



Natural Resource Management



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At Daira Sabz Consulting and Engineering Group, we recognize the critical role that Natural Resource Management (NRM) plays in achieving sustainable development goals, climate resilience, and ecological integrity. Operating across Germany, Afghanistan, and international regions, we ensure all services align with local environmental laws and policies (e.g. NEPA, ANSA, Water Law Afghanistan), EU Directives (e.g. EU Water Framework Directive, Natura 2000, Habitats Directive), and international frameworks such as the Convention on Biological Diversity (CBD), UNCCD, and REDD+.



1. Protected Area Management (PAM)

We integrate protected areas (PAs) into broader ecological landscapes and local development frameworks. Our focus areas include:

- Protected Area Planning & Management (IUCN categories)
- Governance, Rights & Capacity Building
- Community-Based Conservation Models
- Biodiversity Action Plans aligned with national strategies

• We apply standards such as the IUCN Green List, KfW biodiversity frameworks, and EU Nature Directives for impact assessment and governance.

2. Forest Landscape Restoration (FLR)

We deliver multi-functional landscape restoration services for climate, biodiversity, and livelihoods:

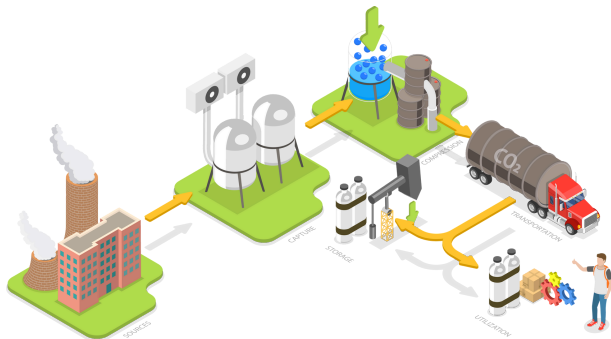
- Forest rehabilitation, agroforestry, and natural regeneration
- Integration of smart agriculture, REDD+, and LULUCF mitigation
- Forest monitoring using remote sensing, GIS, drones
- Development of forest product value chains
- Policy advisory on national forest programs and ecosystem accounting
- FLR approaches follow the Bonn Challenge, AFR100, and UN Decade on Ecosystem Restoration standards.



3. Payment for Ecosystem Services (PES)

We design, assess, and implement PES schemes to value and preserve ecosystem services:

- Carbon sequestration & REDD+
- Biodiversity and wildlife habitat conservation
- Watershed protection and water provisioning
- Eco-tourism and landscape aesthetics



Our PES services include:

- Economic valuation of ecosystem services (TEEB methodology)
- Design of Conservation Trust Funds, Offset Schemes, and Green Bonds
- Mainstreaming PES into land-use and policy planning
- Public-private partnership models for environmental finance

4. Integrated Water Resources Management (IWRM)

We offer a full range of water-related environmental consulting services, structured under the IWRM and EU Water Framework Directive principles:

4.1 Water Supply Services

- Surface and groundwater resource development
- Drinking and reuse water master planning
- Water safety planning, hydrogeology, and system optimization
- Smart metering and asset management (ISO 24518)

4.2 Wastewater and Reclaimed Water

- Sanitation master plans and decentralized solutions
- Nature-based and grey wastewater treatment systems
- Circular water reuse systems
- Sewage network diagnostics and upgrading



4.3 Surface Water & Resource Management

- Flood risk mapping and stormwater BMPs
- Ecosystem-based water management and riparian restoration
- River basin management aligned with EU WFD, UNECE protocols
- Infrastructure design for dams, reservoirs, hydraulic control

4.4 Climate and Mine Water Management

- Climate change impact assessment on hydrological systems
- Mine water characterization and discharge management
- Rural and peri-urban water systems for resilience
- Ecosystem restoration and green infrastructure integration

Additional NRM Services:

- Flora and fauna baseline and impact surveys (EU Habitats Directive, IFC PS6)
- Endangered species habitat management and offset planning
- Carbon footprint and ecosystem services modelling
- Restoration ecology and erosion control
- Biodiversity Net Gain and offsetting strategies
- Socio-ecological systems and sustainable livelihoods planning
- Eco-tourism site design and sustainability planning
- Support to Water User Associations, Protected Area Authorities, and Local Conservation Committees

Why Daira Sabz?

- We follow national regulations (e.g. Afghan Water Law, NEPA guidelines, German Federal Nature Conservation Act)
- We apply international standards: ISO 14001 (EMS), ISO 14090 (Adaptation), ISO 14064 (GHG), EU WFD, IUCN Guidelines
- We design NRM projects for implementation under donor-funded programs (e.g. GIZ, FAO, UNDP, WB, KfW)

Get in touch to explore nature-based solutions, carbon-smart landscapes, and sustainable water and land use systems for your region.



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