

PEACE ENGINEERS

**THE TREATY FOR REGENERATIVE PEACE AND
HUMAN SOVEREIGNTY**

Volume I

Formal Treaty Document

A technology-enabled protocol treaty to engineer peace through regenerative abundance.

Prepared for leaders, tribal nations, states, cities, institutions, companies, investors, builders, and communities seeking to make peace practical.

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Publisher Notice and Drafting Status

This five-volume package is a first working edition of the PEACE Treaty framework. It is drafted for diplomatic, tribal, municipal, corporate, philanthropic, and technical review. It is not legal advice, does not create binding obligations until adopted by a competent signatory authority, and should be reviewed by counsel in each jurisdiction before use.

The framework is designed as an opt-in protocol treaty and multi-stakeholder compact. It can be adopted by nation-states, tribal nations and Indigenous governments, regional coalitions, municipalities, public agencies, corporations, universities, nonprofits, investors, and ReGen Hubs. The design intentionally uses incentives, open standards, transparent measurement, and self-enforcing economics rather than coercive global bureaucracy.

Technology performance claims, business-stage descriptions, energy-cost targets, and jurisdictional claims referenced from PEACE Ecosystem materials remain subject to independent technical, legal, financial, and scientific verification before any binding deployment decision.

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Preamble

The Parties to this Treaty recognize that the greatest driver of resource conflict is not the existence of human need, but the engineering of dependency, scarcity, monopoly, and unequal access to the means of life. The Parties therefore commit to build a practical peace architecture that makes resource war structurally irrational by making local regenerative provisioning cheaper, more resilient, more dignified, and more sovereign than extractive competition.

The Parties honor Indigenous nations, elders, cultures, languages, and living watershed knowledge as essential sources of law and design. They recognize that a community that understands there is no away already possesses a civilization logic beyond waste, extraction, and ecological amnesia.

The Parties affirm that peace is not merely the absence of violence. Peace is the presence of regenerative systems that allow people, watersheds, cultures, economies, and future generations to flourish. Peace is measurable infrastructure, accountable governance, distributed capability, and shared abundance.

Peace = Abundance + Decentralization + Coherence.

Source note: Peace Protocols formulation adapted for treaty use.

Part I - Foundational Clauses

Article 1 - Purpose

1. The purpose of this Treaty is to establish a voluntary, opt-in, technology-enabled framework for ending resource wars by increasing regenerative abundance, local resilience, and community sovereignty across the Twelve Resource Realms.
2. The Treaty does not replace lawful national constitutions, tribal sovereignty, human rights instruments, or environmental agreements. It provides the implementation architecture by which those commitments may become measurable systems.
3. The Treaty is designed to complement existing global development frameworks while transcending the limitations of goal-only frameworks through binding protocols, open standards, financing pathways, certification, and transparent reporting.

Article 2 - Legal Form

1. This instrument may operate simultaneously as: (a) an international treaty among nation-states; (b) a compact among tribal nations and Indigenous governments; (c) a charter for regions, cities, institutions, and ReGen Hubs; and (d) a corporate and industrial covenant for private-sector signatories.
2. Each signatory adopts obligations appropriate to its legal capacity. A nation may ratify. A tribal government may accede by resolution or treaty instrument. A city may adopt by ordinance. A corporation may adopt by board resolution and contract. A ReGen Hub may adopt by charter.
3. No signatory shall use this Treaty to diminish the sovereignty, jurisdiction, treaty rights, land rights, cultural rights, or free, prior, and informed consent rights of Indigenous peoples.

Article 3 - Core Definitions

1. Resource Realm means one of the twelve provisioning domains listed in Part II: Energy, Water, Food, Health, Shelter, Waste, Education, Communication, Transportation, Manufacturing, Economics, and Governance.
2. Sovereign Body means one of the seven human domains of sovereignty: Spiritual, Mental, Emotional, Physical, Economic, Cultural, and Political.
3. Regenerative Output means a measurable flow of goods, services, knowledge, energy, ecosystem function, or governance capacity that increases local vitality without degrading the source system.
4. Dependency Factor means the degree to which a community relies on centralized, imported, monopolistic, debt-based, fragile, or extractive provisioning for a given realm.
5. ReGen Hub means a regional deployment node that integrates training, manufacturing, technology demonstration, data reporting, governance participation, and realm improvement.

Article 4 - Principles of Peace Engineering

1. Scarcity shall be treated as an engineering problem before it is treated as a political inevitability.
2. Every realm plan shall prioritize local capacity, open knowledge, regenerative outputs, transparent measurement, and community benefit.
3. The cheapest long-term option should become the regenerative option; incentives shall be designed accordingly.
4. No Party shall knowingly create or preserve avoidable resource dependency for the purpose of political or economic domination.
5. The Treaty shall be interpreted in favor of dignity, life, watershed health, transparency, consent, and intergenerational repair.

