RURAL ASSOCIATES

Planning, Procurement, Project Co-ordination
Agricultural and Rural
Yapton Lodge North End Road
Yapton Nr Arundel
West Sussex BN18 0DT
[redacted]

GTR New Site Arundel Road Fontwell

Decentralised Energy Statement

GTR are very conscious their electrical consumption for both the on effect on their carbon footprint and general carbon produced when generating energy by unrenewable production processes.

GTR,s existing production units are not suitable the installation any form of alternative energy so until recently had produced a percentage of their own electrical energy with large Diesel Engine Powered Generators but now buy all their energy the major suppliers

With an estimate electrical requirement of 500kva **(Appendix 1)** GTR have designed the proposed new factory in ways to reduce their carbon footprint one of these is to be less reliant on bought in energy. To these ends GTR will be installing 574 1.7mx1mroof mount Solar PV Panels. **(Appendix 2).** The area of roofing when covered with Solar Panels will be capable of producing up to 150kw (about 120kva 1kv = 0.8 of 1kva) which is well above the 10% required. It should notated that should any modification to design of building be required this could reduce the design capacity of panels

It is anticipated the panels would be installed during the construction process and going live completion of the works.

With its proximity to coast the proposed site could also benefit from energy produced by wind and subject to relevant consents would be considered.

ARUN DISTRICT COUNCIL BN/57/19/RES

Appendix 1

Power requirements for new factory

gtr ltd

1,	three phase start loading	soft start total 120 amps compressers,	86KW	12-16 starts per hour
2,	three phase heat load tyrister driven	200amps total	143KW	running 10 hours per day
3	single phase lighting	66 amps total	15.8 KW	running 12 hours per day
4	single phase offices and general	180 amps total	43 KW	runnig 15 hours per day

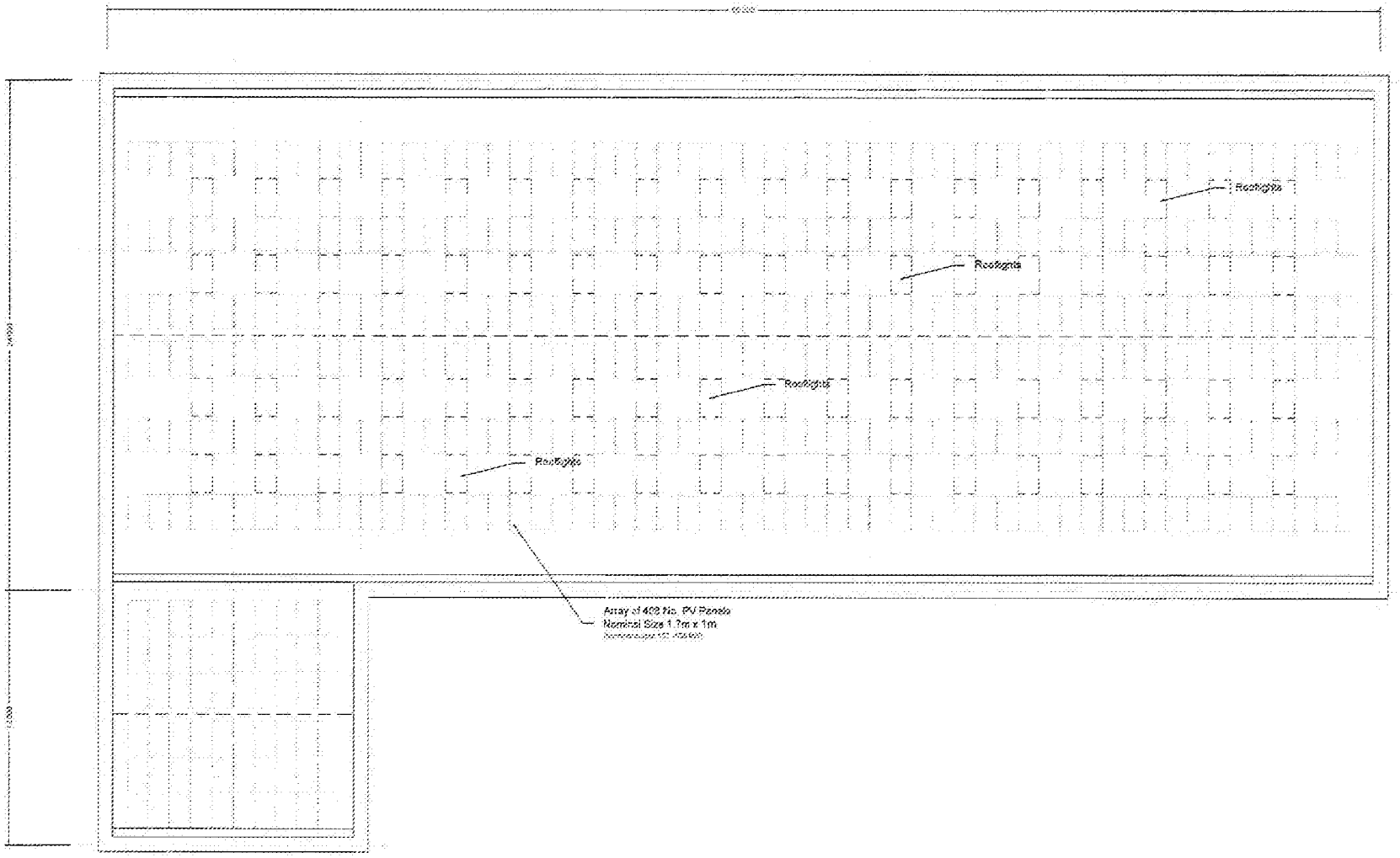
we need a total of 500 KVA incoming at three phase to site

