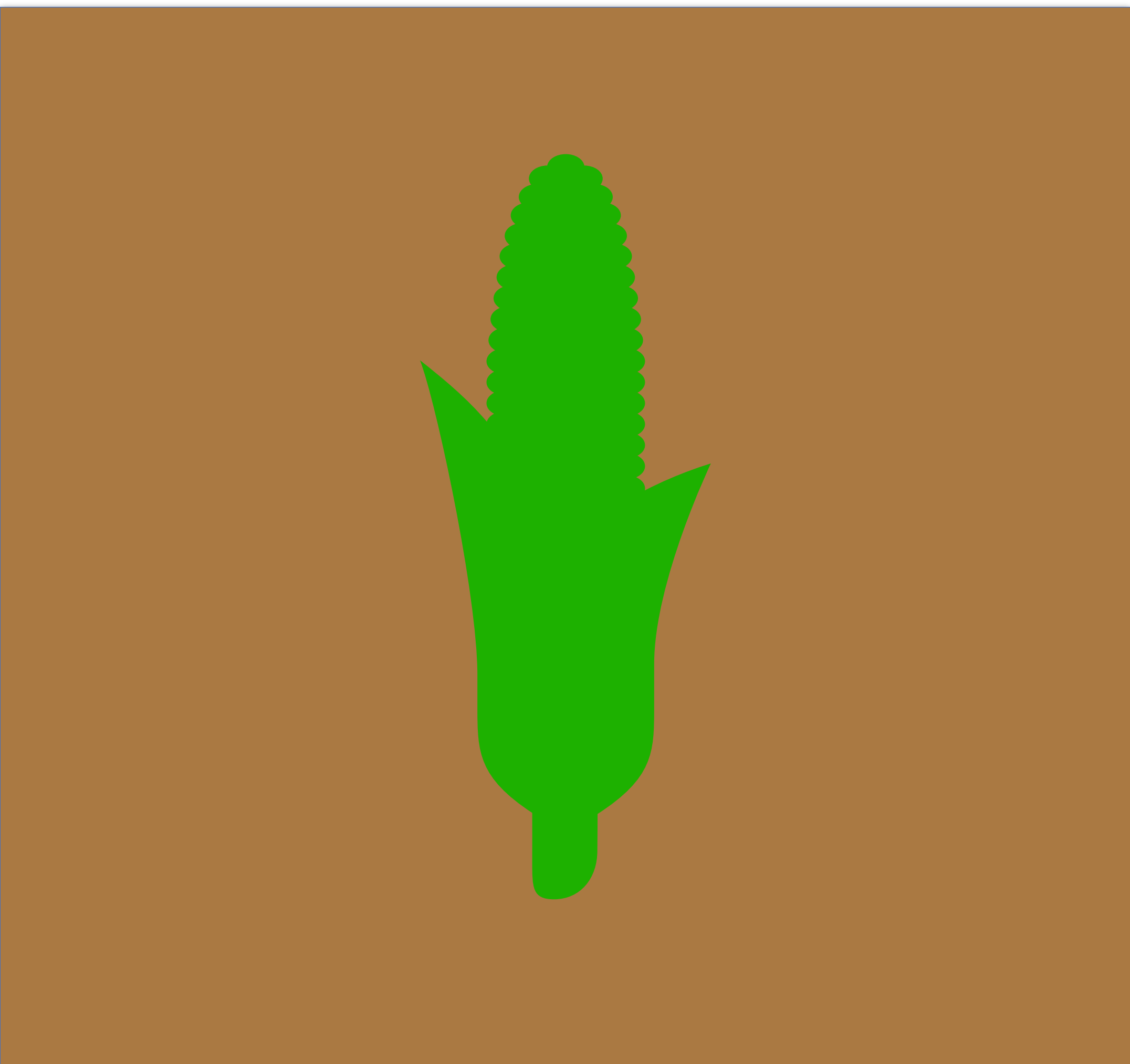
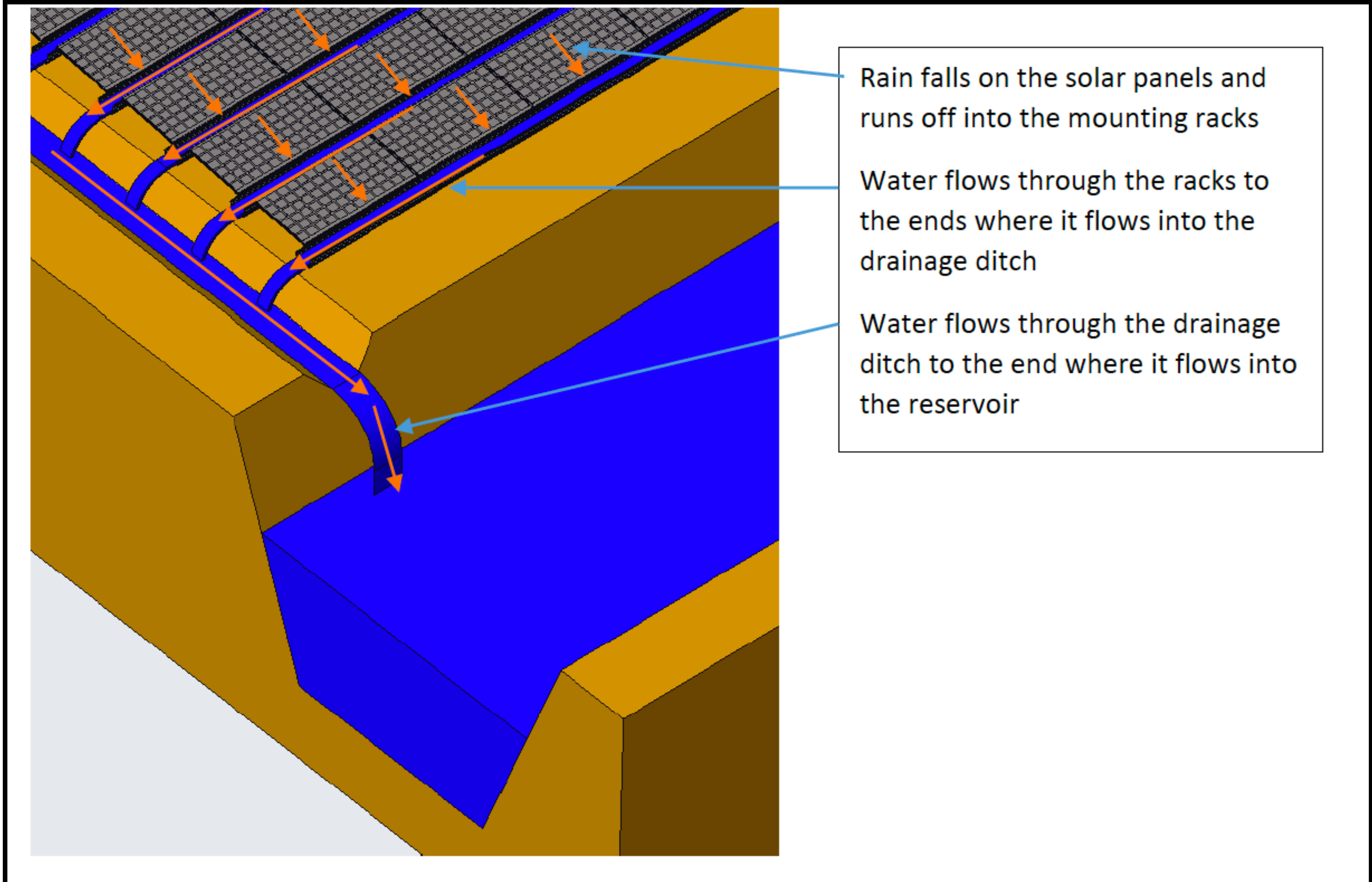




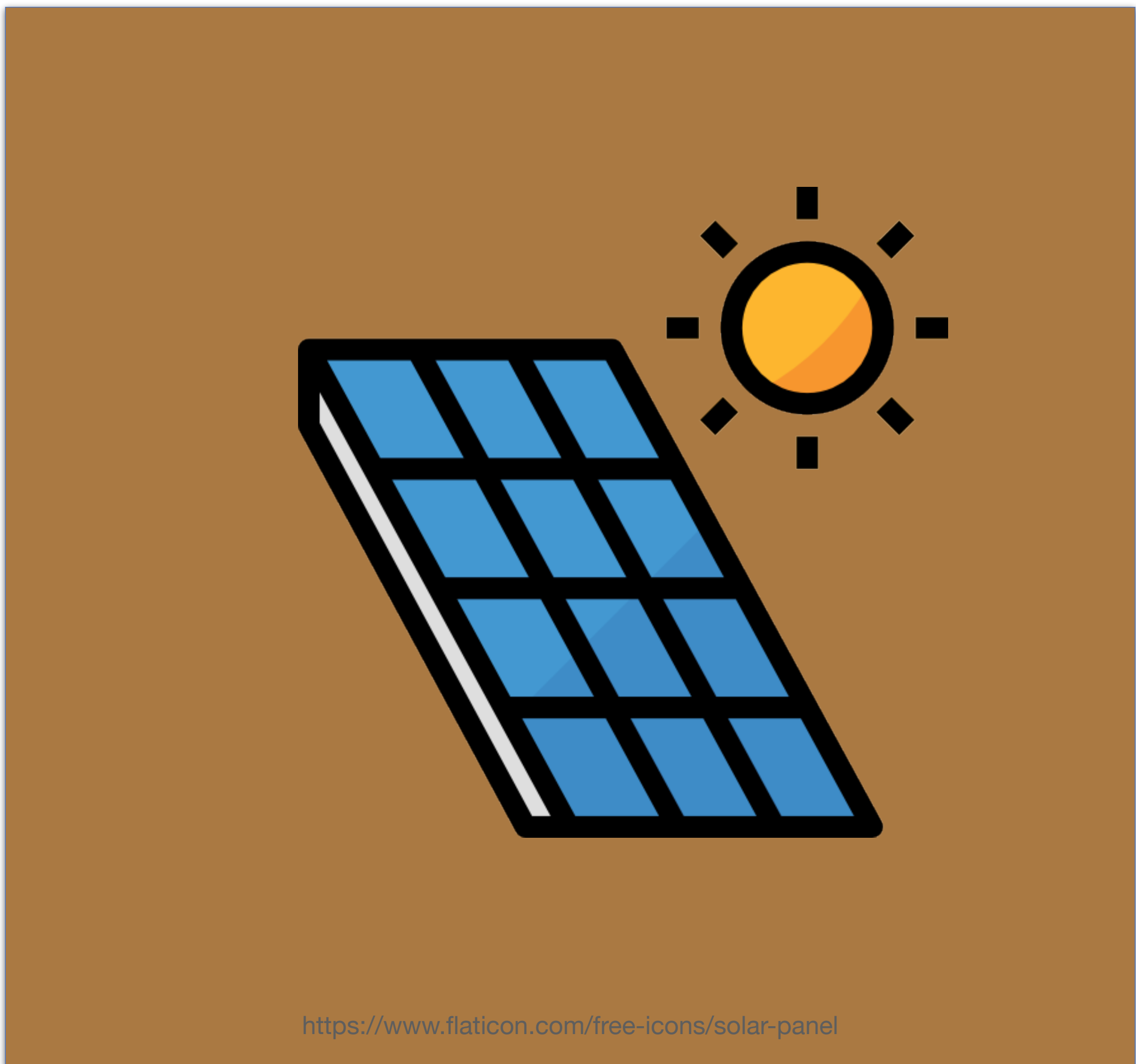
Irrigation using water collected by solar arrays

Creating a mutually beneficial relationship between clean energy and agriculture