Article 5 - Signatories and Participation

1. The following categories of signatories may adopt this Treaty. Each may participate independently or through nested coalitions.

Signatory Type	Adoption Path
Nation-State Party	Ratifies or accedes through constitutional process; files National Realm Transition Plan; receives treaty status.
Tribal or Indigenous Government	Accedes as a sovereign cultural and territorial steward; may co-govern watersheds, knowledge, and ReGen Hubs.
Region, Province, State, or City	Adopts by ordinance, compact, or executive act; implements local realm plans and reporting.
Corporate or Industrial Signatory	Adopts corporate compact; aligns procurement, supply chains, impact reporting, and technology sharing.
University, Lab, or School System	Adopts education, research, standards, and open-

Signatory Type	Adoption Path
	knowledge obligations.
Investor, Fund, or Bank	Adopts Peace Finance Principles; funds certified projects and reports regenerative returns.
ReGen Hub	Serves as local deployment, manufacturing, training, measurement, and coordination node.

Part II - Universal Resource Sovereignty Charter

The Parties recognize that the Twelve Resource Realms are the practical architecture of peace. Each Article below establishes a right, a duty, a measurement obligation, and a deployment pathway.

Article 6 - I. Energy

1. Every person and community has the right to fair, dignified, and regenerative access within the realm of Energy.
2. Each Party shall publish a realm baseline and annual improvement plan using the Energy Autonomy Ratio (EAR). The initial standard metric is: Local clean generation / total demand.
3. End fuel dependency and make energy abundance the upstream driver of all other realms.
4. Parties shall prioritize local ownership, distributed technology, resilience under disruption, and measurable reduction of extractive dependency.

Article 7 - II. Water

1. Every person and community has the right to fair, dignified, and regenerative access within the realm of Water.
2. Each Party shall publish a realm baseline and annual improvement plan using the Water Sovereignty Index (WSI). The initial standard metric is: Locally harvested or regenerated water / consumed water.
3. Make watersheds resilient through harvesting, reuse, restoration, and clean distribution.
4. Parties shall prioritize local ownership, distributed technology, resilience under disruption, and measurable reduction of extractive dependency.

Article 8 - III. Food

1. Every person and community has the right to fair, dignified, and regenerative access within the realm of Food.
2. Each Party shall publish a realm baseline and annual improvement plan using the Local Nutrition Ratio (LNR). The initial standard metric is: Local regenerative nutrition / nutritional need.
3. Shift from calories as commodities to nourishment as local resilience.
4. Parties shall prioritize local ownership, distributed technology, resilience under disruption, and measurable reduction of extractive dependency.

Article 9 - IV. Health

1. Every person and community has the right to fair, dignified, and regenerative access within the realm of Health.
2. Each Party shall publish a realm baseline and annual improvement plan using the Wellness Autonomy Index (WAI). The initial standard metric is: Preventive and local care capacity / health need.
3. Build community health that lowers crisis dependency and improves vitality.
4. Parties shall prioritize local ownership, distributed technology, resilience under disruption, and measurable reduction of extractive dependency.

Article 10 - V. Shelter

1. Every person and community has the right to fair, dignified, and regenerative access within the realm of Shelter.
2. Each Party shall publish a realm baseline and annual improvement plan using the Housing Integrity Score (HIS). The initial standard metric is: Safe regenerative shelter / household need.
3. Make shelter durable, efficient, affordable, non-toxic, and locally maintainable.
4. Parties shall prioritize local ownership, distributed technology, resilience under disruption, and measurable reduction of extractive dependency.

Article 11 - VI. Waste

1. Every person and community has the right to fair, dignified, and regenerative access within the realm of Waste.
2. Each Party shall publish a realm baseline and annual improvement plan using the Circularity Index (CI). The initial standard metric is: Materials reused, repaired, composted, or regenerated / total material throughput.
3. End the concept of away by turning outputs into inputs.
4. Parties shall prioritize local ownership, distributed technology, resilience under disruption, and measurable reduction of extractive dependency.

Article 12 - VII. Education

1. Every person and community has the right to fair, dignified, and regenerative access within the realm of Education.
2. Each Party shall publish a realm baseline and annual improvement plan using the Knowledge Liberation Index (KLI). The initial standard metric is: Applied useful knowledge / knowledge consumed.
3. Convert education into actual capability, systems literacy, and practical skill.
4. Parties shall prioritize local ownership, distributed technology, resilience under disruption, and measurable reduction of extractive dependency.

