|  |  | **Add ESS to Existing Resource with Self-Limit** | | | **New Large Generator** | | | | | **New Small Generator** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **GINR Phase** | **GINR Milestones and Studies** | **Adding ESS to the existing Site (AC Coupled1)** | **Adding ESS to Existing Solar with Grid Charging (DC Coupled)** | **Adding ESS to Existing Solar w/o Grid Charging (DC Coupled with no inverter changes)** | **Regular – meeting 5.1.1(1)(a)** | **Repower – relating to 5.1.1 (1)(b)(ii)** | **Self-Limiting single Resource meeting 5.1.1(1)(a)** | **DC Coupled – self-limiting multiple resources using same inverters - PG change needed** | **AC Coupled – self-limiting multiple resources with separate inverters – PG change needed****[[1]](#footnote-1)** | **Transmission Connected <10 MW GR- PG change needed**  **Transmission Connected <10 MW SO- PG change needed**  **Distribution Connected GR - PG change in progress**  **Distribution Connected SO - PG change needed** |
|  | Column Identifier | A | B | C | D | E | F | G | H | I |
| Interconnection Request Application to QSA | GINR Application and Fees | YES | YES | YES | YES | YES | YES | YES | YES | NO |
| Security Screening Study | NO | NO | NO | YES | YES3 | YES[[2]](#footnote-2) | YES2 | YES2 | NO |
| Full Interconnection Studies | SS at Pmin, SC, Stability | SS at Pmin, Stability as needed | NO | YES | YES[[3]](#footnote-3) | YES2 | YES2 | YES2 | NO |
| Sub-synchronous Resonance Study | YES | YES as needed | NO | YES | YES | YES | YES | YES | NO |
| Standard Gen IA | YES | YES | YES | YES | YES | YES2 | YES2 | YES2 | NO |
| Resource Asset Registration Forms | YES | YES | NO | YES | YES | YES[[4]](#footnote-4) | YES4 | YES[[5]](#footnote-5) | YES |
| Compliance with Operational Standards | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Reactive Study | YES[[6]](#footnote-6) | YES | NO | YES | YES | YES[[7]](#footnote-7) | YES6 | YES | NO |
| Quarterly Stability Assessments | YES | YES as needed | NO | YES | YES | YES | YES | YES | NO |
| Registration and Modeling | RE Registration | NO[[8]](#footnote-8) | NO7 | NO7 | YES | YES | YES | YES | YES1 | YES |
| RARF/RIOO | YES5 | YES5 | YES | YES | YES | YES | YES9 | YES5 | YES |
| Network Modeling Requirements | YES5 | YES5 | YES[[9]](#footnote-9) | YES | YES | YES[[10]](#footnote-10) | YES9 | YES5 | YES |
| ERCOT Polled-Settlement Meters | YES[[11]](#footnote-11) | YES11 | NO | YES | YES | YES | YES[[12]](#footnote-12) | YES | YES |
| ESI ID Requirements | NO | NO | NO | YES | YES | YES | YES | YES | YES |
| Telemetry and ICCP Requirements | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Energization, Synchronization & Commissioning | Request to Energize POI | YES | YES | NO | YES | NO | YES | YES | YES | YES |
| **Streamlined[[13]](#footnote-13)** Commissioning Plan Template | YES | YES | YES[[14]](#footnote-14) | NO | NO | NO | NO | NO | NO |
| **Streamlined** New Generator Commissioning Checklist | YES | YES | YES | NO | NO | NO | NO | NO | NO |
| Part 1: Request to Commission a Point of Interconnection (**Streamlined)** | YES | YES | N/A | NO | NO | NO | NO | NO | NO |
| Part 2: Request for Initial Synchronization (**Streamlined)** | YES | YES | N/A | NO | NO | NO | NO | NO | NO |
| Part 3: Request to Commission a Resource **(Streamlined)** | YES | YES | N/A | NO | NO | NO | NO | NO | NO |

1. IE must submit attestation and details of the physically-limiting elements or power plant controller that will enforce limit [↑](#footnote-ref-1)
2. MW capability based on HRL or physically-limiting elements/power plant controller [↑](#footnote-ref-2)
3. Screening and Steady State studies may not be necessary if MW change is less than 10 MW [↑](#footnote-ref-3)
4. Full capability will be modeled everywhere except HRL which will reflect the self-limiting value [↑](#footnote-ref-4)
5. Full capability will be modeled everywhere [↑](#footnote-ref-5)
6. Reactive Study is needed if an existing site is IRR, maybe not needed if thermal [↑](#footnote-ref-6)
7. Reactive capability requirement based on self-limit entered as HRL [↑](#footnote-ref-7)
8. RE should already be registered. Only the new resource will need to be registered. [↑](#footnote-ref-8)
9. Interim update possibility since a new separate unit does not need to be modeled [↑](#footnote-ref-9)
10. Full capability of all units required except for HRL [↑](#footnote-ref-10)
11. If WSL treatment is requested. [↑](#footnote-ref-11)
12. WSL treatment not allowed due to lack of DC ANSI approved meters [↑](#footnote-ref-12)
13. Streamlined is defined as “undetermined subset of current commissioning process” [↑](#footnote-ref-13)
14. All that needs to be captured/commissioned is new telemetry from battery, otherwise this shouldn’t look any different that an solar farm changing out some solar panels [↑](#footnote-ref-14)