### Recyclability / Sustainability

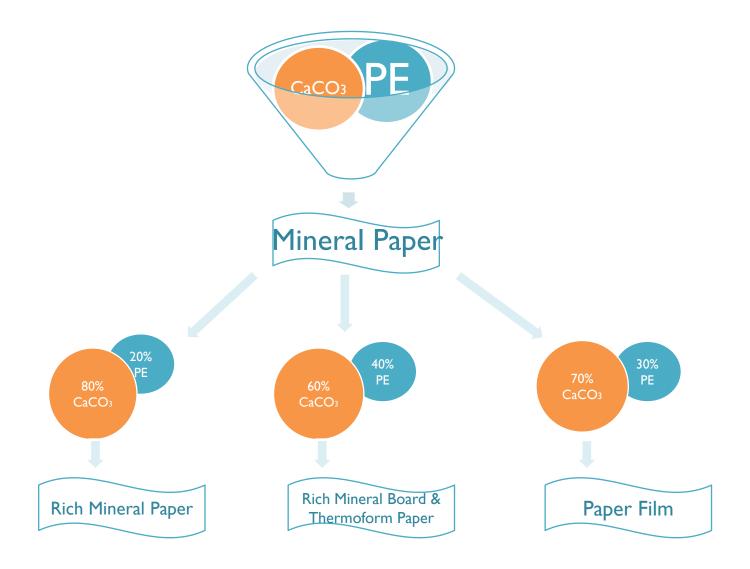


Stone - Paper

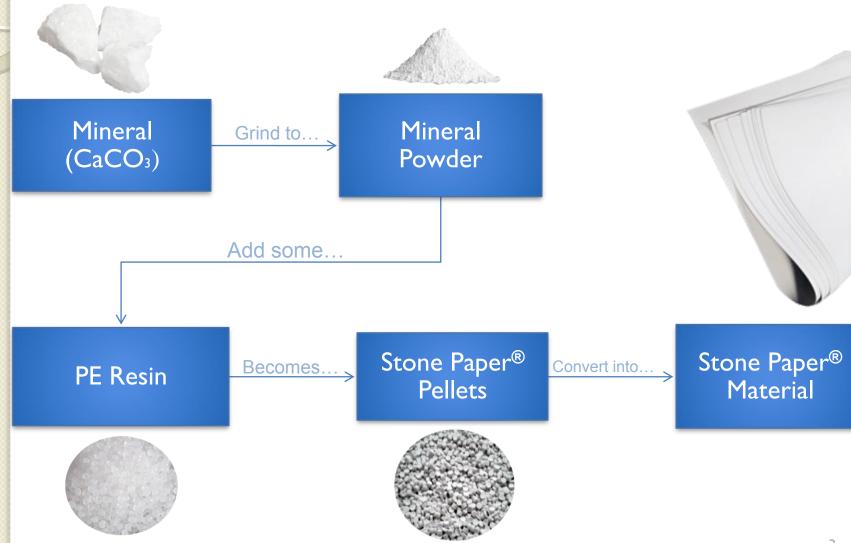




#### Stone Paper Material Composition



### Stone Paper Production Process



## Stone Paper Material Advantages



No Trees



Less Water



Less Air Pollution



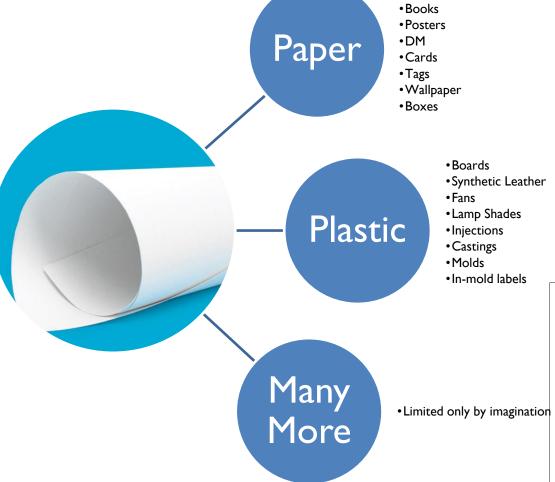
Photo Degradable



Easy to Recycle

Stone Paper Products

• Paper Bags

