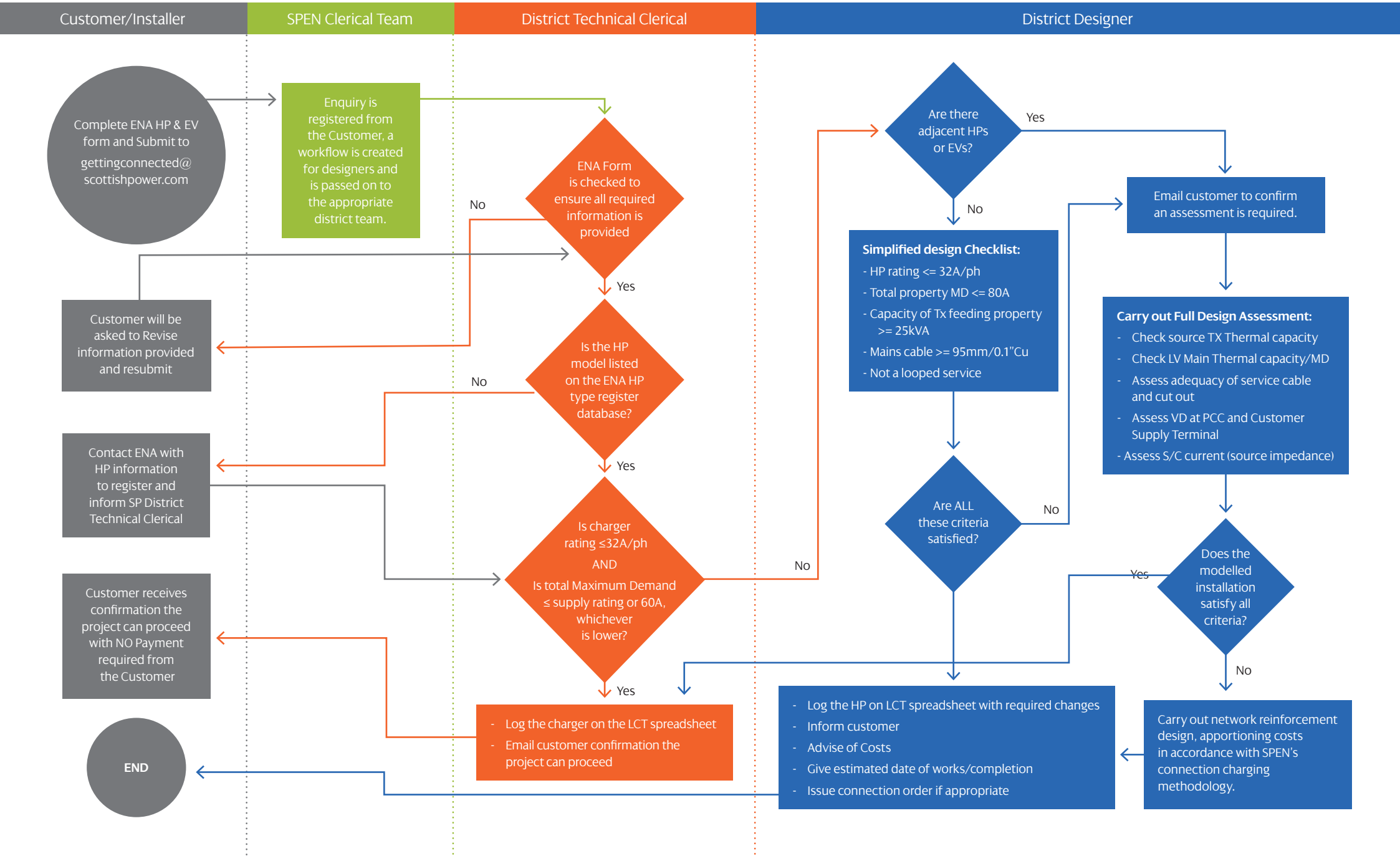
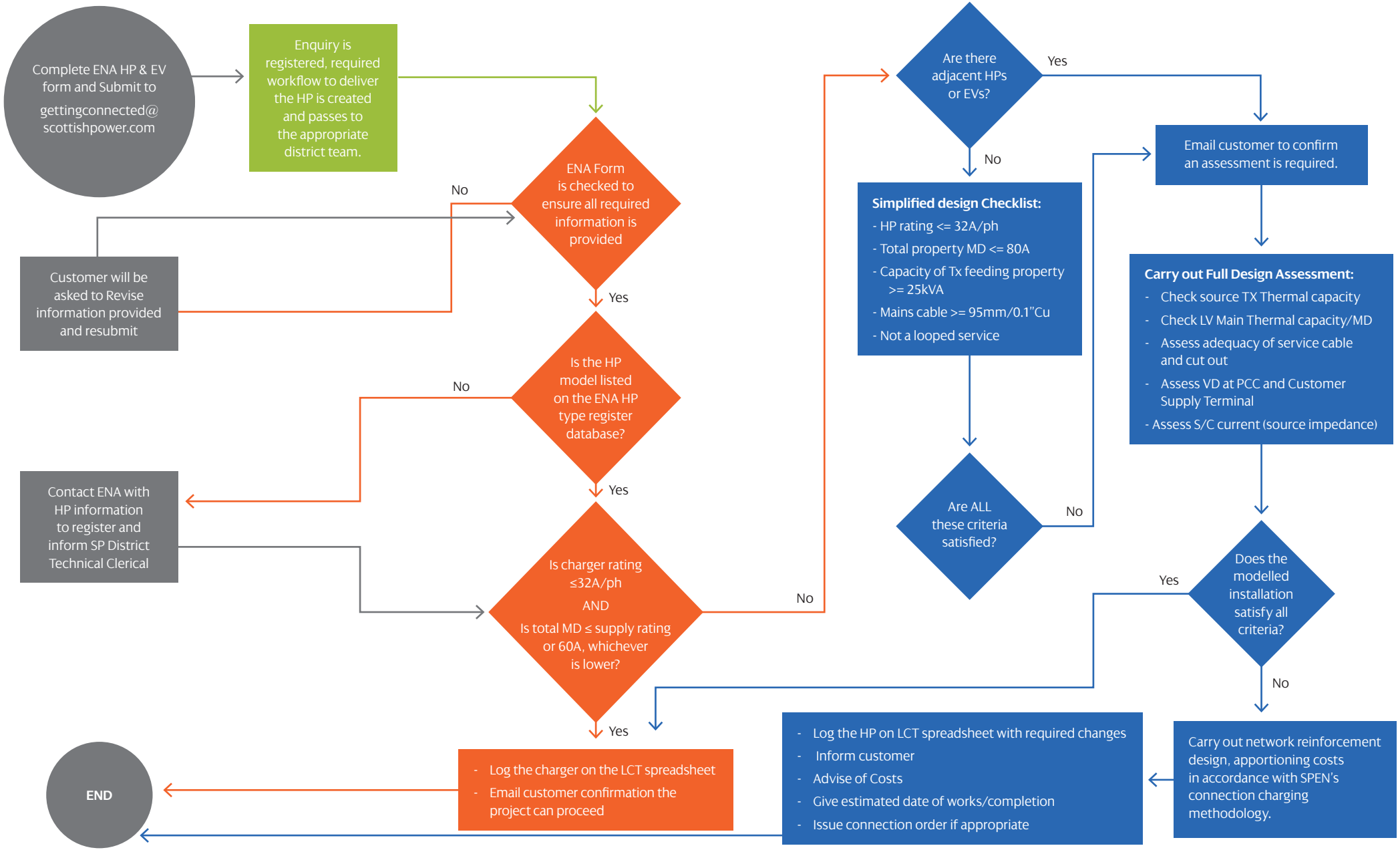
SP Energy Networks Process for Assessment and Design of Heat Pump (HP) System in Domestic or Small Commercial Premises

SP ENERGY NETWORKS




Complete ENA HP & EV form and Submit to gettingconnected@scottishpower.com
Enquiry is registered, required workflow to deliver the HP is created and passes to the appropriate district team.
ENA Form is checked to ensure all required information is provided
No
Customer will be asked to Revise information provided and resubmit
Yes
Is the HP model listed on the ENA HP type register database?
No
Contact ENA with HP information to register and inform SP District Technical Clerical
Yes
Is charger rating ≤32A/ph
AND
Is total MD ≤ supply rating or 60A, whichever is lower?
No
Yes
Are there adjacent HPs or EVs?
Yes
No
Simplified design Checklist:
- HP rating <= 32A/ph
- Total property MD <= 80A
- Capacity of Tx feeding property >= 25kVA
- Mains cable >= 95mm/0.1"Cu
- Not a looped service
Are ALL these criteria satisfied?
No
Email customer to confirm an assessment is required.
Carry out Full Design Assessment:
- Check source TX Thermal capacity
- Check LV Main Thermal capacity/MD
- Assess adequacy of service cable and cut out
- Assess VD at PCC and Customer Supply Terminal
- Assess S/C current (source impedance)
Does the modelled installation satisfy all criteria?
Yes
No
Carry out network reinforcement design, apportioning costs in accordance with SPEN's connection charging methodology.
- Log the HP on LCT spreadsheet with required changes
- Inform customer
- Advise of Costs
- Give estimated date of works/completion
- Issue connection order if appropriate
- Log the charger on the LCT spreadsheet
- Email customer confirmation the project can proceed
END