NetEdison™

OPEN ENERGY ECOLOGY

DESIGN DOCUMENT

NetEdison Community Registry

Design & Tier Structure

Community Registry Design v1.0

April 2026

Prepared by NetEdison · BWX INC · registry.netedison.com

1. Introduction

The **NetEdison Community Registry** is the authoritative directory of individuals and organizations participating in the NetEdison open energy ecology. It functions as the entry point into the ecosystem — the structured front door through which contributors, deployers, and partners declare their intent to engage with the project.

Four distinct communities are recognized, each with a tailored field schema and dedicated view in the admin panel: **Coders** who build and extend the EROS software stack, **Engineers** who design and deploy NetEdison hardware, **Users** who operate or commission NetEdison infrastructure in the field, and **Investors** who provide capital to fund development, manufacturing, and deployment of the open energy standard.

Role in the ecosystem

The registry serves four functions simultaneously: (1) a self-service onboarding channel for the community, (2) a triage queue for the NetEdison core team, (3) the source-of-truth for affiliate-status tagging that feeds the public Fork Registry, and (4) the data-source behind the public community directory embedded on netedison.com.

Platform choice

The registry is built on **NocoDB**, an open-source, self-hosted no-code database platform backed by SQLite. NocoDB was chosen for alignment with NetEdison's open-source philosophy: no vendor lock-in, no licensing cost, and full data sovereignty. The instance runs on BWX INC infrastructure at **registry.netedison.com**, ensuring registrant data never leaves trusted hardware.

2. Master Table Schema

All registrants share a common base record. Persona-specific fields extend this base depending on whether the registrant identifies as a Coder, Engineer, or User. The base fields capture identity, contact, geography, governance flags, and provenance.

Base Fields (all personas)

Field	Type	Notes
ID	Auto-number	Primary key
Full Name	Text	Required
Email	Email	Required, unique
Organization	Text	Company, university, or individual
Country	Text	ISO country name
Region / State	Text	Optional
Persona Type	Single select	Coder / Engineer / User / Investor
Registration Date	Date	Auto-set on submission
Status	Single select	Pending / Active / Verified / Inactive
Public Directory Opt-in	Checkbox	Controls visibility in public view
Newsletter Opt-in	Checkbox	For EP / EROS release announcements
Message / Notes	Long text	Free-form registration note
Source	Single select	Website / GitHub / Referral / Event

3. Persona Schemas

Each persona extends the base record with fields relevant to its community. These fields drive the persona-specific views, public-directory summaries, and downstream affiliate-tier eligibility logic.

3.1 Coders

Software contributors building and extending the EROS stack, HAL, ENMS Agent, CLI tooling, and supporting infrastructure.

Field	Type	Notes
GitHub Username	Text	Links to contributor profile
Primary Languages	Multi-select	Rust / C / Go / Python / JavaScript / VHDL / Other
EROS Focus Areas	Multi-select	EP Stack / HAL / ENMS Agent / CLI / Testing / Documentation
Availability	Single select	Full-time / Part-time / Volunteer / Advisory
Fork Interest	Checkbox	Wants to run a named NetEdison fork
Affiliate Tier Interest	Single select	Labs / Country / Curriculum / Certified / None
Prior Open Source	Text	Notable prior contributions

3.2 Engineers

Hardware professionals working on power electronics, embedded systems, grid integration, and field deployment of NetEdison infrastructure.

Field	Type	Notes
Engineering Discipline	Multi-select	Power Electronics / Embedded Systems / Grid Systems / RF · Comms / Mechanical / Other
Hardware Experience	Multi-select	DC-DC converters / MOSFET·IGBT switching / Power-management ICs / Battery systems / PV·Wind inverters / Energy storage / Other
Professional Status	Single select	Industry / Academic / Research Lab / Independent / Student
Lab / Research Affiliation	Text	Institution or lab name
Project Interest	Multi-select	Energy Router hardware / ELAN deployment / EWAN design / Certification testing / Supply chain
Geography Focus	Text	Where they intend to deploy or research

3.3 Users

Organizations operating, commissioning, or planning NetEdison deployments — from single-building ELANs to national EnergyNets.

Field	Type	Notes
Organization Type	Single select	Municipality / Utility / Property Developer / Building Owner / Industrial / NGO / Academic / Government / Other
Use Case	Long text	Description of intended deployment
Scale of Interest	Single select	Single-building ELAN / District EWAN / Regional EnergyNet / National / Global
Timeline	Single select	Ready now / 1–2 years / 3–5 years / Research phase
Technical Readiness	Single select	Has engineering team / Needs partners / Needs full support
Regulatory Context	Text	Country / state grid regulations relevant to deployment

3.4 Investors

Individuals and institutions providing capital to accelerate development, manufacturing scale-up, and global deployment of the NetEdison open energy standard.

