Checklist 4: Nature-Based Solutions (NBS) Integration in REC Neighborhoods

Checklist for Nature-Based Solutions (NBS) Integration in REC Neighbourhoods		
Context & Diagnosis	**Yes/No**	**Comments**
Is urban heat stress recognized as an issue within the neighborhood?		
Have environmental and social challenges been identified using available data?		
Is the role of NBS in reducing heat and increasing resilience clearly understood?		
Site-Specific Analysis	**Yes/No**	**Comments**
Have hot spots and land surface features been identified through mapping or field surveys?		
Is vegetation cover, surface reflectivity, and PV panel influence assessed per zone?		
Have possible places for NBS been mapped, considering land use and space?		
Are existing utilities and underground infrastructure mapped for conflict prevention?		
Legal & Planning Compliance	**Yes/No**	**Comments**
Do the proposed NBS follow local building, planning, and environmental regulations?		
Have existing legal or administrative barriers to NBS implementation been identified?		
Are incentives or supportive policy instruments for green infrastructure available?		
Feasibility & Technical Assessment	**Yes/No**	**Comments**
Has the building or site been checked to make sure it can support the NBS?		
Have local soil, water availability, and climate been considered for the design?		
Are the chosen materials and plants suitable for the local climate and long-lasting?		
Has the interaction with solar panels and possible heat effects been accounted for?		
Have risks, technical, environmental, or social, been identified and plans made to reduce them?		
Stakeholder Involvement	**Yes/No**	**Comments**
Have all relevant groups (community, authorities, experts) been identified and involved?		
Is there a clear process to include community ideas and feedback in planning?		
Are responsibilities and communication channels for stakeholder engagement defined?		
Are plans in place to educate and raise awareness about NBS benefits?		
Design Standards & KPIs	**Yes/No**	**Comments**
Are clear goals set for performance (e.g., temperature drop, water retention)?		
Has a cost-benefit or full lifecycle analysis been done for each NBS?		
Are key performance indicators (KPIs) aligned with project goals and measurable?		
Is there a plan to evaluate before and after impacts on environment and community?		
Implementation Readiness	**Yes/No**	**Comments**
Are roles, timelines, and resources clearly defined and agreed?		
Have construction steps, safety measures, and compliance checks been planned?		
Is contractor guidance aligned with technical design specifications for NBS systems?		
Monitoring, Maintenance, and Replicability	**Yes/No**	**Comments**
Is there a clear plan to monitor progress, including who collects data, how often, and reporting?		
Are there ways to adjust and improve NBS based on monitoring results?		
Are local communities or authorities involved in maintenance of NBS?		
Are lessons learned recorded to help expand or replicate in other areas?		