

A Guide to (S.S.E G) Small Scale Embedded Generation

For micro-generation and projects up to 50 Kw output

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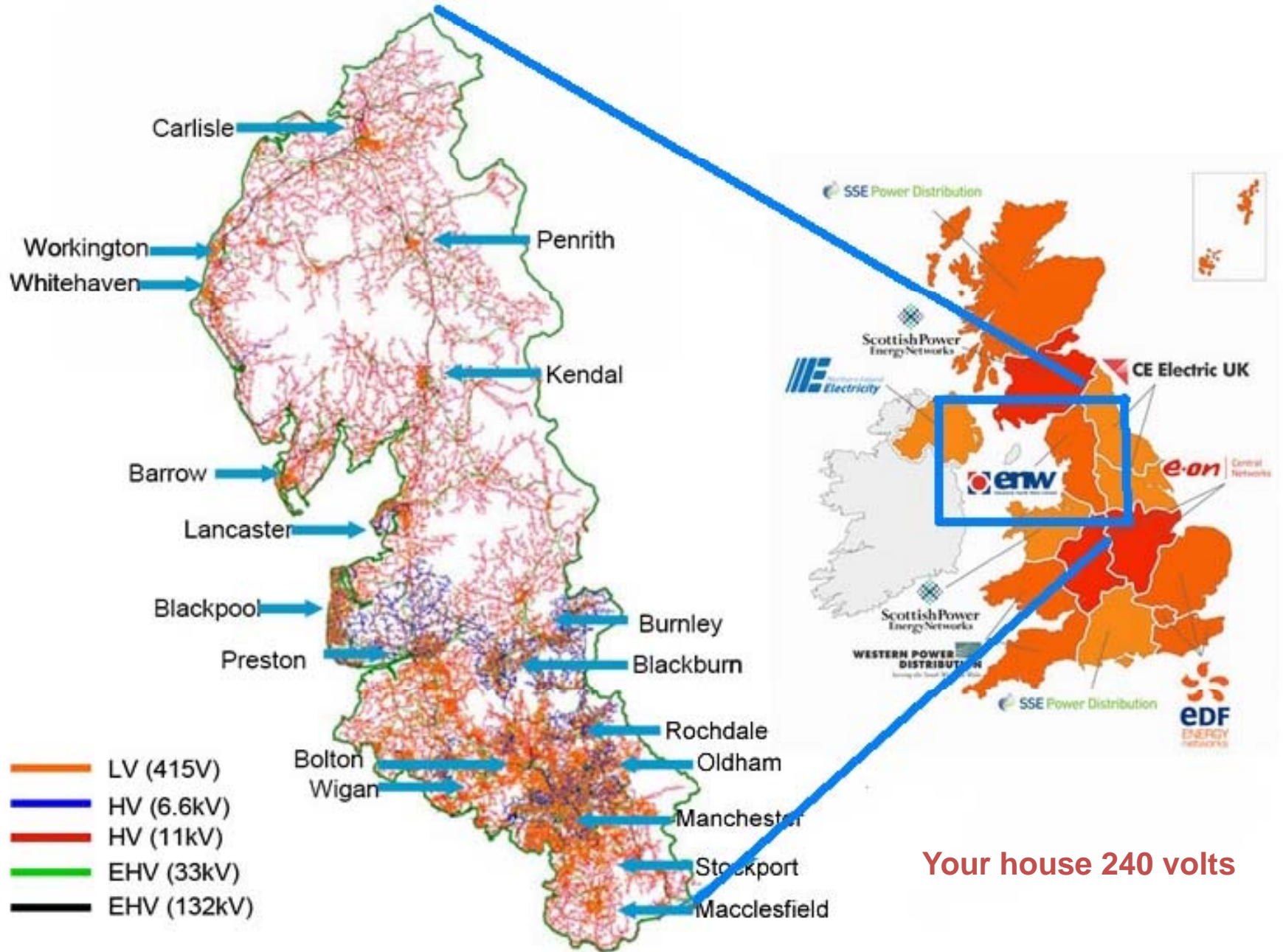
Envirolink Northwest

New opportunities

Feed- in Tariffs

- The largest financial incentive scheme
- Aimed at encouraging the development of renewable energy
- Guaranteed return for a 20 year period

ENW (UU) DNO The Distribution Network Owner



Your house 240 volts

Grid Connectivity Planning

What you must have

- A competent and approved Contractor
- The correct design and technology choice for your existing single phase or 3-phase supply
- A connection facility with the existing electrical installation.
- A connection contract with the DNO if required
- A meter fitted to record the energy generated
- A energy contract including a import/export meter

Grid Connectivity Planning

Micro-generation projects (16 amps per phase)

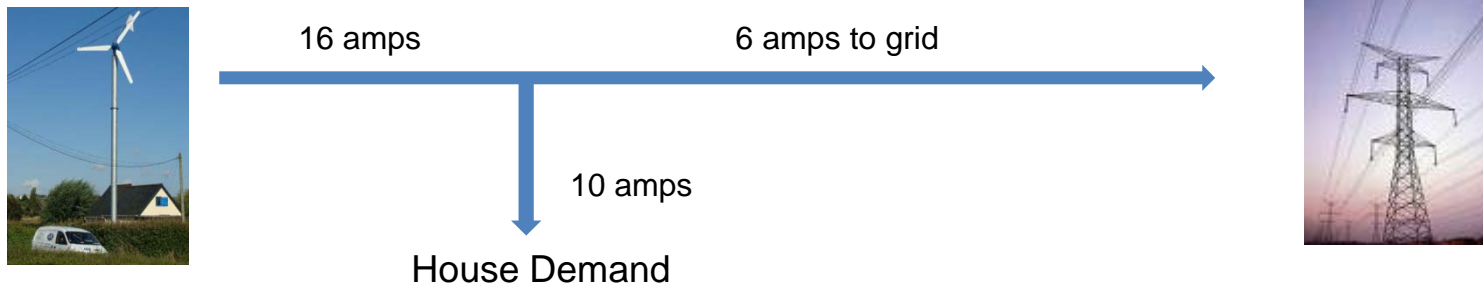
What you must comply with

- Maximum generation connection 4 kW single phase, or 12 kW 3-phase.
- For one project you can go ahead and carry out your installation work, must comply with G83 Engineering document and must notify your DNO within 30 days of completion.
- Most projects will be connected into the existing electrical installation.
- Additional costs for upgrading the supply to 3-phase
- For several projects in one area you must first write to the DNO for approval.

How big is 16 amps ?

what happens to the electricity I generate ?

- kettle 4 amps
 - Toaster 2 amps
 - Iron 2 amps
 - Hoover 3 amps
 - 8 Kw shower 34 amps
- The generated electricity is used by your installation, this reduces your demand from the Grid, the surplus is export to the Grid and you electricity supplier will pay you for it.



Grid Connectivity Planning

Projects exceeding 16 amps per phase

For a project to be Grid connected you will need permission for connection and operation, and must:

- Have a Connection Agreement with your DNO
- You may have to comply with G59 engineering recommendations

- The Distribution Network Operators (DNO's) for England Northwest are:
 - Electricity North west (UU)
 - Scottish Power

- Further information is available on request

Thank you

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