Field	Type	Notes
Investor Type	Single select	Individual / Angel · Family Office · Venture Capital · Private Equity · Corporate / Strategic · Impact / ESG Fund · Government / DFI
Preferred Investment Size	Single select	Under $250K · $250K–$1M · $1M–$5M · $5M–$25M · $25M–$100M · $100M+
Investment Stage	Multi-select	Pre-Seed · Seed · Pre-Revenue · Series A · Revenue / Growth · Operational
Decision Timeline	Single select	Ready now · 3–6 months · 6–12 months · 12–24 months · Research / pipeline only
Geography Preference	Text	Preferred deployment geography for investments
Investment Thesis	Long text	Investment focus, return expectations, and energy / infrastructure thesis
Existing Energy Portfolio	Text	Notable prior or current holdings in energy, grid, or cleantech
Accredited Investor	Checkbox	Self-confirmed accredited investor or qualified institutional buyer

4. Views

Six views are configured on the master table, each tuned to a specific audience. Administrators see everything; persona views show only relevant records and fields; the public directory exposes a strict, opt-in subset of non-PII fields.

View	Filter	Visible Fields	Audience
1. All Records (Admin)	None — all rows	All fields; CSV export enabled	Registry administrators only
2. Coders	Persona Type = Coder	Name, GitHub Username, Primary Languages, EROS Focus, Availability, Country, Fork Interest, Status	Core team + opt-in public gallery
3. Engineers	Persona Type = Engineer	Name, Organization, Discipline, Hardware Experience, Professional Status, Country, Project Interest, Status	Core team + opt-in public gallery
4. Users	Persona Type = User	Name, Organization, Org Type, Use Case, Scale, Timeline, Country, Status	Core team + opt-in public gallery
5. Investors	Persona Type = Investor	Name, Organization, Investor Type, Investment Size, Stage, Decision Timeline, Geography, Status	Core team only (confidential)
6. Public Directory	Public Directory Opt-in = Yes **and** Status = Active	Name, Organization, Country, Persona Type, persona summary field	Embedded on netedison.com / community

Sort order

Coders and Engineers views sort by **Registration Date descending** (newest first). The Users view sorts by **Scale of Interest** (Global → National → Regional → District → Building) so the highest-impact prospects rise to the top of the queue.

5. Tier Structure: Registry ↔ Affiliate License

The registry is the entry point into the NetEdison ecosystem. Every affiliate begins as a registrant; every registrant is a potential affiliate. The pathway from initial submission to a tier-tagged, license-executed affiliate follows five discrete stages:

Step 1 Register — Self-service form on netedison.com. Status set to **Pending**.

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Step 2 Core team review — Triage and verification by the registry administrator. Status → **Active**.

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Step 3 Express affiliate interest — Registrant referred to **hello@netedison.com** for license discussion.

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Step 4 Affiliate License executed — Status → **Verified**. Tier tag added (Labs / Country / Curriculum / Certified).

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Step 5 Fork registered — Verified Coders & Labs affiliates added to **docs/FORK_REGISTRY.md**.

Tier tags (applied post-license)

Tag	Applied to	Meaning
Labs Affiliate	Coders, Engineers	Running a NetEdison Labs fork
Country Affiliate	Users	Operating a national NetEdison presence
Curriculum Affiliate	Coders, Users	Teaching the NetEdison Curriculum
Certified Affiliate	Engineers, Users	Products have passed certification testing

6. Integration Points

The registry does not stand alone — it is wired into the broader NetEdison stack via lightweight, open integration points. All interfaces favor open standards (HTTP / iframe / webhook) over proprietary connectors.

Integration	Mechanism
Registration form on netedison.com	NocoDB form embed (iframe) **or** direct API **POST** from a custom front-end
GitHub cross-reference	Coder GitHub usernames render as live links to **github.com / [username]**
Fork Registry	Verified Labs affiliates appear in **docs / FORK_REGISTRY.md** via an automated sync
Email notifications	NocoDB webhook fires on new registration → transactional email to the core team
Public directory on site	NocoDB shared-view embed on the **/community/** page of netedison.com

7. Data Governance

Hosting

Element	Detail
Platform	Custom PHP application (open source, self-hosted)
Server	pons.opendoors.com — BWX INC dedicated server
Public URL	netedison.com/registry/ (Apache → PHP 8.x on Ubuntu)
Database	MariaDB 10.x — database: netedison, table: registrants
Admin panel	netedison.com/registry/admin/ (session-authenticated, bcrypt credentials)
Backups	Nightly virtualmin backup → ~/virtualmin-backup/

Data protection & GDPR alignment

All registry data is held on BWX INC infrastructure — no third-party SaaS processor is involved. Email addresses are never publicly exposed; the public directory shows only **name**, **organization**, **country**, and persona-specific non-PII summary fields. Public visibility requires an explicit opt-in checkbox at registration.

The registry is GDPR-aligned: registrants may request data export or deletion at any time by emailing **hello@netedison.com**. Requests are actioned within 30 days.

Backup & retention policy

The SQLite database is backed up nightly to the BWX INC virtualmin backup volume; the most recent 30 nightly snapshots are retained. An **annual data review** identifies registrants with no activity in the preceding 24 months — these records are notified by email and removed from the active registry unless the registrant re-confirms interest.