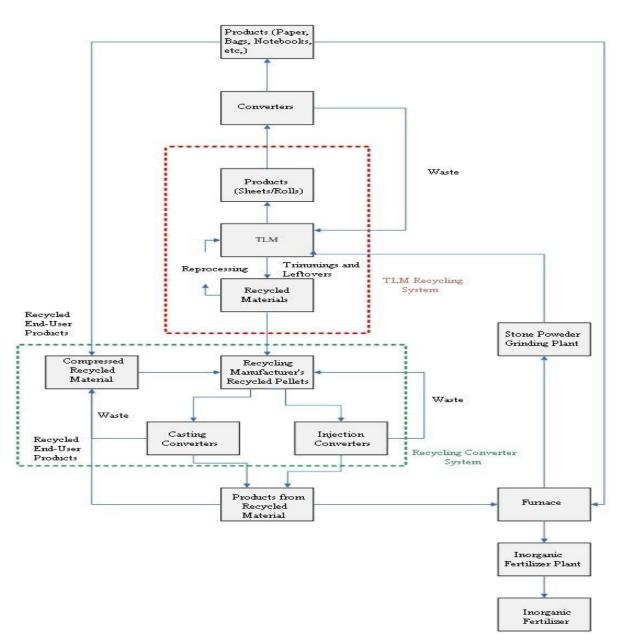








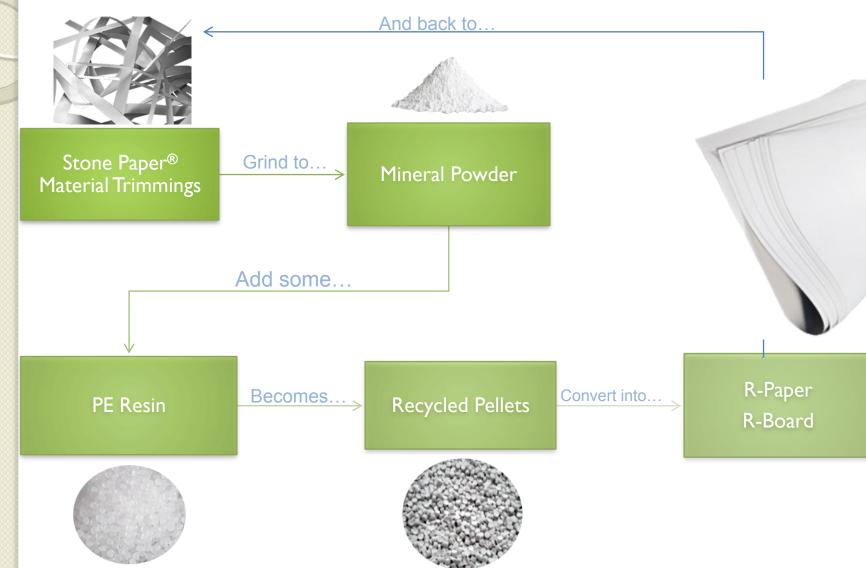
# Recycling Process



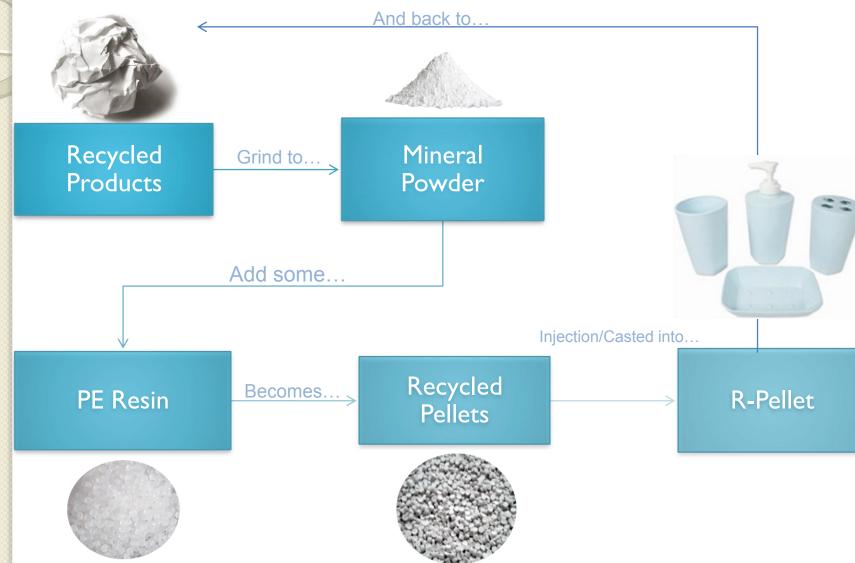
# Recyclability

Reuse Material and Percentage	Recycle back to mill	Recycle via Plastic #2 or #7 channel	Photo- degrade	Furnace
Reuse PE %	98-100%	98-100%	0	0
Reuse Mineral Powder %	98-100%	98-100%	98-100%	98-100%
Reuse Mineral Paper %	98-100%	98-100%	60-80%	60-80%

