

Pilot Project Plan: Distributed Renewable Micro Data Hubs

Phase	Duration (Weeks)	Key Activities	Lead Roles
Phase 1: Planning & Design	Weeks 1–4	Finalize architecture, select sites, confirm renewables potential, define use cases, draft legal, Energy Systems Engineer, Network Engineer	
Phase 2: Infrastructure Setup	Weeks 5–8	Procure and install solar/wind/BESS, deploy servers, configure network and cloud, Energy Systems Engineer, Network Engineer	
Phase 3: Software & Service Deployment	Weeks 9–10	Deploy workloads (LMS, chat, ticketing), integrate Carbon/SoC API, set up monitoring, DevOps Lead, Software Engineer, Community Manager	
Phase 4: Testing, Optimization & Training	Weeks 11–12	Stress test systems, train community admins, refine energy-aware orchestration, Project Lead, Energy & DevOps Teams, Community Manager	
Phase 5: Evaluation & Scale Planning	Weeks 13–16	Measure results, analyze KPIs, produce final report and playbook for expansion, Evaluator, Finance/Admin, Community Board	

Phase	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16
Phase 1	■	■	■	■												
Phase 2					■	■	■	■								
Phase 3									■	■						
Phase 4											■	■				
Phase 5													■	■	■	■