Article 13 - VIII. Communication

1. Every person and community has the right to fair, dignified, and regenerative access within the realm of Communication.
2. Each Party shall publish a realm baseline and annual improvement plan using the Free Flow Ratio (FFR). The initial standard metric is: Open truthful signal flow / total information dependency.
3. Protect sovereign communication, open knowledge, and resilient mesh coordination.
4. Parties shall prioritize local ownership, distributed technology, resilience under disruption, and measurable reduction of extractive dependency.

Article 14 - IX. Transportation

1. Every person and community has the right to fair, dignified, and regenerative access within the realm of Transportation.
2. Each Party shall publish a realm baseline and annual improvement plan using the Mobility Autonomy Factor (MAF). The initial standard metric is: Local clean mobility capacity / mobility need.
3. Move people and goods without binding communities to extractive fuel or fragile logistics.
4. Parties shall prioritize local ownership, distributed technology, resilience under disruption, and measurable reduction of extractive dependency.

Article 15 - X. Manufacturing

1. Every person and community has the right to fair, dignified, and regenerative access within the realm of Manufacturing.
2. Each Party shall publish a realm baseline and annual improvement plan using the Regenerative Production Ratio (RPR). The initial standard metric is: Local regenerative production / imported productive dependency.
3. Restore local making, repair, tool ownership, and circular manufacturing capacity.
4. Parties shall prioritize local ownership, distributed technology, resilience under disruption, and measurable reduction of extractive dependency.

Article 16 - XI. Economics

1. Every person and community has the right to fair, dignified, and regenerative access within the realm of Economics.
2. Each Party shall publish a realm baseline and annual improvement plan using the Abundance Flow Index (AFI). The initial standard metric is: Commons-backed productive flow / debt-extractive flow.
3. Make money, credit, and ownership serve life, resilience, and sovereign production.
4. Parties shall prioritize local ownership, distributed technology, resilience under disruption, and measurable reduction of extractive dependency.

Article 17 - XII. Governance

1. Every person and community has the right to fair, dignified, and regenerative access within the realm of Governance.

2. Each Party shall publish a realm baseline and annual improvement plan using the Justice Coherence Index (JCI). The initial standard metric is: Transparent responsive decision capacity / governance burden.
3. Make governance participatory, accountable, lawful, transparent, and repair-oriented.
4. Parties shall prioritize local ownership, distributed technology, resilience under disruption, and measurable reduction of extractive dependency.

Part III - Measurement, Verification, and Certification

Article 18 - Peace Efficiency Index

1. The Peace Efficiency Index, Pe, shall be calculated as the sum across the Twelve Resource Realms of regenerative output relative to dependency: $Pe = \text{SUM}(R_i / D_i)$, where R_i is regenerative output in realm i and D_i is dependency factor in realm i .
2. Pe shall be interpreted directionally. It increases when local regenerative output rises, external dependency falls, or both.
3. Pe shall not be used to punish impoverished communities for inherited dependency. It shall be used to identify where investment, technology transfer, and governance reform will have the greatest peace return.

Article 19 - Community Vitality Index

1. The Community Vitality Index, CVI, shall be calculated as: $CVI = (H + Dg + F) / (S + Db + De)$, where H means health, Dg means dignity, F means freedom, S means scarcity, Db means debt burden, and De means dependency.
2. CVI shall be used to ensure that technical abundance becomes human flourishing rather than merely higher throughput.
3. No Party may claim treaty success if Pe rises while CVI falls, unless the Party publishes a credible correction plan and independent review.

Article 20 - Realm Baselines and Data Sovereignty

1. Each Party shall produce an initial baseline across all twelve realms before claiming certification.
2. Data shall be public by default for public systems and privacy-protective by design for individuals and households.
3. Indigenous, sacred, personal, health, and cultural data shall remain under community-determined governance and shall not be extracted into centralized systems without consent.

Article 21 - Certification Tiers

1. Certification shall be voluntary, earned, transparent, and revocable for fraud or material misrepresentation.

Tier	Minimum Standard
Observer	Public endorsement; learning period; no verified

Tier	Minimum Standard
	claims.
Bronze	Baseline completed; governance body formed; first 12-month realm plan published.
Silver	At least three realms measurably improved; transparent data registry active.
Gold	At least six realms improved; community benefit-sharing active; independent review completed.
Platinum	At least nine realms improved; significant dependency reduction; ReGen Hub operational.
Regenerative	All twelve realms improving; Pe and CVI trending upward across two reporting periods.
Self-Sovereign	Critical dependencies reduced to emergency-only levels while maintaining open cooperation.