ARUN DISTRICT COUNCIL BN/57/19/RES

ONLY SCALE FOR PLANNING PURPOSES

Appendix 2

2.1 PV panels array building A



PLANNING ISSUE

Decentralised Energy Statement

WEALDEN
4/5 North Road, Ecclesbourne Green
Hailsham, East Sussex, BN27 4RG
Tel: 01323 833088 Mobile: 07890 588181
E-mail: office@wealden.com

PROJECT TITLE
GTR
Arundel Road
Fontwell, Walberton
West Sussex, BN18 0SB

DRAWING
Proposed New Factory
Unit "A"
Roof Plan

NO.	REVISIONS	DATE

SCALE
1 : 100 on A1
1 : 150 on A2

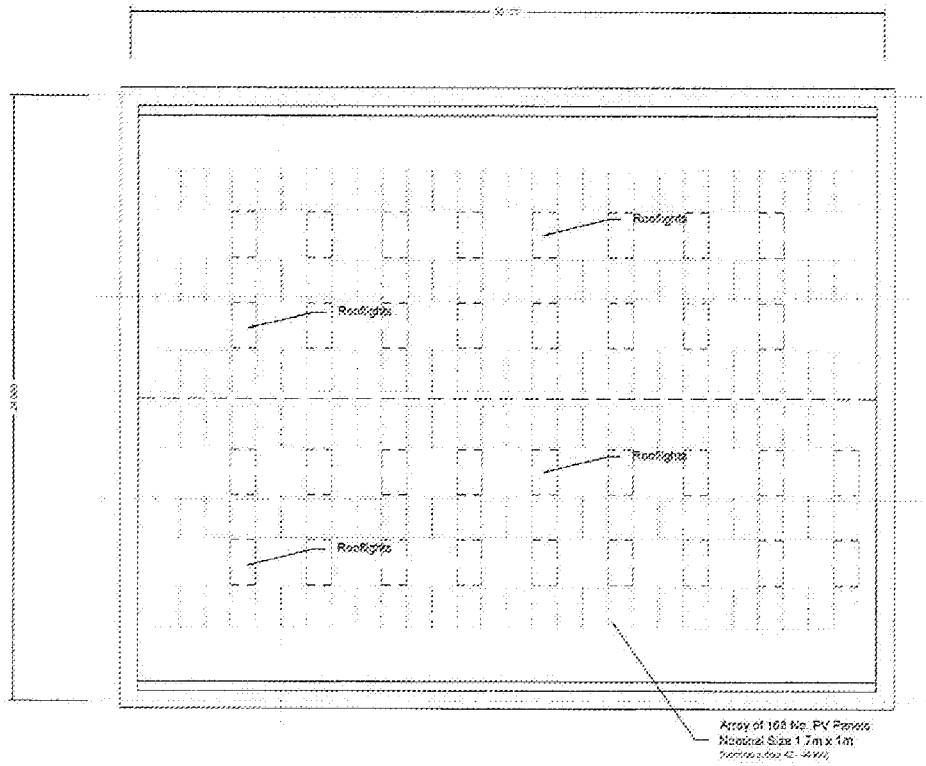
DRAWN
SW

DATE
23/06/20

DRAWING No.
WW/627/14

ARUN DISTRICT COUNCIL BN/57/19/RES

ONLY SCALE FOR PLANNING PURPOSES



Appendix 2

2.2 PV panels array building B

Decentralised Energy Statement

PLANNING ISSUE

WEALDEN

45 North Road, Bolde Street Green
Hailsham, East Sussex, BN27 4RG
Tel: 01323 833055 Mobile: 07836 338161
E-mail: office@wealdenem.com

GTR
Arundel Road
Fontwell Westbenton
West Sussex, BN18 0SB

Proposed New Factory
Unit "B"
Roof Plan

No.	Description	Date	By

1 : 100 on A1
1 : 150 on A2

RAK

25-05-22