# SECO - Input Catalog and Data-Collection Template v1.4.0

Generic case-population reference

## 1. Input-entry sequence

| Order | Family | Typical inputs | Minimum check |
|---|---|---|---|
| 1 | Case / scenario controls | Mode, active scenario, horizon | Allowed values; no orphan overrides |
| 2 | Timing | Decision date, preconstruction, construction, tool install, qualification, HVM | Chronology and feasible durations |
| 3 | Capacity / utilization / yield | Installed capacity, ramps, utilization, EYI | 0..1 fractions; phase-age parity where required |
| 4 | Revenue | ASP, location premium, revenue lag, maturity controls | No revenue before eligible output |
| 5 | Physical CapEx | Building, process infrastructure, equipment, campus/shared | Nonnegative; monthly schedule sums |
| 6 | OpEx | Labor, materials, electricity, water, maintenance, overhead | Quantity x price consistency |
| 7 | Lifecycle / tax | Lives, replacement, PIS, tax depreciation, expensing | No depreciation beyond allowable basis |
| 8 | Policy | Eligibility, rates, caps, grants, 48D qualified share | Separate statutory rule from case-specific asset eligibility |
| 9 | Evidence | Source, date, grade, rationale | Every material assumption traceable |

## 2. v1.4 new required/optional inputs

| Variable | Instances | Generic default | User guidance |
|---|---|---|---|
| POL-031 48D Eligible CapEx Ratio | A/B x Building/Process Infra/Equipment/Campus | 0.95 / 0.95 / 1.00 / 0.90 | Case-specific asset eligibility; document tax/property basis |
| TAX-017 Bonus / Immediate Expensing Fraction | A/B x 4 asset categories | 0 | Use only when tax law/case treatment supports it |
| REV-010 ASP Mature Multiplier | P1-P10 | 1.0 | Case-specific mature phase-age ASP adjustment |
| REV-011 ASP Transition Month | P1-P10 | 0 | Month when mature multiplier begins |

## 3. OPEN / zero discipline

Blank/OPEN means unresolved, not supplied, or not applicable under the current configuration. Numeric zero is an explicit economic assumption. Do not replace OPEN with zero merely to suppress a warning.

## 4. Data-collection fields

| Field | What to record |
|---|---|
| Variable ID | Use governed SECO-VAR-* identifier |
| Location / Phase / Asset | Exact grain of assumption |
| Base value / path | Numeric value or OPEN |
| Unit | Currency, fraction, months, WSPM, etc. |
| Source / URL | Primary source when possible |
| Source date | Publication or effective date |
| Evidence grade | User / public / derived / calibrated / expert interview / OPEN |
| Rationale | Why value is appropriate |
| Scenario range | Reasonable sensitivity or stress bounds |