Article 22 - Open Audit

1. All public claims under this Treaty shall be auditable through an open registry.
2. Audits shall include community testimony, technical data, financial data, environmental data, and governance review.
3. Auditors shall disclose conflicts of interest and shall include local or Indigenous reviewers when projects affect Indigenous lands, waters, culture, or governance.

Part IV - Institutions and Governance

Article 23 - Assembly of Parties

1. An Assembly of Parties shall meet at least annually to review implementation, adopt standards, recognize certifications, and coordinate finance.
2. The Assembly shall be multi-chambered to prevent domination by any single class of signatory.
3. Voting methods shall be transparent and may use consent, supermajority, quadratic preference, or other approved participatory methods.

Article 24 - Indigenous and Watershed Council

1. An Indigenous and Watershed Council shall advise on land, water, culture, language, ecological stewardship, and intergenerational obligations.
2. No standard affecting Indigenous cultural knowledge, sacred sites, or traditional ecological knowledge shall be adopted without meaningful consultation and consent procedures.
3. The Council may issue protective opinions when a project risks cultural extraction, ecological harm, or false claims of partnership.

Article 25 - Technical Standards Body

1. A Technical Standards Body shall maintain open protocols for the twelve realm metrics, certification criteria, data schema, interoperability, cybersecurity, and technology review.
2. Standards shall be modular and versioned so early adopters can act immediately while scientific validation continues to improve.
3. The Technical Standards Body shall distinguish verified technologies, pilot technologies, and speculative frontier technologies.

Article 26 - ReGen Hub Network

1. ReGen Hubs are the Treaty deployment layer. Each hub should include a local Peace Engineers chapter, technical training, manufacturing or repair capacity, realm data collection, public demonstration projects, and governance participation.
2. The default chapter design is 144 members: twelve realm teams of approximately twelve members each, supported by cross-realm integration teams.
3. Hubs shall publish quarterly Pe and CVI reports once operational.

Part V - Implementation, Finance, and Technology Commons

Article 27 - Realm Transition Plans

1. Each Party seeking Silver certification or higher shall publish a Realm Transition Plan covering all twelve realms.
2. Plans shall identify baseline conditions, dependency chokepoints, first interventions, financing sources, expected community benefits, risk controls, and measurement methods.
3. Plans shall include at least one 100-day action and one 12-month action in each realm.

Article 28 - Peace Infrastructure Finance

1. The Parties shall establish or recognize Peace Infrastructure Funds to finance certified projects.
2. Financing shall reward measurable dependency reduction, community ownership, ecological regeneration, local workforce development, and transparent governance.
3. Debt instruments shall be designed to avoid recreating dependency. Where possible, revenue sharing, community equity, cooperative ownership, and commons-backed credit shall be preferred.

Article 29 - Technology Commons

1. The Parties shall create a Technology Commons for open-source designs, build guides, measurement protocols, safety requirements, licensing templates, and implementation lessons.
2. Companies may protect legitimate intellectual property while still adopting open interoperability standards and transparent performance reporting.
3. Publicly financed technologies should be made available on fair, reasonable, transparent, and access-preserving terms.

Article 30 - Procurement and Market Incentives

1. Participating governments and institutions shall prefer certified regenerative procurement when cost, reliability, and safety are equal or superior.
2. Certified signatories may receive preferred access to finance, insurance, procurement opportunities, technical assistance, training, and marketplace visibility.
3. The Treaty shall make defection disadvantageous by lowering the cost of cooperation and increasing the reputational, financial, and operational cost of extractive dependency.

Part VI - Compliance, Dispute Resolution, and Peaceful Enforcement

Article 31 - Compliance Philosophy

1. The Treaty shall not rely on military enforcement, coercive sanctions, or centralized command. It shall rely on transparent measurement, incentives, peer review, restorative compliance, and the economic superiority of regenerative systems.
2. Non-compliance shall be addressed first through technical assistance, corrective plans, mediation, and community repair.
3. Fraud, coercion, corruption, greenwashing, cultural extraction, or material misrepresentation may result in suspension or loss of certification.

Article 32 - Dispute Resolution

1. Disputes shall be resolved through graduated procedures: local dialogue, technical review, mediation, restorative process, arbitration by consent, and finally ordinary courts or treaty tribunals where applicable.
2. Disputes involving Indigenous rights shall include procedures chosen or approved by the affected Indigenous government or community.
3. Emergency measures may be taken to protect life, water, food, shelter, health, and ecosystem integrity while disputes are pending.

