**Revised Vlog Script (3-Minute Target)**

**(0:00-0:10) Introduction & Hook (Visual: Project Title Slide/Animated Network)**

* **[You, on camera]:** "Hi! We're [Your Names], and we're developing 'Eco-Resilient Networks' – a project to make network infrastructure both highly reliable *and* environmentally sustainable. Think vital online services – they need to be *always on*, but also energy-efficient."

**(0:10-0:20) The "Why" and UN SDGs (Visual: UN SDG icons)**

* **[You, on camera]:** "We're tackling this because technology shouldn't harm the planet. Our project directly supports several UN Sustainable Development Goals, focusing on affordable and clean energy, sustainable infrastructure, and climate action." (Show SDG icons *briefly*).

**(0:20-0:40) Project Vision & Business Case (Visual: SFC Optimization Diagram)**

* **[Transition to network diagram with VNFs]:** "We're creating a system that intelligently manages 'Service Function Chains' – the virtual network functions powering online services. Our algorithms automatically place these functions to *maximize* availability *and minimize* energy use."
  + **(Point to diagram elements as you speak):** "Cloud, edge, or hybrid – our system optimizes placement for the best performance and smallest footprint."

**(0:40-0:55) Current State & Gap (Visual: Split screen – "Current" vs. "Our Solution")**

* **[Split screen visual]:**
  + **Left ("Current"):** Icons of traditional tools. Text: "Reactive, Uptime Focus, Overlooks Energy."
  + **Right ("Our Solution"):** Icons of your project. Text: "Proactive, Joint Optimization, Sustainable."
* **[You, voiceover]:** "Existing tools prioritize uptime, often ignoring energy. We're filling that gap – proactive, joint optimization."

**(0:55-1:05) Impact (Visual: Saskatchewan Map, then Globe)**

* **(Saskatchewan map):** "Locally, this means more reliable *and* affordable internet, especially in rural areas, with a lower environmental impact."
* **(Globe):** "Globally, it's a step towards greener, more efficient networks worldwide."

**(1:05-1:15) Audience (Visual: Icons representing engineers, businesses)**

* **[You, On Camera]:** "We're building this for network engineers and architects, but the benefits extend to everyone who relies on online services, fitting community orientations of projects, content, expertise, and service."

**(1:15-1:25) Constraints (Visual: Simple challenge graphic)**

* **[You, on camera]:** "As a student project, we're focusing on simulation, not real-world deployment, and starting with simplified models. This lets us rapidly test and refine our ideas."

**(1:25-1:55) Architecture & Prototype (Visual: Key diagrams – choose *two*, max *three*)**

* **[Transition to diagrams. Choose the *most impactful* two or three. System Context, Architecture, and *maybe* Data Flow are good choices. Skip the Class Diagram for a short presentation.]**
* **[You, voiceover, pointing to key elements – *very* brief explanations]:** "Here's the system overview: inputs, processing, optimized outputs. We're using Python and a simulation framework, with algorithms that balance availability and carbon footprint." *(Keep descriptions extremely concise.)*. For example, "Here's how data flows and how placement decision are made".

**(1:55-2:10) How it works**

* **On Screen**: Show a simple fat-tree network topology.
* **[You, voiceover]:**" The user defines the network topology by specifying nodes and links. Also define the resources available on each node."
* **On Screen:** An SFC consisting of connected VNFs(Firewall, load balancer, web server).
* **[You, voiceover]:**" User also defines the SFC that needs to be deployed, including the VNFs and the required resources"

**(2:50-3:00) Call to Action & Outro (Visual: GitHub logo, contact info)**

* **[You, on camera]:** "We're open-sourcing our framework on GitHub! We're looking for feedback and collaborators to build a more sustainable network future. Check the link below, and thanks for watching!"