[Your company name] Project Submission for ARCHES Rolling Review

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# Technical Overview (suggested 5 pages)

*Overview of the technical and design of the project including the following:*

* *Sector(s) addressed and performance projections including preliminary carbon intensity of process or produced hydrogen*
* *Scope (include rationale, geographic region, preliminary site(s) …)*
* *How it will interact and enable other sectors and sustainable hydrogen ecosystem including dependences on the other sectors*
* *Technologies being utilized including TRL level(s), non-commercial or commercial technologies,*
* *System integration and infrastructure including existing, leveraged, or new requirements, and noting of possible changes to already planned modifications and upgrades*
* *Resource and feedstock requirements including their proximity*
* *How it will minimize environmental risks including adverse impacts to air, soil, water (e.g. drought impacted, potable or other critical water use needs) or increase in life cycle GHG footprint including initial project LCA (if done)*
* *Environmental impacts including anticipated waste streams and reductions in GHG and criteria pollutants*
* *Ability to and readiness to enact project including current level of completion*
* *Process flow diagram*
* *Preliminary project/execution schedule - major tasks and milestones including cost estimates*
* *Status of engineering design*
* *Status of procurement of critical technologies and their (anticipated) source (especially if not made in the USA)*
* *Safety plan including concerns and issues and prior experience*
* *Any unique or ancillary benefits*
* *Provide more details on your water source*

[Insert answer here]

# Business Plan (max. 3 pages)

*The plan should provide a top-level description, schedule, and status, of all critical path contracts and agreements relevant to the project. Be sure to include:*

* *Initial Market Analysis and TEA including reduced cost compared to incumbent technologies and expanded end use markets for clean hydrogen with a route towards meeting relevant cost targets. Including any dependence on RECs, IRA credits, etc. and their integration into the project and plan and schedule to achieving long-term financial viability*
* *Key Contracts, and Agreements including*
	+ *Letters of intent/MOUs/agreements with key equipment suppliers or partners*
	+ *Permitting status (NEPA/CEQA, municipalities, etc - current status and anticipated completion dates)*
	+ *Off take agreements*
	+ *Supply agreements*
* *Primary Site(s) Selection and current state of site control*
* *Current and future commercial feasibility of the proposed technology(ies) and infrastructure including ancillary benefits*
* *Degree of how it accelerates transformational commercial deployments in areas that industry is not likely to undertake because of technical and financial uncertainty*
* *Growth plan including both location(s) and technology and financial scalability, expansion opportunities with capacity numbers, modularity and incremental growth*
* *Please provide any anticipated price points*

[Insert answer here]

# Funding Plan (max. 2 pages)

*The preliminary plan (include cost share) for funding for project development in Phases 1 and 2, funding for Phase 3 including medium-term financing for machinery and equipment, and longer-term financing for the site and facility including sources and uses, and any required funding beyond internal cash flow including working capital financing in Phase 4. Please include:*

* *Amount, type, and timing of cost share and its origin and security*
* *Existing federal, state, local, and private financial support*
* *The financial strength of the lead and partner organizations*
* *The amount of expected traditional equity investments (identify participants and level of participation, if applicable) noting the incremental costs for hydrogen technologies over planned for incumbent transitions*
* *The timing of expected equity contributions and/or debt funding*
* *The timing of repayment of expected debt funding*
* *If debt is contemplated, provide a plan for managing potential interest rate risk and default risk*
* *If tax equity or other non-traditional equity investments are contemplated, highlight any structural requirements that might arise from such investments and Source should also be detailed including:*
	+ *Up-front Capital Investment*
	+ *Variable Operating Expenses for Energy and Feedstock*
	+ *Refurbishments, Capital Replacements, and Overhauls*
	+ *Fixed and Other Variable Operating Expenses*
	+ *Financing Procurement and Structure*
	+ *Other Incentive Availability*

[Insert answer here]

# Community Benefits Plan (max. 3 pages)

*Description as to the project benefits, existing community engagement strategy, and community engagement which is in progress or completed. This plan should include:*

* *Existing or proposed engagement strategies for local communities*
* *Names and contact information of partner communities or community-based organizations that you already work with*
* *Alignment with Justice 40 initiative*
* *Approach towards Diversity, Equity, Inclusion and Accessibility (DEIA)*
* *Societal benefits including mitigating negative impacts such as energy cost burden and pollutant emissions*
* *Local benefits such as infrastructure improvements and community services*
* *How the project invests in the American and California workforce including workforce and community agreements and development of sustained local careers and jobs*
* *Any plans on development/growth/establishing business/manufacturing in CA region*

[Insert answer here]

# Management and Organization (max. 1 page)

*Description of project management and commitment from lead and any partner organizations and key stakeholders. Also should address:*

* *Project Team qualifications*
* *Existing relationships with industry and communities*
* *Experience and demonstrated record of leadership in similar scale projects (federally funded preferred) including possibly hydrogen and proven ability to deliver in time including examples of project completion*
* *Understanding of regulatory and policy environment especially in CA*

[Insert answer here]

# Risk Analysis and Mitigation (1 page)

*Add rows as desired*

|  |  |  |
| --- | --- | --- |
| **Key Risks** | **Impact** | **Risk Mitigation and Response Strategy** |
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