



GREEN PPAS · STEP 01 · DEMAND STUDY · MEMO

RE Sourcing Envelope Memo

Concise recommendation memo defining target MW range, structure options (captive/OA/group-captive) and key regulatory flags for the chosen state(s).

Worked example (anonymised): Multi-site auto-component manufacturer, load aggregation study · 42 MW aggregated contract demand across 6 plants · Western India. Manufacturer sought to raise RE share from 18% to 60%+ across a multi-state manufacturing footprint with varying ToD tariffs and shift patterns.

Sample excerpt · Recommended Sourcing Envelope (Illustrative)

Parameter	Recommendation
Target RE capacity	38-45 MW (solar-wind hybrid)
Structure	Group captive (26% equity route)
Contracted RE share target	60-65% of annual consumption
Banking provision needed	Yes - monthly banking preferred
States in scope	2 of 6 plant states cleared for OA

Notes

- Two plant locations flagged for open-access regulatory constraints
- Envelope to be validated against developer bids in sourcing strategy stage

What happens in this step

1. Collect 12-24 months of 15-minute interval consumption data across all connection points and voltage levels
2. Build load duration curves and seasonal/monthly demand heat-maps to identify base, peak and trough patterns
3. Map ToD tariff slabs against actual consumption to quantify current ToD arbitrage losses
4. Run RE-fit simulations overlaying solar-only, wind-only and hybrid generation profiles against the load curve
5. Assess captive/group-captive eligibility, open-access feasibility and banking regulations for the host state
6. Size the optimal RE capacity mix (MW) and contract structure (firm, must-run, peak-shaving) with sensitivity ranges
7. Present findings with a recommended sourcing envelope to carry into the next stage

Outcomes

- Clear, data-backed target capacity range and RE mix before entering the market
- Quantified current ToD losses translated into avoidable cost opportunity
- Reduced risk of over/under-contracting in the eventual PPA
- A validated regulatory and structural pathway (captive/OA/group-captive) per site

Want this for your project? Write to info@growthifye.com or use the Contact page — we will scope the real deliverable set for your capacity, state and lender requirements.