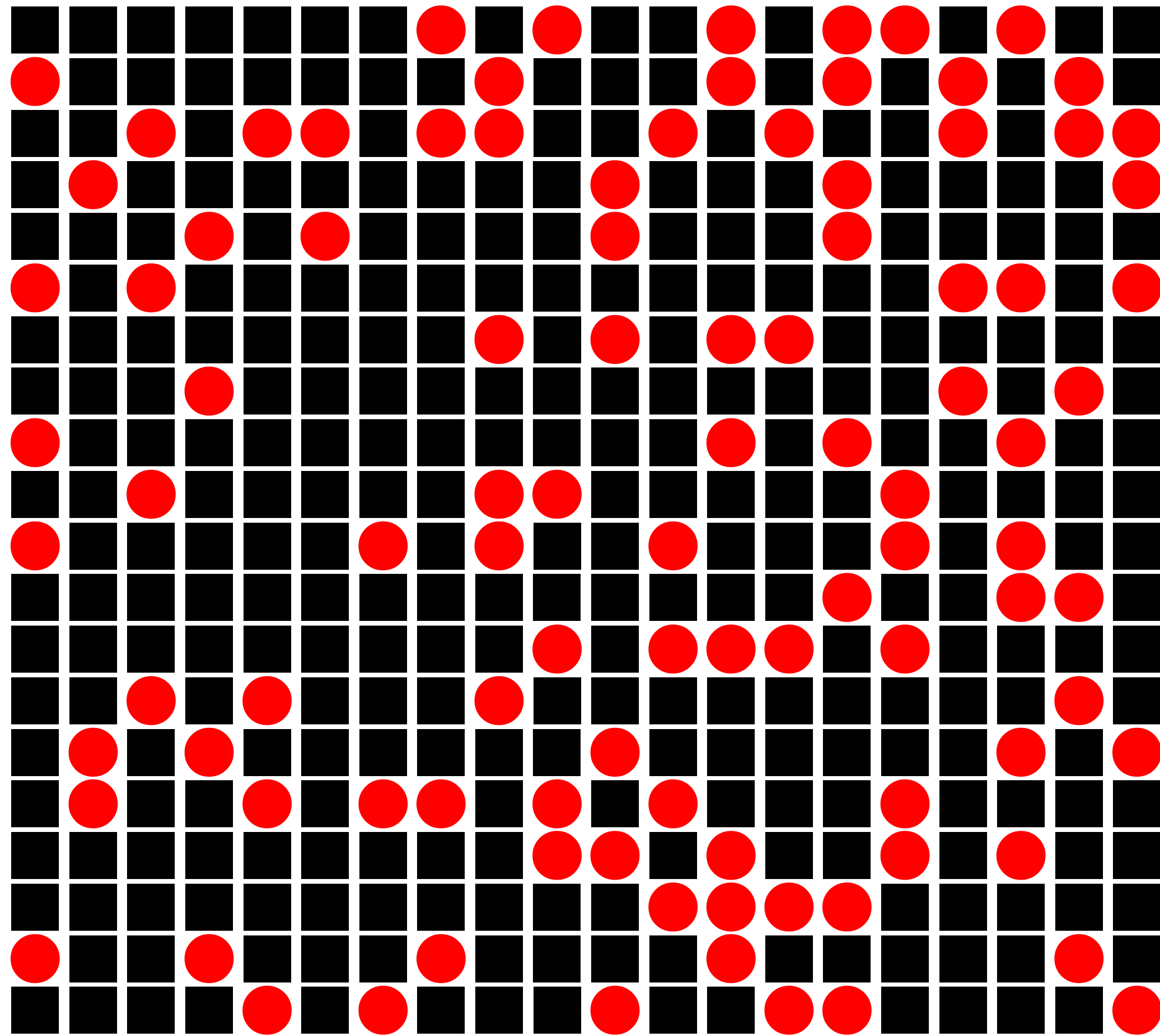


After many “hops”, the system has “thermalized”

