July 31, 2024

To: Adur and Worthing Planning

REF: AWDM/0785/24

FROM: Adur Residents' Environmental Action

Barb O'Kelly Chair

AREA are writing to add to our previous objection to the change in roofline of Block B from a pitched roof to a flat roof.

If the developers were really concerned about increasing the amount of electricity generated by the solar panels they would have the pitch of the southernmost roof at 30 degrees (considered to be the optimal pitch) and the pitch of the other roof at 35-40 degrees. The lower pitch on the southernmost roof would allow more roof space for panels and would result in less shading of the roof on the north side. This would allow both roofs to be exposed to the sun for a longer period of time thus generating more electricity.

Other things to consider:

The effect of wind on flat roof solar panels because they are not laying close to a surface.

The efficiency of dealing with pooling on flat roofs when they are covered with solar panels

Has the weight of the ballasts needed to stabilise solar panels been taken into account when considering the load on the roofs.

Flat roof systems take up more space per kW than on-roof photovoltaic systems because there must be separation between rows of the PV panels in order to prevent one row from shading another. (Deegesolar)

Has the developer included the calculations of how many solar panels would be fitted on the flat roof system as compared to the pitched roof?

Please consider these additional points when coming to your decision about the changes put forward by Hyde Homes.

Sincerely,

Barb O'Kelly

Chair Adur Residents' Environmental Action