2016 CITATION

Jayna McClaran

LYCEUM

A traveling fellowship in Architecture

Olympic Stadium Proposal

Boston 2024

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Our nightmare is officially over! twitter.com/marty_walsh/st...
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Record breaking snowfall!
Boston gets 110 inches snow!!

Last trace of Boston snow pile finally melts away

Published July 13, 2015 | FoxNews.com

A filthy pile of snow in Boston's Seaport District, a lingering reminder of the city's record-breaking winter, is no more.

Mayor Martin Walsh said Tuesday that the tower of the white stuff had finally melted to nothing from an

Boston set a new snowfall record this past winter, with 80.8 inches recorded over a 30-day stretch. That

notorious winter of 1978, which saw 58.8 inches of snow fall over a similar time period.

inches of snow.

The pile was constructed by workers who removed the snow from

it was stacked up and left to melt. But in this case, there

anticipated.

WHAT TO DO WITH ALL THE SNOW?!

+ Create architecture that is informed by environmental conditions and is beneficial for the future

last snowfall
April 24, 2015

snow melted
July 14, 2015

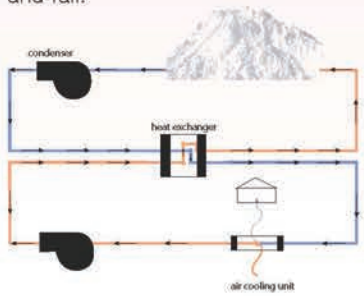
The Olympic stadium is a H20 energy system that will address Boston's snow storage crisis. By using the snow for air conditioning and melted snow for hydroelectric energy it will create a self sustaining facility which will support the idea of eliminating, "wasteful single serving Olympic Architecture."

