₩ Initial Application Go/No-Go	Application	Phase 1: Detailed Plan	Phase 2: Develop, Permit, Finance	Phase 3: Install, Integrate, Construct	Phase 4: Ramp- Up & Operate
	Pre - DOE funding	✓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	60.4B - \$1.25B Total DOE Fundir Up to 15% of Total DOE Funding, ~2-3 Years	ng; Non-Federal Cost Share ≥ 50 DOE Funding To Be Negotiated, ~2-4 Years	DOE Funding To Be Negotiated, 2-4 Years
Business Development & Management	 H2Hub Summary Business Plan (BP), including preliminary site selection Management Plan (MP) Financial Plan (FP) 	 Market, feedstock, & offtake letters of commitment Final site selection Financial model Updated BP, MP, FP 	 Teaming, offtake, & feedstock agreements Site access secured Confirmed project financing Updated BP, MP, FP Labor agreements 	 Regular progress/status reporting for all agreements Regular financial status reports Other reporting per terms & conditions (T/Cs) Updated BP, MP, FP covering Phases 3-4 	 Financial model updated with offtake & production data Revised growth plan & projections Updated BP, MP, FP covering ramp-up & steady state operations
Engineering, Procurement, Construction, & Operations	 Engineering concept (~5%) Technology Readiness Level (TRL) descriptions Integrated Project Schedule (IPS): Full Project - L1; Phase 1 - L2 Class 4 Total Project Cost (TPC) estimate Operating & disposition concepts 	 Engineering & Design (~30%) & related documents Performance model TRL analysis & uncertainties IPS: Full Project - L2; Phase 2 - L3 Class 3 TPC estimate 	 Engineering & Design (~90%) & related documents TRL updates IPS: Full Project - L3 Class 1 TPC estimate Standard project management tool in use Updated Operating Plan Updated Disposition & Decommissioning (D&D) Plan 	 Progress execution reporting Integrated project completion testing 	 Regular operations status reporting Performance ramp verification & validation (V&V) Validated performance model Final TPC accounting
Safety, Security, & Regulatory Requirements	 Safety history/culture description Permitting workflow overview Environmental Considerations Summary 	 Initial Safety Plans (hydrogen & site; 30% design) Cybersecurity Plan Environmental Information Volume 	 Execution-ready Safety Plans (hydrogen & site ; 90% design) Final Cybersecurity Plan Permits in place for construction Complete environmental reviews/assessments 	 Status reporting on required permits & environmental Safety & security incident reporting & audits Permits for operations 	 Ongoing permit, safety, & security reporting
Risk Analysis & Mitigation	 Risk Management Plan (RMP) Risk Register 	 RMP, Risk Register updates 	 Quantitative risk analysis RMP, Risk Register updates 	 RMP, Risk Register updates Periodic quantitative updates 	Tech risk updated for operationsOngoing risk reporting
Technical Data & Analysis	 Preliminary Techno- economic Analysis (TEA) Preliminary Life Cycle Analysis (LCA) 	Updated TEAUpdated LCA	 Mature LCA Mature TEA w/ risk analysis Technical Verification & Validation (V&V) Plan 	 Periodic TEA & LCA updates V&V data collection & analysis 	 LCA & TEA incorporating operational data Ongoing data collection & dissemination
Community Benefits: Job Quality & Equity	American Workforce Justice40 Initial plan, including: • Community & Labor Engagement • Investing in the American Workforce • Justice40 Initiative • Diversity, Equity, Inclusion, & Accessibility (DEIA)	 Implement Phase 1 scope of CBP Update CBP for future phases based on activities & lessons learned, including documentation of stakeholder engagement status, workforce development, Justice40 implementation, & documentation of extent of community consent 	 Implement Phase 2 scope of CBP Measure & report on all CBP metrics Update CBP for future phases based on activities & lessons learned 	 Implement Phase 3 scope of CBP Measure & report on all CBP metrics Update CBP for future phases based on activities & lessons learned 	 Implement Phase 4 scope of CBP Measure & report on all CBP metrics Final report including accomplishments, findings, & plans for steady state operations

Figure 3. Summary of activities and outcomes in each phase of H2Hub projects.

Questions about this FOA? Email <u>H2Hubs@hq.doe.qov</u> Problems with OCED Exchange? Email <u>OCED-ExchangeSupport@hq.doe.qov</u> Include FOA name and number in subject line.