# New York Joint Utilities Links to DER Interconnection Technical Documentation

## **NYSEG/ RGE**

[NYSEG/RG&E Default IEEE-1547 Smart Inverter Settings](https://www.nyseg.com/documents/40132/5899056/NYSEG%2BRGE+Default+IEEE-1547+Smart+Inverter+Se_NYSEG+11.15.22.pdf/9c718764-5a3c-31d5-ff58-52ea93fa9fd2?t=1668692866872)

Interconnection Online Application Portal: [online portal - NYSEG](https://www.nyseg.com/smartenergy/innovation/distributedgeneration/online-portal)

## **Orange and Rockland**

[Interconnection Handbook (azureedge.net)](https://cdnc-dcxprod2-sitecore.azureedge.net/-/media/files/coned/documents/save-energy-money/using-private-generation/applying-for-interconnection/interconnection-handbook.pdf#page=[16])

Inverter Based DER settings are listed in Section 6.4 of the Interconnection Guidelines. This section is currently in the process of being updated to include the new smart inverter requirements.

Interconnection Online Application Portal: [Login (powerclerk.com)](https://oru-greaterthan50kw.powerclerk.com/MvcAccount/Login?ReturnUrl=%2fMvcProjects%2fProjectList%3fProgramId%3dYWJ3CXRGUYD7&ProgramId=YWJ3CXRGUYD7)

Jan 1, 2023 Smart inverter requirements are under **O&R Smart Inverter Settings** link

## **Central Hudson Gas and Electric**

Link to smart inverter settings directly: [CenHud\_Smart\_Inverter\_Settings\_Required\_20230101.pdf (powerclerk.com)](https://cenhuddg.powerclerk.com/Library/Public/User_Notifications/CenHud_Smart_Inverter_Settings_Required_20230101.pdf)

Interconnection Guidelines: [Microsoft Word - Interconnection Guidelines 2019-12.docx (cenhud.com)](https://www.cenhud.com/globalassets/pdf/my-energy/dg/interconnection_guidelines_2019_12.pdf)

Requirements related to Inverter-Based DER are listed within Section IV.A.9 of the above document. This section is currently in the process of being updated to include the new smart inverter requirements. Central Hudson has included a message on its IOAP to make it clear that the smart inverter requirements are effective 1/1/23 and provided the list of tables and required setpoints.

IOAP: [Login (powerclerk.com)](https://cenhuddg.powerclerk.com/MvcAccount/Login)

## **National Grid**

**Current Voltage and Frequency Setpoints:** [National Grid ESB 756B Table 7.6.11-1 Default Voltage and Frequency Setpoints](https://urldefense.com/v3/__https:/gcc02.safelinks.protection.outlook.com/?url=https*3A*2F*2Fwww.nationalgridus.com*2Fmedia*2Fpronet*2Fshared_constr_esb756.pdf*23page*3D68&data=05*7C01*7CJason.Pause*40dps.ny.gov*7Cbdd1f3446d78461a2f6d08dac28d8a45*7Cf46cb8ea79004d108ceb80e8c1c81ee7*7C0*7C0*7C638036210563514653*7CUnknown*7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0*3D*7C3000*7C*7C*7C&sdata=*2F8oZTTsFPRL8gSEBuzj4GlBezo3qgzlwZvk6Sc4iQC0*3D&reserved=0__;JSUlJSUlJSUlJSUlJSUlJSUlJSUlJSUlJQ!!B3hxM_NYsQ!wgKec8qcmY_4mcqszQuOV_WXDIvgvH0ueHrAICW9mHVm_0Y1YaeyDR0n6YF-rKoAtgd-ScnSagkeXrLR959TncSf6GysroPj5WAegw$)

**Current Voltage and Frequency Ride Through and Control Requirements**: [National Grid ESB 756B Section 7.8 Voltage and Frequency Ride Through and Control Requirements](https://urldefense.com/v3/__https:/gcc02.safelinks.protection.outlook.com/?url=https*3A*2F*2Fwww.nationalgridus.com*2Fmedia*2Fpronet*2Fshared_constr_esb756.pdf*23page*3D74&data=05*7C01*7CJason.Pause*40dps.ny.gov*7Cbdd1f3446d78461a2f6d08dac28d8a45*7Cf46cb8ea79004d108ceb80e8c1c81ee7*7C0*7C0*7C638036210563670033*7CUnknown*7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0*3D*7C3000*7C*7C*7C&sdata=OgCW5LZyN9B4k9FZq1uwObtgUaY*2FJNW*2FwH*2BO6KAFOF4*3D&reserved=0__;JSUlJSUlJSUlJSUlJSUlJSUlJSUlJSUlJSUl!!B3hxM_NYsQ!wgKec8qcmY_4mcqszQuOV_WXDIvgvH0ueHrAICW9mHVm_0Y1YaeyDR0n6YF-rKoAtgd-ScnSagkeXrLR959TncSf6GysroMti-NTtg$)

National Gid is currently in the process of updating the appropriate sections to include the new smart inverter requirements. NEW Voltage and Frequency setpoints will be inserted under **Table 7.6.11.1-2 “Utility Grade Relay and UL 1741 SB Certified Inverter Parallel Generation Default Voltage & Frequency Setpoints.”** NEW Default inverter mode settings will be shown in **Table 7.8.2.2-1 “Default Mode Settings for Inverter based Utility Interactive DER.”** National Grid is including a message on its DG landing page to make it clear that the smart inverter requirements are effective 1/1/23 and provided the list of tables and required setpoints. The document named **“National Grid Smart Inverter Default Setpoints Jan\_2023”** will be linked to <https://ngus.force.com/s/article/NY-BUSINESS-Interconnection-Documents>

**Interconnection Online Application Portal**: [National Grid nCAP portal](https://ngus.force.com/s/ny-home)

## **Con Edison**

**Con Edison guides and specifications for private generation**: ([Link](https://www.coned.com/en/save-money/using-private-generation-energy-sources/specifications-for-private-generation))

**Con Edison requirements for smart inverters and synchronous machines to comply with IEEE 1547-2018 and 1547a-2020:** ([Link](https://cdne-dcxprod-sitecore.azureedge.net/-/media/files/coned/documents/save-energy-money/using-private-generation/specs-and-tariffs/ieee-1547-2018.pdf?rev=4c2bd8b930474b8faaba2fd84945bf8d&hash=585D32787A9838156A2621BA71D382D3))

Note: Con Edison will be phasing in the implementation of IEEE 1547-2018 and 1547a-2020. For inverter-based systems, the default settings shall be input on UL 1741 SB certified smart inverters interconnecting to the Con Edison Electric System with Interconnection Application Acceptance Dates on or after April 1st, 2023, for systems >50kW, and on or after June 1st, 2023, for systems ≤ 50kW.