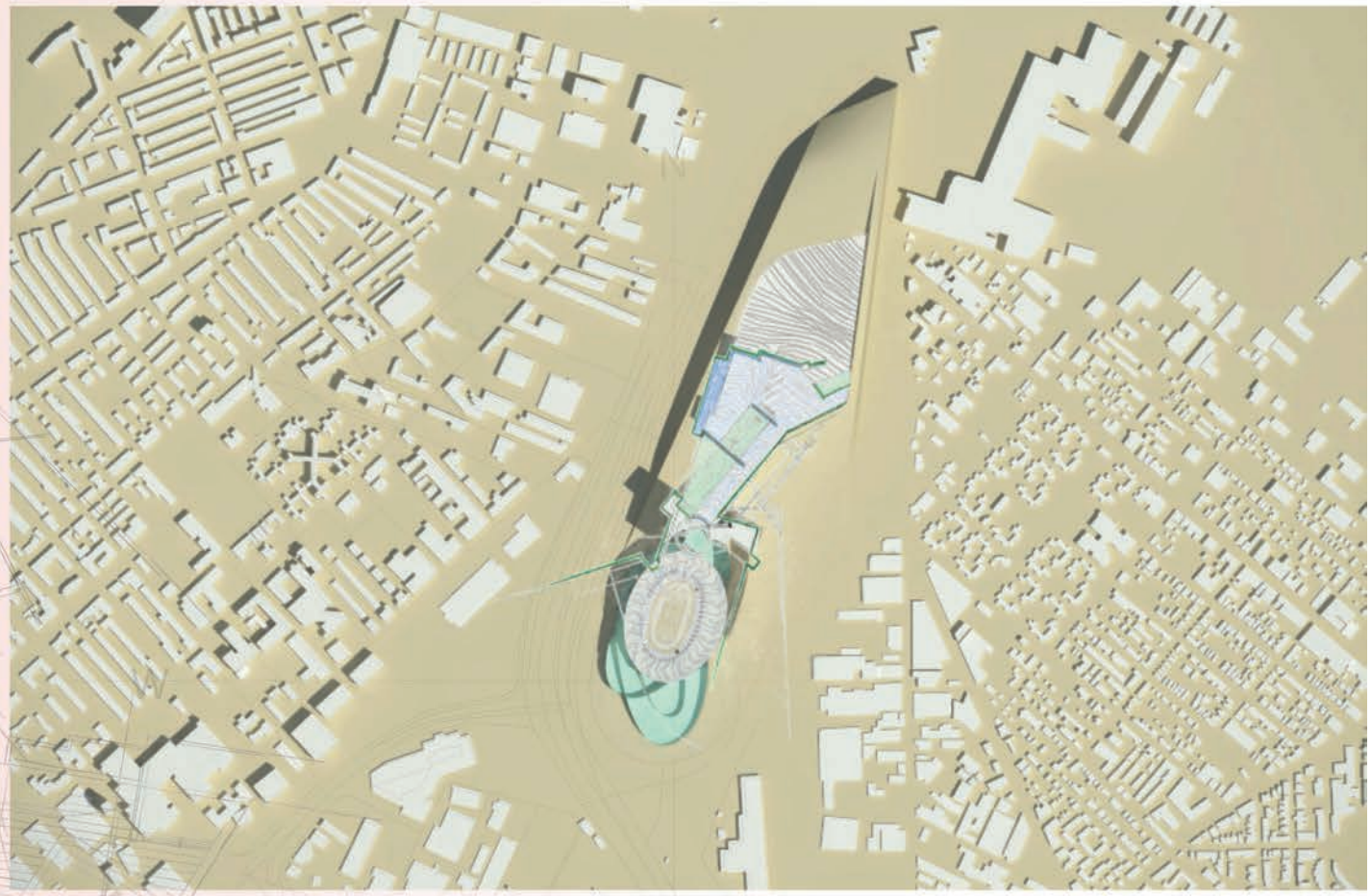
Snow Farm

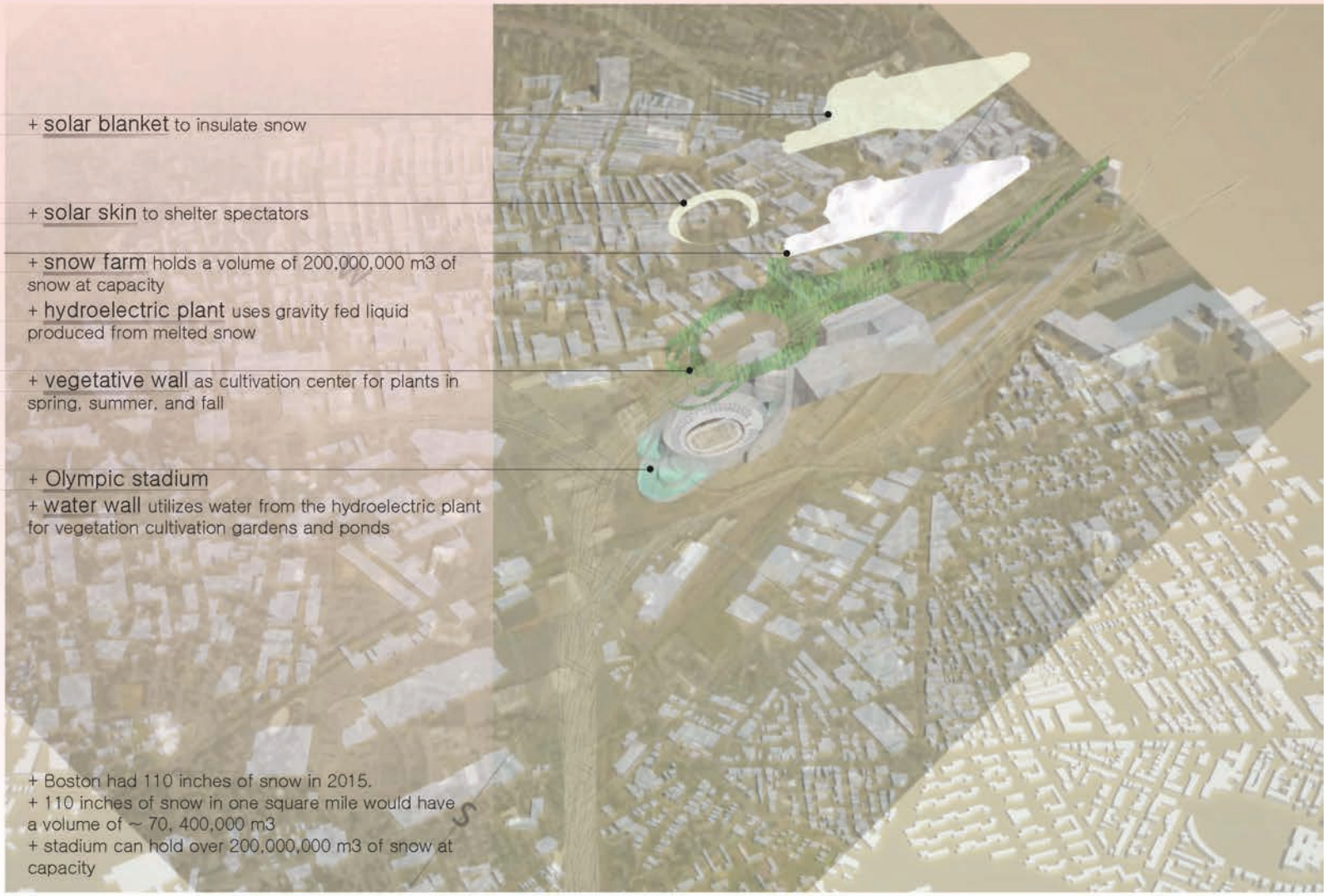
+ Snow for air conditioning
Outside air loses heat from contact with the snow-cooled liquid. The cool liquid picks up heat from the outside air then flows through the snow again to re-cool.

