

the **LAWN** @ Refshaleøen

FESTIVAL POWER FOR THE CITY OF COPENHAGEN

the **POWER** behind festivals

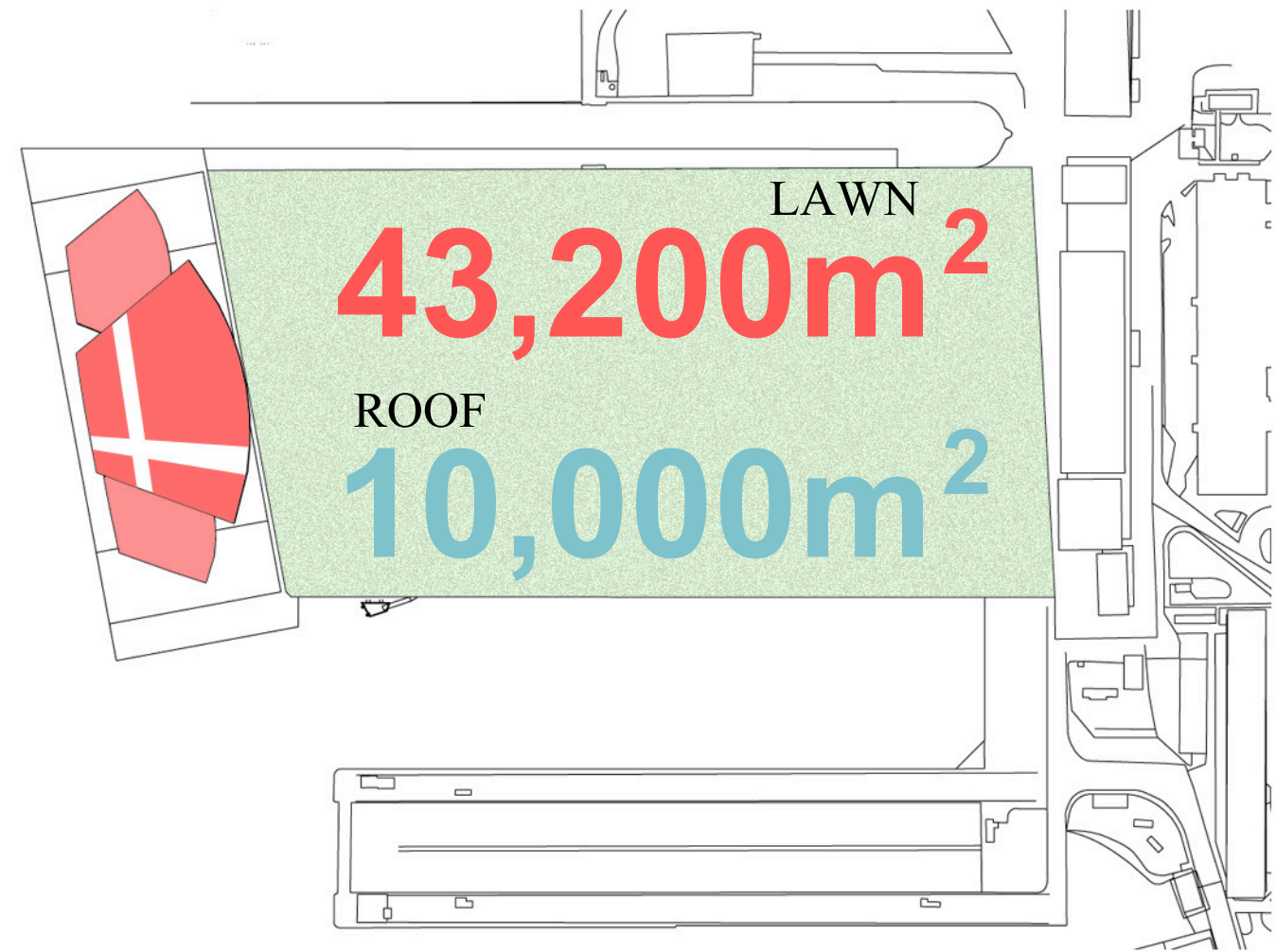
KINETIC ENERGY - PAVEGEN



SOURCE: PAVEGEN

PAVEGEN TILE MAKES USE OF THE PROPERTY OF PIEZOELECTRIC MATERIALS THAT, WHEN COMPRESSED, AN ELECTRIC FIELD IS GENERATED THAT CAN BE USED EITHER TO CHARGE A BATTERY OR POWER A SYSTEM

PAVEGEN SYSTEMS IS A COMPANY BASED IN THE UK. THE TILES TAKE THE KINETIC ENERGY OF HUMAN FOOTSTEP TO PRODUCE PIEZOELECTRICITY. EACH TILE IS ABLE TO GENERATE 4-8 WATTS OF ELECTRICITY PER FOOTSTEP



CAPACITY

BASED ON CROWD DENSITY BY PROF. G KEITH STILL

AT CAPACITY STATE

1.5m² 30,000 pax

ASSUMING TYPICAL 3HR ROCK CONCERT

AVE. PER STEP AVE. 1 STEP PER 2 SECONDS

8watt 162,000,000 steps

ENERGY GENERATED AT TYPICAL 3HR ROCK CONCERT

1,200 Mwh

SOLAR ENERGY



SOLAR ENERGY IS THE TECHNOLOGY USED TO HARNESS SUN ENERGY AND MAKE IT USEABLE, VIA PV CELLS. WHEN SUNLIGHT HITS THE CELLS, IT KNOCKS ELECTRONS LOOSE FROM THEIR ATOMS. AS ELECTRONS FLOW THRU THE CELL, THEY GENERATE ELECTRICITY

BASIC SOLAR EFFICIENCY

AVE. SOLAR ENERGY PER DAY

PV CELL EFFICIENCY

TOTAL ENERGY

4.61 kWh/m²/day 15% 6,915 kWh/day



festival for the public



view of the LAWN on a social day



view from Little Mermaid