

THE CIRCULAR ECONOMY

Tackling Climate Change

Waste generation is a major concern as landfills around the world near capacity.

Source: Circle Economy The global economy consumes 110 billion tons of materials each year, but only is reused or recycled

Today's Take, Make and Waste Approach

In today's economy, we extract resources to manufacture and use products for a short time, before disposing of them as waste. This is called the linear economy.







DISPOSAL



The linear economy is considered unsustainable as it fuels:

CONSUMPTION

RESOURCE **ECOSYSTEM DEPLETION** DEGRADATION

BAD CONSUMER HABITS

DISTRIBUTION





is the major source of unsustainable landfill dumping.



Source: Northstar Clean Technologies

the United States.





BUT EFFORTS FOR A TRANSITION TO A MORE SUSTAINABLE ECONOMY ARE ALREADY UNDER WAY.



would otherwise be discarded in landfill. These repurposed materials are:

Northstar Clean Technologies repurposes the

component parts from asphalt shingles that







The Circular **Economy**

Different from the traditional linear economy, the circular economy employs reuse, remanufacturing and recycling to create a closed-loop system, minimizing

of the circular economy.

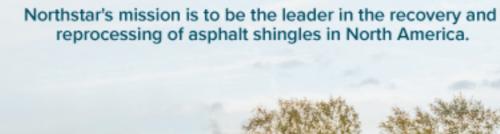
Northstar's solution is based on the concept

pollution and harmful carbon dioxide emissions.



84% of homes in the U.S. are roofed with asphalt

shingles. Only 14% of the asphalt shingle waste in the U.S. are being directed to "next use".





OTCOB: ROOOF