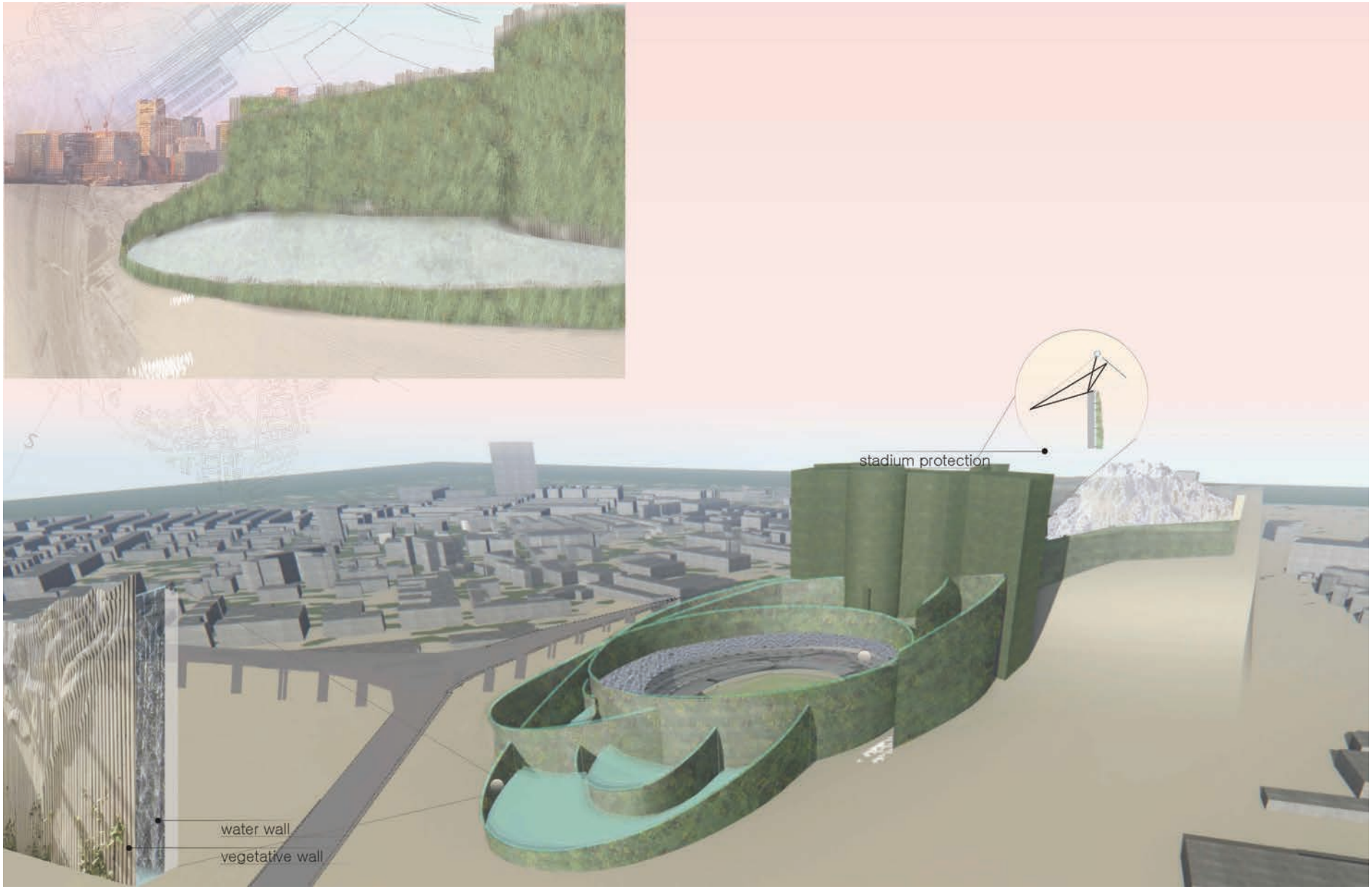
+ The snow gains heat and the water begins its descent to be used to create hydroelectric energy. This small scale hydroelectric plant demonstrates how it can be used for small scale energy production.

