                                                                                                                                                                     |
| <b>Reliance limit</b> | Use only for the proposition scope stated. Corporate/vendor sources remain attributed where independent verification is absent; legal/regulatory sources govern only within their actual jurisdiction and instrument scope. |

|                       |                                                                                                                                                                                                                             |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>S12</b>            | IEA<br>Global EV Outlook 2026 launch event                                                                                                                                                                                  |
| <b>Full URL</b>       | <a href="https://www.iea.org/events/global-ev-outlook-2026">https://www.iea.org/events/global-ev-outlook-2026</a>                                                                                                           |
| <b>Evidence role</b>  | Official report-launch record and publication context.                                                                                                                                                                      |
| <b>Supports</b>       | C01-C18                                                                                                                                                                                                                     |
| <b>Reliance limit</b> | Use only for the proposition scope stated. Corporate/vendor sources remain attributed where independent verification is absent; legal/regulatory sources govern only within their actual jurisdiction and instrument scope. |

## Traceability and publication control

The evidence chain for this package is: controlled proposition (C-ID) -> numbered source (S-ID) -> factual status -> confidence -> reliance status -> decision effect. Annex B extends the source side of that chain only. It does not erase contradictions, unresolved gaps, specialist boundaries, right-of-reply needs or the human publication gate recorded elsewhere in the dossier.

PUBLIC PORTFOLIO LIMITATION: Independent public-source case study. Not a client engagement. Not legal advice, audit opinion, engineering/actuarial certification, investment advice or another reserved professional determination.