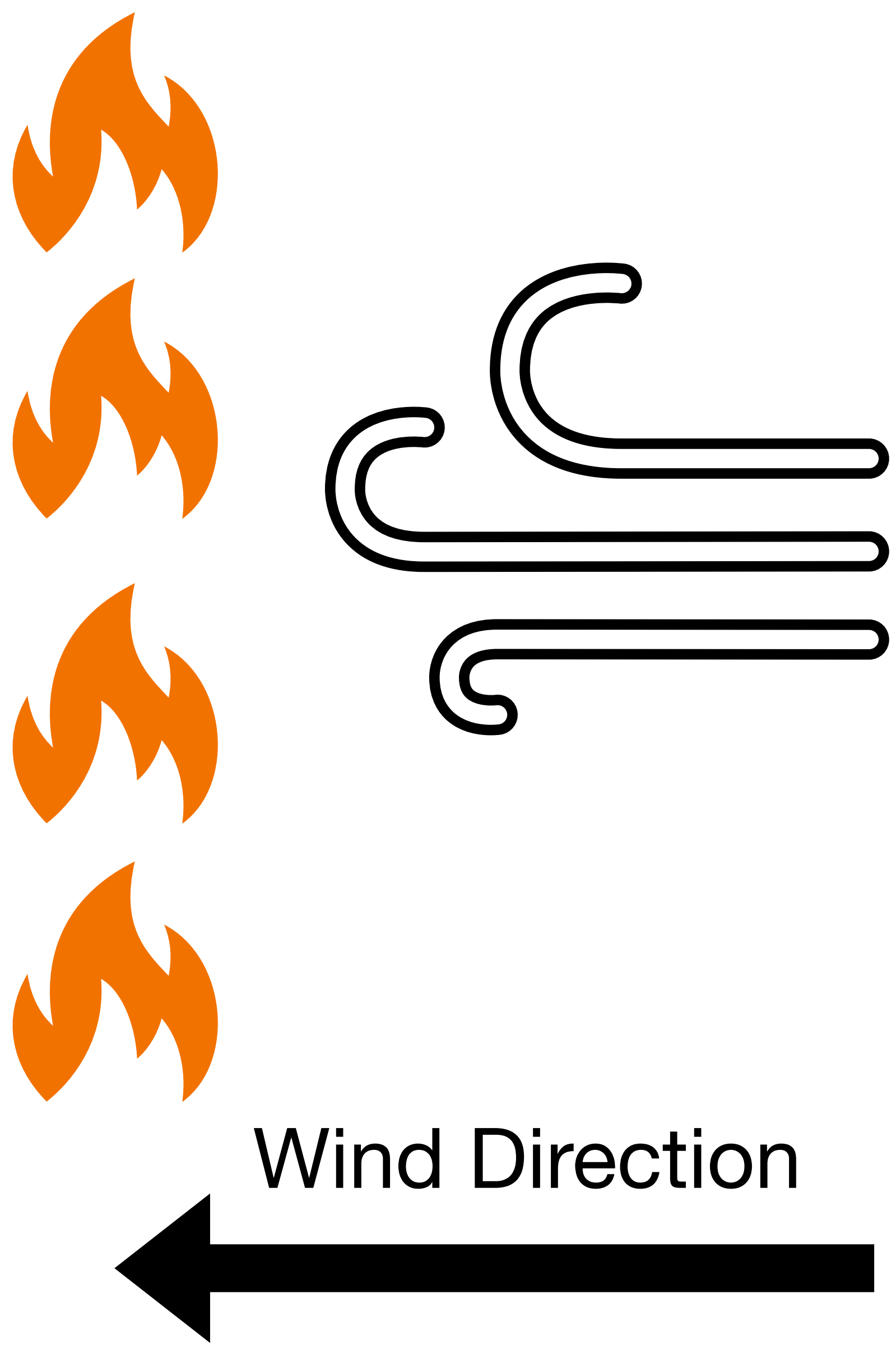
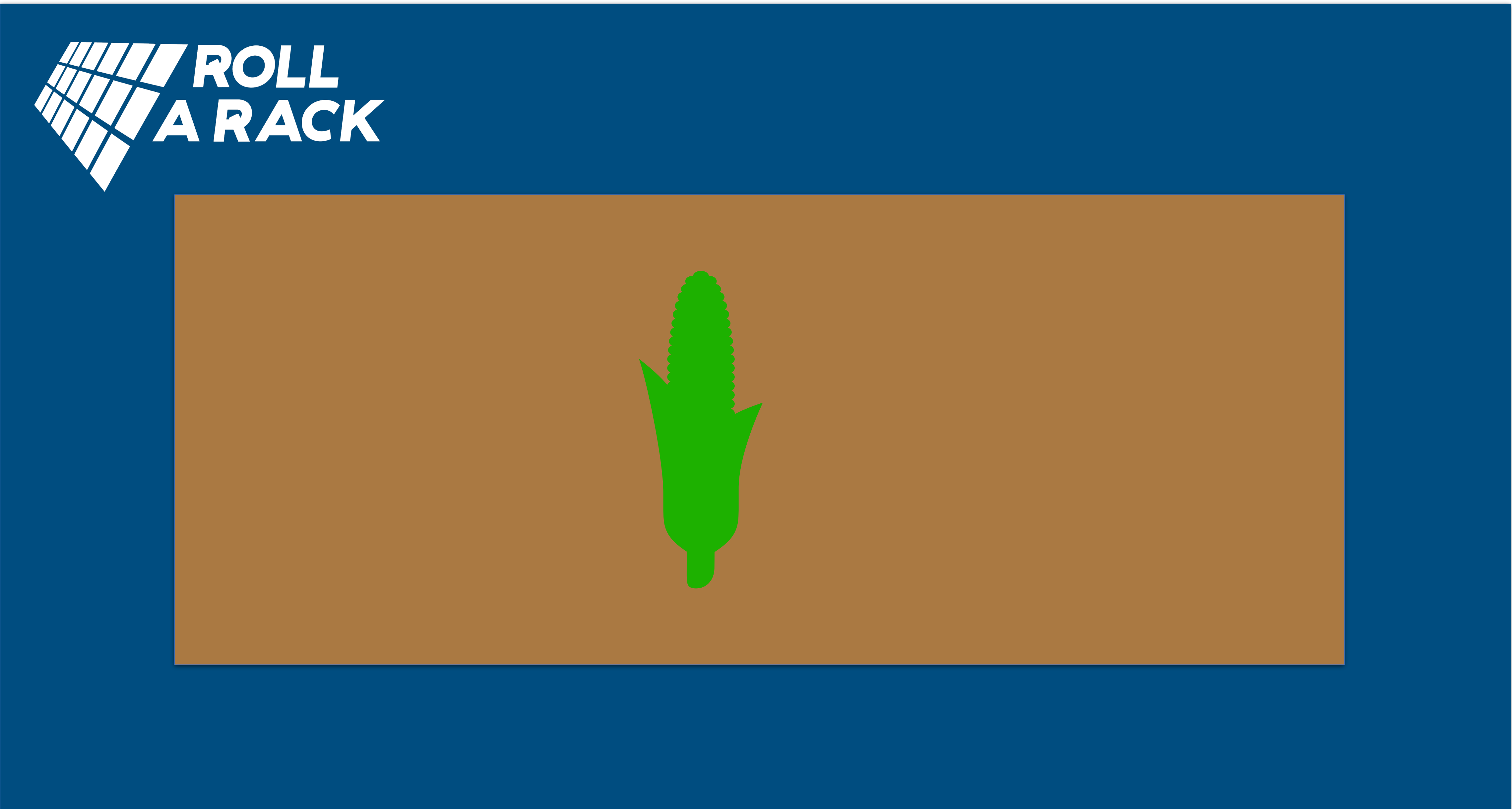
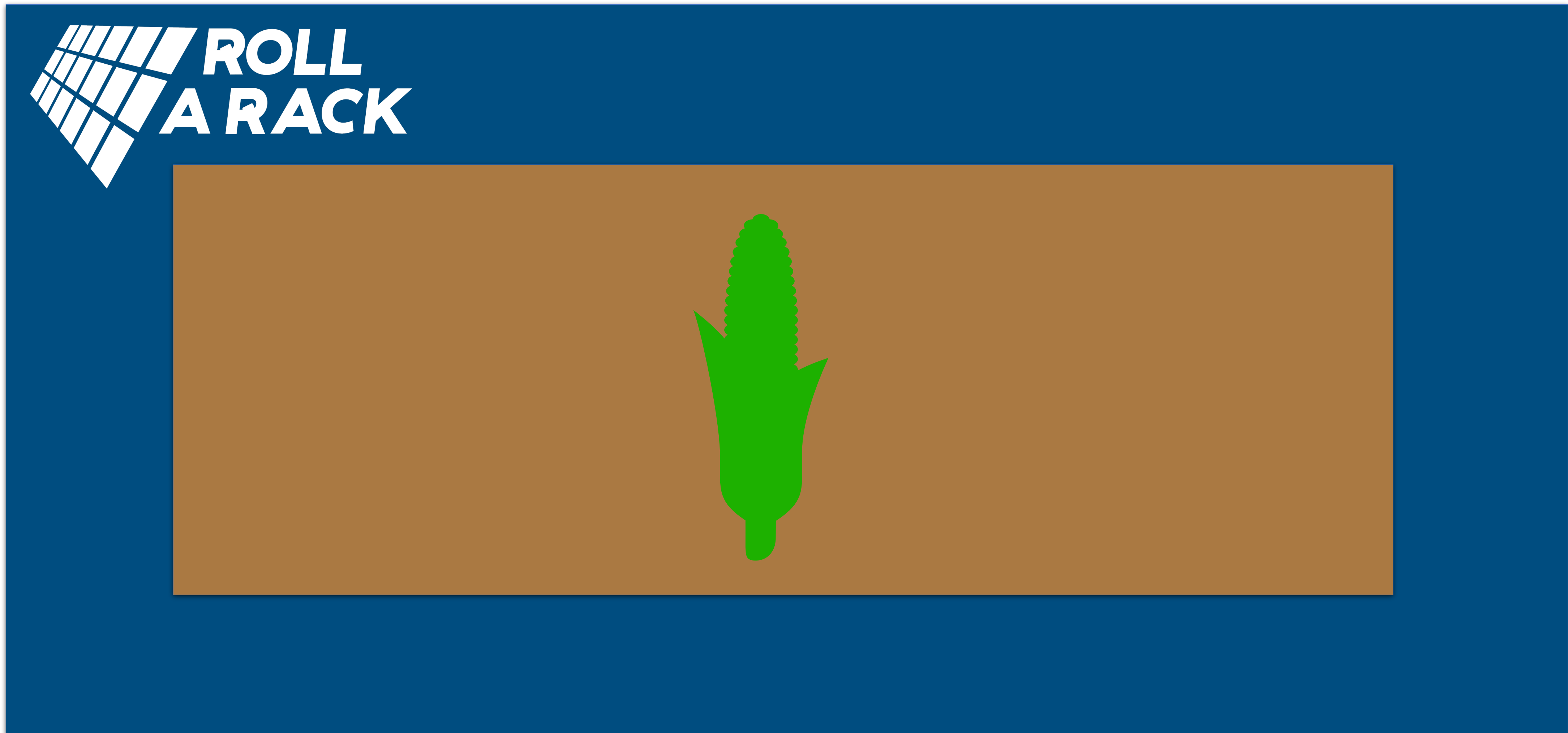
In the American west, and regions around the globe with similar climates, water scarcity impedes farming what was once prime agricultural land. At the same time much of this land is suitable for solar farms to meet demand for clean energy. Roll-A-Rack’s innovation of irrigation using rainwater collected from a nearby solar array not only allows users to avoid the either-or question of producing energy or producing food, it creates a symbiotic relationship, whereby nearby solar farms make land *more* suitable for agriculture. Drip irrigation, using stored water, is several times more efficient than rain at irrigating crops. Only about 20% of rain water effectively irrigates crops, with the remainder evaporating, running off, or soaking into soil away from the roots. This means that if a plot of land were equally partitioned for solar and crops, effective rainfall on crops would be magnified fivefold.



Or



Becomes



Roll-A-Rack can also act as a firewall to protect land from wildfires. During fire safety certification the Roll-A-Rack array very effectively halted encroaching flames. A Roll-A-Rack array surrounding crops could halt encroaching wildfires.