

2hp – EG

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Using the 2hp EG Envelope Generator to Create Full-Length Eurorack Songs

Many modular synth users find it easy to patch up an inspiring loop, but extending those ideas into dynamic, structured, full-length songs is more challenging. The 2hp EG is a compact, flexible envelope generator with unique features for dynamic patching. Here's how you can leverage it creatively, in combination with other modules, to build evolving, musical compositions.

Summary: What Makes the 2hp EG Special?

- **Ultra wide envelope times:** 3ms to 11 minutes per stage (attack/decay)
 - **CV over attack & decay:** Lets you automate envelope shapes
 - **Switchable linear/exponential response:** For precise or musical contour shaping
 - **Built-in attenuator (AMP knob):** For scaling the envelope amount
 - **Tiny size (2HP):** Slot anywhere in your rack for modulation
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Tips for Song-Creation with 2hp EG

1. Song Structure with Evolving Envelopes

- Use the orbital-long envelope times for slow builds and releases—set an attack or decay to several minutes to open up a filter or VCA slowly, creating natural intro, outro, or breakdown sections.
- Use external sequencers or clock dividers to send trigger/gate signals for section changes (e.g., changing from verse to chorus, breakdowns, etc.).

2. Dynamic Transitions and Automation

- Patch slow LFOs, random voltages, or scene-based sequencer lanes into the attack/decay CV inputs to morph envelope timing throughout your performance—making for less repetitive, more 'performed' modulations.
- Example: As a chorus approaches, use triggered CV to extend the decay for longer reverb tails or swelling sounds.

3. Expressive Drum Variation

- Use the EG as a snappy envelope for drum voices—triggered by rhythm sequencers. Vary the attack/decay CV for fills, accents, and humanizing drum envelopes.
- For breakdowns, increase the decay for ride cymbals or hats to wash out the groove, then snap it back for returns to the main beat.

4. Animated Melodic Motifs

- Patch the envelope to modulate a filter cutoff or oscillator level, changing contour per sequence step. CV control can swing the mood from staccato, plucked lines to smoothed, pad-like swells.
- Linear/expo toggle gives contrast between percussive (expo) and smoother (linear) phrasing.

5. Manual or Automated "Morphing"

- Switch envelope shapes (linear/expo) live, or send triggers/gates from performance-oriented controllers to the EG trigger input—using the AMP for smooth fade-ins/out, or abrupt drops, ideal for live improvisation.

6. Layered Patches & Scene Changes

- Use multiple EGs (or mult triggered output) for complex, layered modulation across your system, all synced to master timing, or offset for polymetric feel.
 - Sequence EG parameters alongside your main CV sequences for truly dynamic patches, moving easily between different energy sections in your song.
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Example Patch Ideas

Role	EG Use	Companion Module
Song intro/ outro	Attack/Decay set super slow, fades in/out	VCA, Filter, Reverb
Chorus lift	CV decay longer for reverb tail	FX, VCA
Beat accent	Snappy decay for snare; slow for cymbal	Drum module, LPG, Reverb
Bass morph	Envelope to VCF, CV mod for accent/basslines	Filter, Sequencer
Melodic phrasing	CV shaping of envelope for note expressivity	VCO, Quantizer, LFO

Workflow Tips for Composing Songs with 2hp EG

- **Plan Sections:** Use envelope stage lengths and CV to denote verses, choruses, breakdowns, and transitions. Map your patch so rhythm, lead, FX, and dynamics shift across song sections.
 - **Hands-on Control:** Put the AMP or CV ranges within reach for manual tweaks during performance or live takes.
 - **Automation:** Pair with step sequencers, LFOs, or control modules to automate dynamic changes—think of each EG parameter as a macro for your sound.
 - **Layer:** Use several EGs (or copies of the 2hp EG) for impact on multiple layers at once—e.g., bringing in FX, modulating VCA, and filter cutoff per section.
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By using the 2hp EG's long timing, voltage control, and morphable contour **creatively in song construction**—rather than just set-and-forget transient shaping—you unlock a whole new level of patch-based composition. Every song section can have unique motion and energy, transforming your modular jams into actual finished tracks.

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