

Collection, storage vital components

THE components of an efficient solar house are collection, storage, distribution and control of sunlight.

This is the opinion of prominent solar designer-architect, Garry Bayerstock, who heads Tectoprojects of South Perth.

"These factors will be uppermost in our minds when we design a display house to be built on the Kingsley Solar Estate next year," he said.

"The purpose of designing a passive solar house is to achieve stable internal living comfort without the extremes of summer heat and winter cold.

"If this can be achieved then a low cost energy factor for heating and cooling is enjoyed by the owner.

"I have accumulated eight years of research data on summer and winter conditions from Thursday Island to Hobart and Derby to Sydney which will soon be published in book form.

"This will enable architects and designers to gain accurate details of optimum window sizes and other vital information for any given aspect in any location to create the most energy efficient building design — all from a foolscap sheet of paper.

"We will be using these charts and graphs when designing the Kingsley house.



Solar feature

"I have not yet fully studied the blocks on the Kingsley Solar subdivision for their aspect in relation to due north and have yet to cross reference the sites with our charts and graphs.

I can only hope the subdivision has had the important subject of aspect considered.

POSITION

"A mistake many developers make when they sub-divide a parcel of land is to go for aesthetics and outlook rather than consider the best positioning of blocks to accommodate the future



The architectural design of solar housing does not need to be 'anything out of the ordinary' as illustrated and pictured above . . . it just needs sensible planning.

building of passive solar premises.

"This is an important factor all too often overlooked even considering the relatively mild climate extremes of the metropolitan area.

"The further South one goes so, the solar controll-

ing of heating becomes more important, while northern climes requires attention to daytime cooling.

"This is why the factors of storage, distribution and control are very important in passive solar building design," he said.