

Take extra mains to charge batteries at max.
(Firstphasemains_needed =
emergencyphase1-totalrenewable).
Supply first phase loads.

Calculate how much to
power emergency phase 2

renewables >= emergencyphase2

Charge the required from
batteries.
Pull 0.0 from mains.
Supply emergencyphase2

Take extra mains to charge batteries at max.
(Secondphasemains_needed =
emergencyphase2-totalrenewable).
Supply second phase loads.

Calculate how much we can still charge the batteries.
(Chargable = 3.0 - emergencyphase2).
Take 3.0 from mains
Supply second phase loads

(Else)

renewables < emergencyphase2

Check if 3.0+renewables
>= emergencyphase2

No

Yes

Check how much extra
mains we need

>=0 && <=2.0

>2.0 && <=3.0

Else

Calculate how much we
need to discharge to
supply

Else

<=1.0

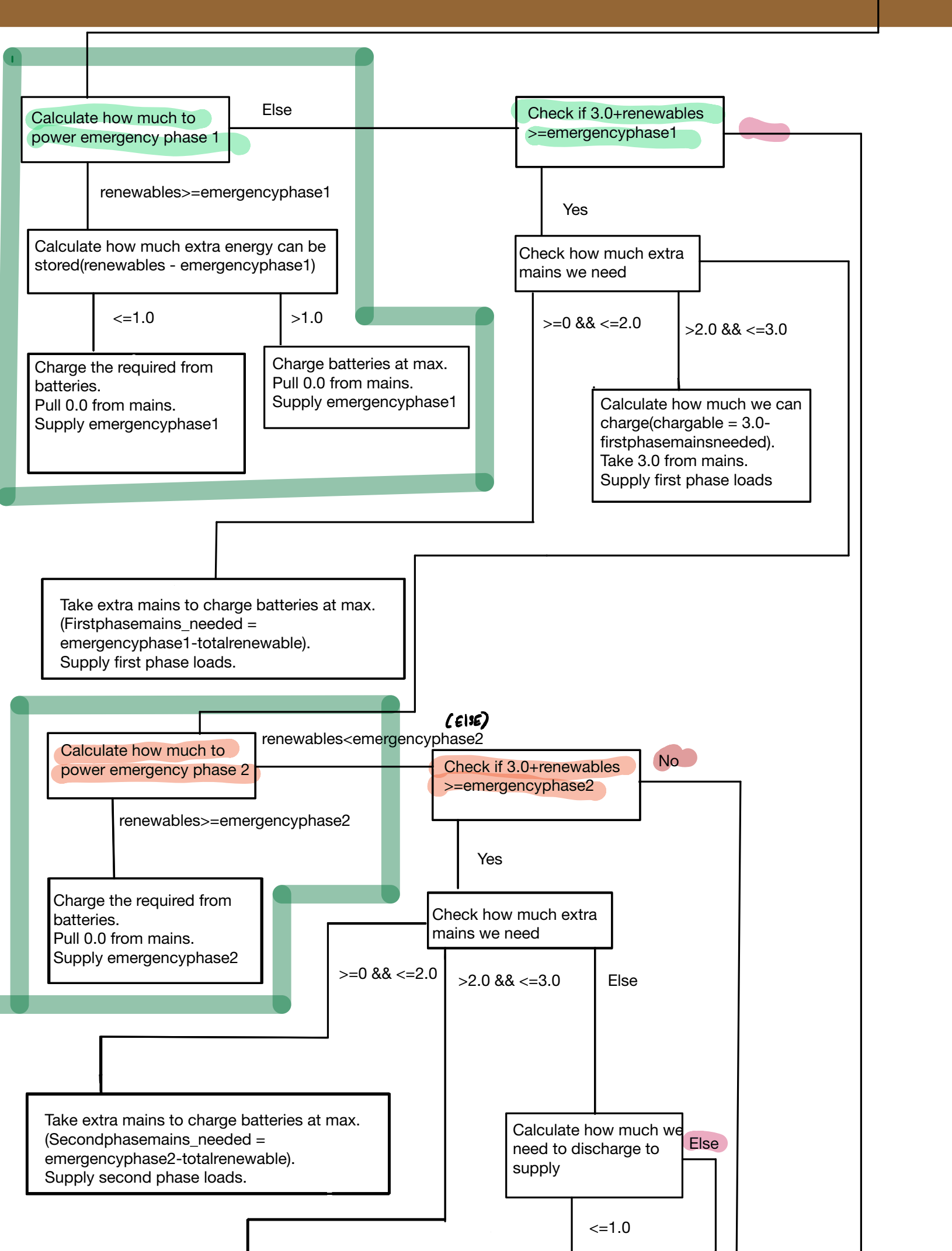
Discharge the
amount.
Take mains 3.0
Supply phase 2

Dont discharge anything.
Dont supply anything.
Dont take any mains.

Dont discharge anything.
Dont supply anything.
Dont take any mains.

Supply phase 1
Take phase 1 from grid
//makes sense cuz if grid
never gets cut off, it will
always be enough.
Dont charge or discharge
battery

= phase 1 (load 1 & 2)
= phase 2 (load 1)
= phase 3 (no loads)



Calculate how much we can still charge the batteries.
(Chargable = 3.0 - emergencyphase2).
Take 3.0 from mains
Supply second phase loads

Discharge the
amount.
Take mains 3.0
Supply phase 2

Dont discharge anything.
Dont supply anything.
Dont take any mains.

Dont discharge anything.
Dont supply anything.
Dont take any mains.

Supply phase 1
Take phase 1 from grid
//makes sense cuz if grid
never gets cut off, it will
always be enough.
Dont charge or discharge
battery