Article 33 - Anti-Capture and Anti-Corruption

1. No Party shall use the Treaty as a cover for land grabs, resource extraction, cultural appropriation, debt traps, monopoly creation, or surveillance systems.
2. All large projects shall disclose beneficial ownership, procurement relationships, public subsidies, expected private gain, community benefit, and long-term stewardship duties.
3. Whistleblower protections shall apply to reporting of corruption, fraud, safety failures, coercion, or data misuse.

Part VII - Accession, Phasing, Amendments, and Final Clauses

Article 34 - Phased Deployment

1. Phase 1 shall prioritize Pacific-first demonstration through trusted nodes, including Alaska, Washington, Hawaii, Indigenous Pacific communities, and willing regional partners.
2. Phase 2 shall expand through Arctic, island, coastal, and remote communities where energy, water, and logistics costs make the peace economics immediately visible.
3. Phase 3 shall form continental ReGen Hub networks across the Americas, Africa, Europe, Asia, Oceania, and the Pacific Ring.
4. Phase 4 shall establish interoperable global recognition of certification, open data, finance, and technology standards.

Article 35 - Amendments

1. Amendments may be proposed by any certified Party, Indigenous Council, Technical Standards Body, or recognized ReGen Hub.
2. Technical annexes may be updated more rapidly than treaty articles, provided prior versions remain archived and auditable.
3. No amendment may diminish human dignity, Indigenous rights, ecological stewardship, transparency, or voluntary participation.

Article 36 - Entry Into Force

1. For nation-states, this Treaty enters into force according to the ratification terms specified by the Parties.
2. For other signatories, this Treaty enters into force upon authorized execution of the applicable accession instrument and publication in the registry.
3. A Party may withdraw by written notice, but withdrawal does not extinguish obligations incurred under separate contracts, grants, benefit-sharing agreements, or environmental restoration commitments.

Annex A - Instrument of Accession

The undersigned Party hereby accedes to the Treaty for Regenerative Peace and Human Sovereignty and commits to develop, publish, and implement a Realm Transition Plan appropriate to its legal authority and capacity.

Field	Entry
Party name	
Signatory category	
Authorized representative	
Territory or operating scope	
Initial certification target	

Field	Entry
Public registry URL	
Date	
Signature	

Annex B - Peace Declaration

We choose to engineer peace. We choose abundance over extraction, sovereignty over dependency, cooperation over resource war, and truth over concealment. We accept the duty to measure what matters, repair what has been harmed, and build systems worthy of the children who inherit them.

Annex C - Realm Metrics

Realm	Metric	Initial Formula	Peace Intent
I. Energy	Energy Autonomy Ratio (EAR)	Local clean generation / total demand	End fuel dependency and make energy abundance the upstream driver of all other realms.
II. Water	Water Sovereignty Index (WSI)	Locally harvested or regenerated water / consumed water	Make watersheds resilient through harvesting, reuse, restoration, and clean distribution.
III. Food	Local Nutrition Ratio (LNR)	Local regenerative nutrition / nutritional need	Shift from calories as commodities to nourishment as local resilience.
IV. Health	Wellness Autonomy Index (WAI)	Preventive and local care capacity / health need	Build community health that lowers crisis dependency and improves vitality.
V. Shelter	Housing Integrity Score (HIS)	Safe regenerative shelter / household need	Make shelter durable, efficient, affordable, non-toxic, and locally maintainable.
VI. Waste	Circularity Index (CI)	Materials reused, repaired, composted, or regenerated / total material throughput	End the concept of away by turning outputs into inputs.

Realm	Metric	Initial Formula	Peace Intent
VII. Education	Knowledge Liberation Index (KLI)	Applied useful knowledge / knowledge consumed	Convert education into actual capability, systems literacy, and practical skill.
VIII. Communication	Free Flow Ratio (FFR)	Open truthful signal flow / total information dependency	Protect sovereign communication, open knowledge, and resilient mesh coordination.
IX. Transportation	Mobility Autonomy Factor (MAF)	Local clean mobility capacity / mobility need	Move people and goods without binding communities to extractive fuel or fragile logistics.
X. Manufacturing	Regenerative Production Ratio (RPR)	Local regenerative production / imported productive dependency	Restore local making, repair, tool ownership, and circular manufacturing capacity.
XI. Economics	Abundance Flow Index (AFI)	Commons-backed productive flow / debt-extractive flow	Make money, credit, and ownership serve life, resilience, and sovereign production.
XII. Governance	Justice Coherence Index (JCI)	Transparent responsive decision capacity / governance burden	Make governance participatory, accountable, lawful, transparent, and repair-oriented.

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