

Waste-to-Energy Biomass Feasibility Checklist

1. Biomass Resource Assessment

☐ Sources and types of biomass identified ☐ Quantity and availability assessed ☐ Moisture content considered ☐ Collection and transportation logistics evaluated ☐ Sustainability of supply verified

2. Technology & Process Selection

☐ Appropriate conversion technology selected (e.g. combustion, gasification, anaerobic digestion) ☐ Technology scale matches resource availability ☐ Proven efficiency and reliability reviewed ☐ Residue and byproduct management addressed

3. Site & Infrastructure

☐ Site location reviewed and secured ☐ Accessibility for feedstock delivery verified ☐ Utilities and water supply assessed ☐ Proximity to power grid/energy users checked ☐ Site permits evaluated

4. Economic & Financial Analysis

☐ Capital and operational cost estimated ☐ Feedstock supply contracts analyzed ☐ Revenue sources projected ☐ Financial incentives and grants examined ☐ Break-even and ROI calculated

5. Environmental & Regulatory Review

☐ Emissions limits checked ☐ Required permits identified ☐ Environmental impact assessment done ☐ Waste and effluent management assessed ☐ Community and stakeholder concerns addressed

6. Operation & Maintenance Planning

☐ O&M requirements documented ☐ Qualified personnel availability ☐ Health, safety, and training protocols created ☐ Spare parts and servicing considered ☐ Monitoring and reporting systems defined