

Improve



CONCEPT

in-need

at-risk

part of ZEMCH COMMUNITY part of the Australian SOCIETY -



CONCEPT IDEA

Our approach considers the delivery of zero energy mass customisable homes for people that are at-risk or in-need. In addition to the dwellings providing shelter, we have also pursued an approach that sees the creation of a place that provides economic opportunity and fosters social inclusivity. Whilst residents will occupy this community in a temporary capacity, maybe from 6 months to 2 years, they will eventually depart having gained new skills, demonstrated their economic potential and being accepted into the wider social community. Our approach has been to consider how the residents may interact and how these orchestrated interdependencies will create a resilient community.

PROTOTYPE

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## **Eval MATRIX**

ZEMCH Plug-In

Community





DESIGN CODE



ECONOMIC SHARED SPACES



ORIENTATION





SURPLUS ENERGY



INTERDEPENDENCIES

**GENERAL PLAN** 



COMMUNITY INFILTRATION



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## DEMONSTRATION AND TIME

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M3\_demand energy PV generation Pavement generation



M1\_demand energy M2\_demand energy

■ M3\_demand energy ■ PV generation

Pavement generation

total demand energy Total building energy with

M1\_demand energy M2\_demand energy M3\_demand energy PV generation Pavement generation

-15000

#4



IMAGES





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