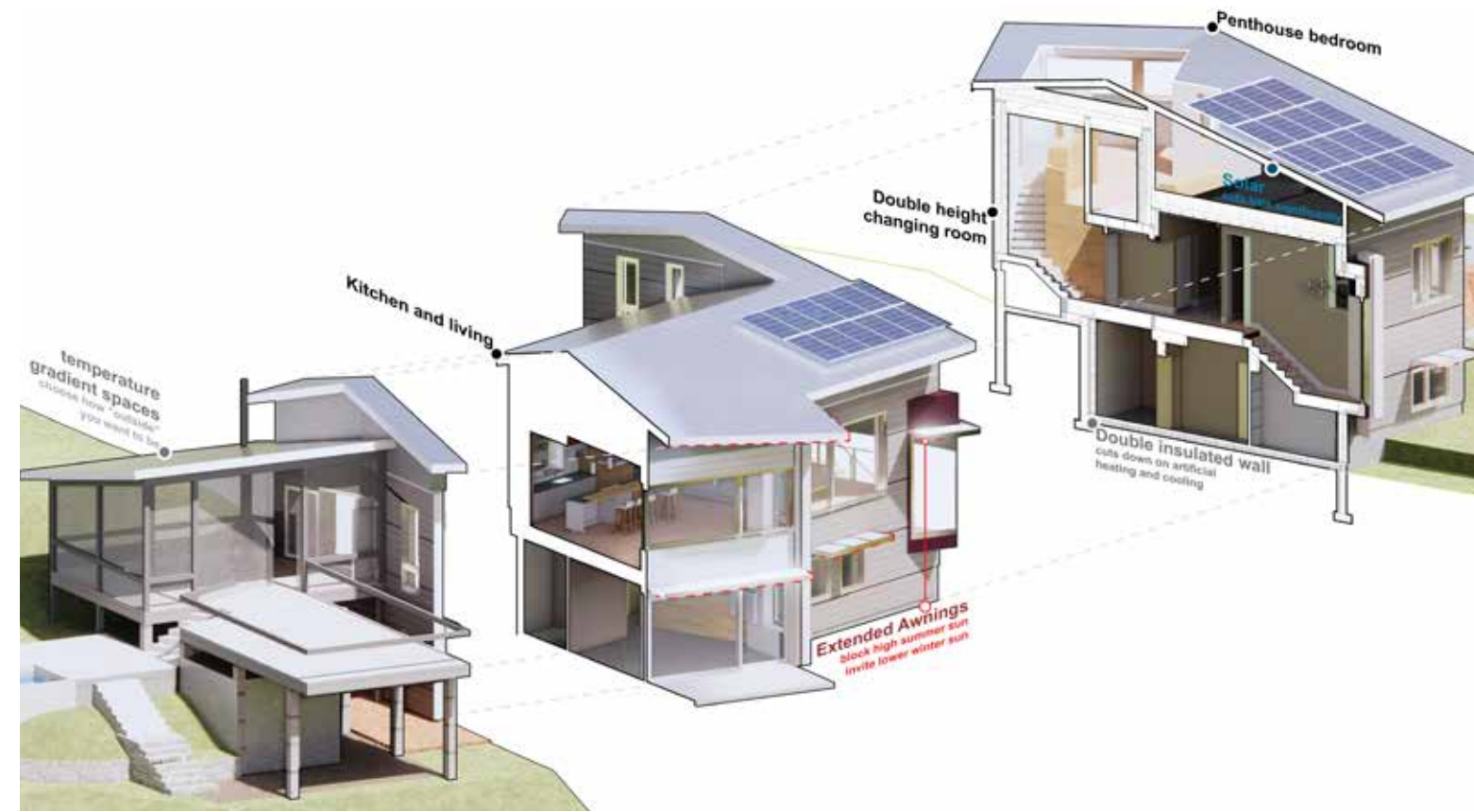




NET ZERO FAMILY RETREAT

Passive solar, photo-voltaic, super insulation, super tight envelope, minimal use of foam, no on-site carbon fuels, fully integrated with sloping site. Walls angle and change direction in response to the views, the sun and the changing slope of the landscape.

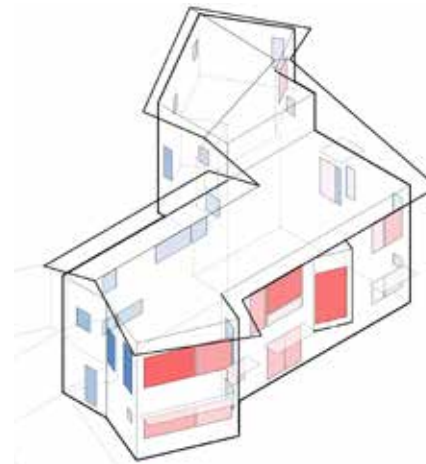


MINIMIZE east and west facing windows

LIMIT TO NO north facing windows



WINDOW HEAT GAINS/LOSSES: SUMMER



WINDOW HEAT GAINS/LOSSES: WINTER

MAXIMIZE south facing windows with appropriate overhangs/sun shading for summer solar gain