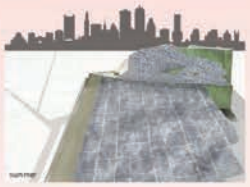
+ Additional water is used in plumbing, water walls/ponds and irrigation of vegetative walls which blossom in the spring, summer, and fall.

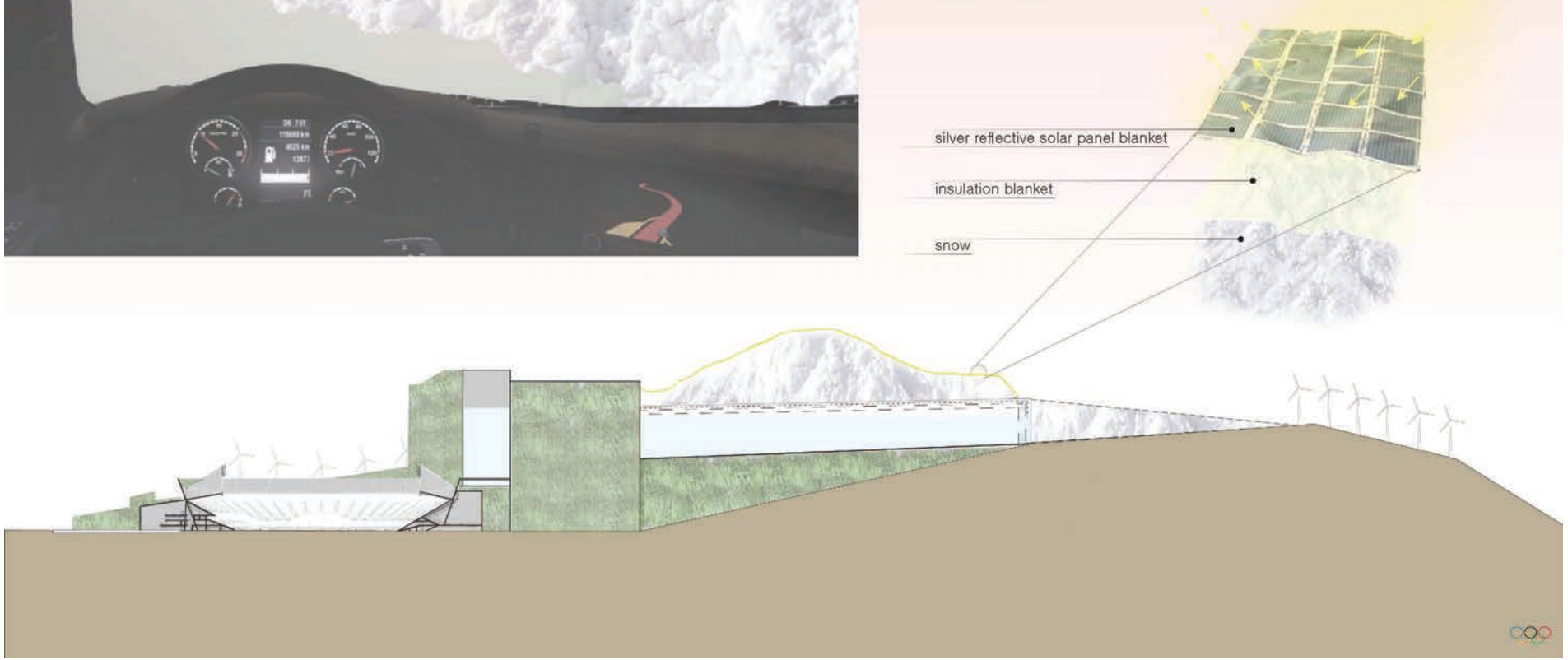





+ solar blanket to insulate snow
+ solar skin to shelter spectators
+ snow farm holds a volume of 200,000,000 m3 of snow at capacity
+ hydroelectric plant uses gravity fed liquid produced from melted snow
+ vegetative wall as cultivation center for plants in spring, summer, and fall
+ Olympic stadium
+ water wall utilizes water from the hydroelectric plant for vegetation cultivation gardens and ponds
+ Boston had 110 inches of snow in 2015.
+ 110 inches of snow in one square mile would have a volume of ~ 70, 400,000 m3
+ stadium can hold over 200,000,000 m3 of snow at capacity


stadium protection
water wall
vegetative wall




silver reflective solar panel blanket
insulation blanket
snow


Mahalo