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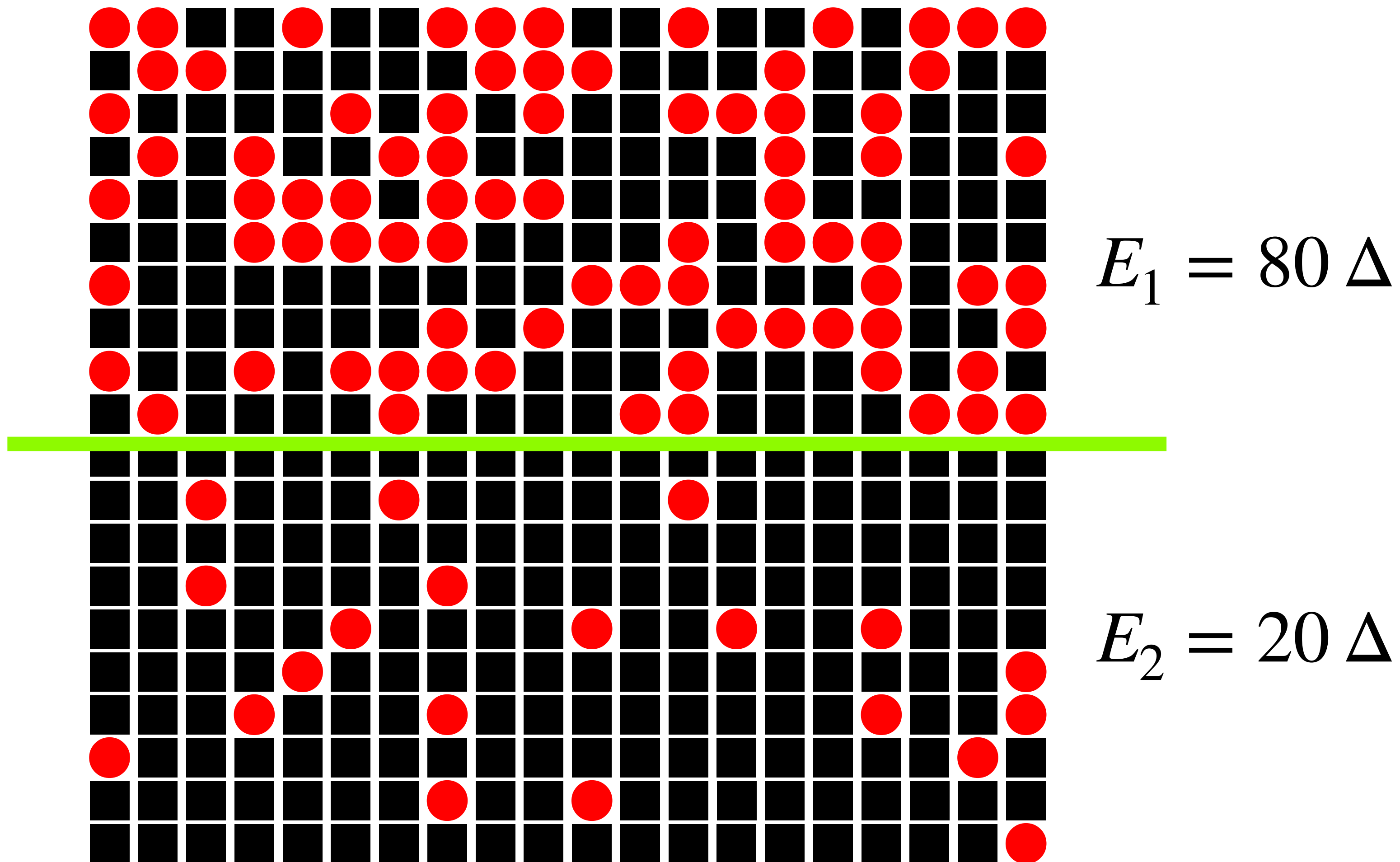


With the partition gone the system explores many new configurations

“thermalized” means that the system is equally likely to be in any of its  $e^{225}$  microstates

# Two thermalized states, separated by a partition

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The macro state is  
 $(E_1, E_2) = (80, 20)$

When the partition is removed the system hops exploring configurations with different partitions of energy.