Generation options evaluation worksheet

1. Define the application and compare operating requirements

Utility / site: _____ **Prepared by / date:** _____

Application / connection point: _____

Compare any generation or hybrid configurations against the same duty. Enter units, conditions and source IDs; mark unknowns “evidence needed.” Complete on screen or print. Use another copy for more options.

Option A: _____ **Option B:** _____

Evaluation prompt	Site requirement	Option A: findings / source	Option B: findings / source
1. Capacity / net output Net kW at agreed electrical point; peak / minimum load; auxiliary demand and site derating. For storage or hybrids, record usable kWh too.			
2. Dispatch / startup Dispatch hours; cold / warm start time; online ramp; minimum stable output; load steps and reactive power.			
3. Outage duty Outage hours and energy; interruption tolerance; islanding / black start; load pickup and loss of a resource.			
4. Fuel / water dependencies Fuel quality, pressure, flow and resupply; water flow, quality and treatment; startup inputs and supply-loss contingency.			
5. Site infrastructure Full footprint and clearances; cooling / exhaust; fuel and water equipment; access, safety and permitting constraints.			

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2. Compare integration, operating support and evidence

Site / application: _____ **A / B configurations:** _____

Evaluation prompt	Site requirement	Option A: findings / source	Option B: findings / source
6. Interconnection Voltage and export; one-line / protection; metering and communications; islanding / reconnection approvals; controls and tests.			
7. Operating support Staffing / training; service coverage; maintenance, downtime, parts and consumables; commissioning and acceptance owners.			
8. Evidence / readiness Dated net-output / duty-cycle data; tested configuration, conditions and duration. Label measured results, estimates, projections and plans. Confirm delivery / support readiness.			

H2PWR Systems™: RPW lists planned 250 kW, 500 kW and 1 MW sizes. Planned ratings and readiness are not demonstrated net output or site-duty performance; request the proposed configuration's evidence. [3]

Open issue / evidence to request / owner / next review:

Technical references — click a title; record the relevant document, revision and page in each option column.

[1] NREL: Microgrids for Energy Resilience (rev. Jan 2020) — load, outage and fuel planning.

[2] NREL: Interconnection Rules and IEEE 1547 (Oct 2021) — protection, modes and agreements.

[3] RPW: H2PWR Systems — configuration and planned sizes; company statements.

Apply the serving utility's current requirements; the references do not establish project approval.

Discuss site fit with Resilient Power Works. Send the application, duty and open questions to **resilient-power-works@brainer.one**