# EM Explorer Track – Roadmap and Development Tracker (v0.4+)

**Track Purpose:** Cross-platform EM simulation viewer, QA/QC engine, and model translator. Originally developed as a CBECC-to-IESVE converter.

## ✅ Current Version: v0.4\_2025-07-08

### 📁 Folder Structure:

EM\_Explorer\_Track/  
├── v0.4\_2025-07-08/  
│ ├── scripts/  
│ ├── mappings/  
│ ├── templates/  
│ ├── outputs/  
│ ├── run\_tests\_em\_explorer.py  
│ ├── run\_tests\_geometry\_mapper.py  
│ ├── run\_tests\_manualj\_viewer.py  
│ └── dropbox\_upload\_manifest.json

## 🔨 Active Modules Under Development

### 1. QA/QC Heatmap Tool ✅

* Status: Complete
* Outputs: .csv, .png, .xlsx
* Integrated into manifest

### 2. Geometry Mapper

* Input: ab.xml, ap.xml
* Output: IES-ready CSV or IDF geometry
* Status: Parser stable, export WIP

### 3. HVAC Explorer

* Input: ab.xml/ap.xml
* Output: Tabular HVAC summaries, zoning map
* Status: Summary logic done; visualization pending

### 4. Manual J Viewer

* Input: HourlyResults.csv
* Output: Loads by Zone, Floor, Type
* Status: Core logic tested; Excel export next

### 5. EUI / GHG Viewer

* Input: HourlyResults.csv, eplusout.csv
* Output: EUI by use/zone, GHG overlay
* Status: Pandas engine stable; chart visuals pending

### 6. Assembly + System Mapper

* File: cbecc\_to\_iesve.json
* Status: JSON ruleset complete; shared with other tracks

### 7. QA/QC XLSX Export Tool

* Output: Multi-tab QA report
* Status: Template ready; logic 75% complete

### 8. IDF Exporter / Translator

* Shared module from EnergyPlus Track
* Status: Awaiting integration from shared folder

## 🛠️ Planned Enhancements

## 🗂 Version Roadmap

### v0.4 (Current)

* Scaffold full track modules
* Automate manifest uploads
* Develop core viewers and mappers

### v0.5 (Upcoming)

* Finalize XLSX QA report
* Integrate EUI + GHG dashboards
* IDF export stable and shared with EnergyPlus track

### v0.6+

* Add batch processing mode
* Visual QA GUI
* Output comparison against compliance models (CBECC, EnergyPlus)

## 📦 Test Data + Archives

* v0.1\_Extras/ contains legacy inputs and outputs
* Test coverage includes geometry + manualj viewers
* All uploads tracked via manifest

## 📍 Ownership

**Current Owner:** EM Tools GitHub + Dropbox automated account (this thread) **Former Owner:** Archived in secondary ChatGPT account

✅ Ready for continued modular development.