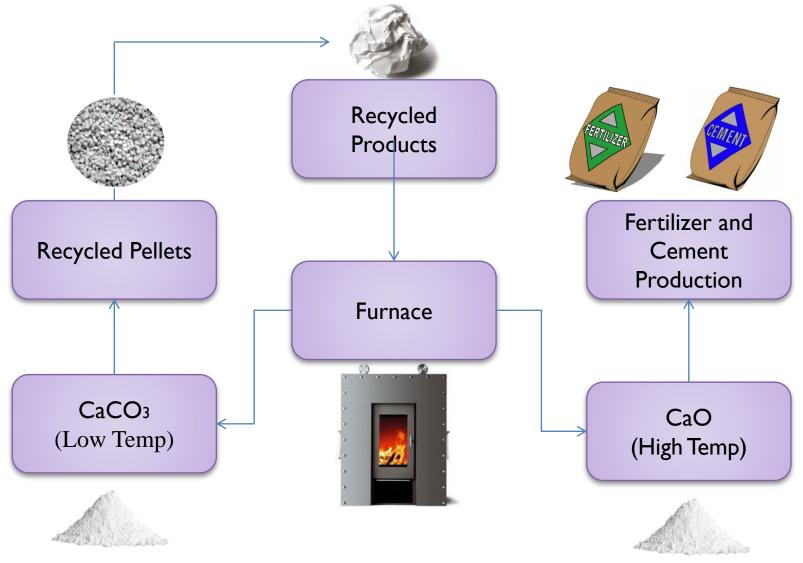
# Mill Recycling System



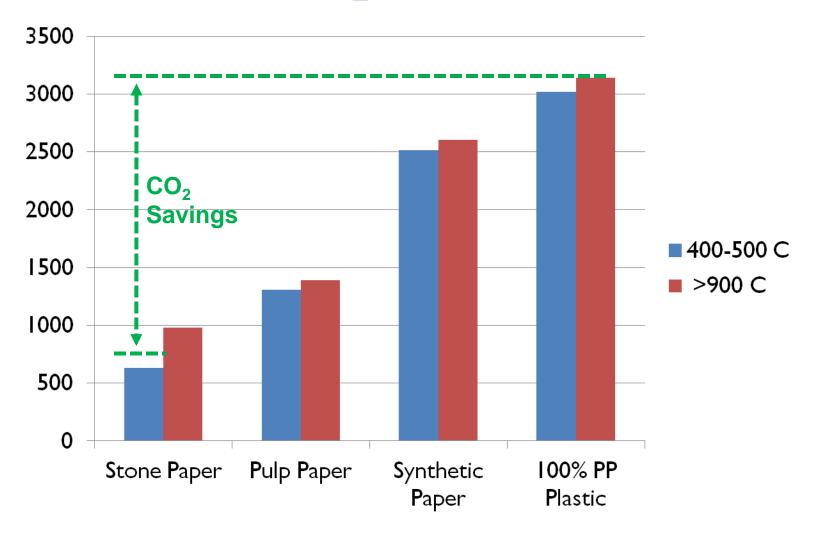
# Recycling Converters System



## Incineration Recycling System

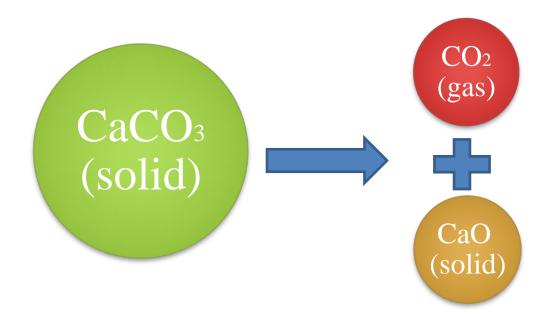


### CO<sub>2</sub> Release



At 400-500C - Stone Paper® Material emits 2389kg/T less CO<sub>2</sub> At over 900C - Stone Paper® Material emits 2163kg/T less CO<sub>2</sub>

### Reuse CaCO3: Incineration / Furnace



It releases carbon dioxide on heating (>840 °C for CaCO<sub>3</sub>) to form calcium oxide, commonly called quicklime.

#### Reuse CaCO3:

Fertilizer & Cement Applications

CaO Applications:

CaO N+P+K Fertilizer

#### Nitrogen (N)

Nitrogen is a chemical element which has the symbol N. Elemental nitrogen is a colourless, odourless, tasteless.

#### Phosphorus (P)

A multivalent nonmetal of the nitrogen group, phosphorus is commonly found in inorganic phosphate rocks

#### Potassium (K)

Elemental potassium is a soft silvery-white alkali metal that oxidizes rapidly in air and is very reactive with water, generating sufficient heat to ignite the hydrogen emitted in the reaction.

#### Introducing the R-Series

Mill Recycling System

Raw Material

R-Paper

R-Board

Recycling Converter System

Finished Products

R-Pallet

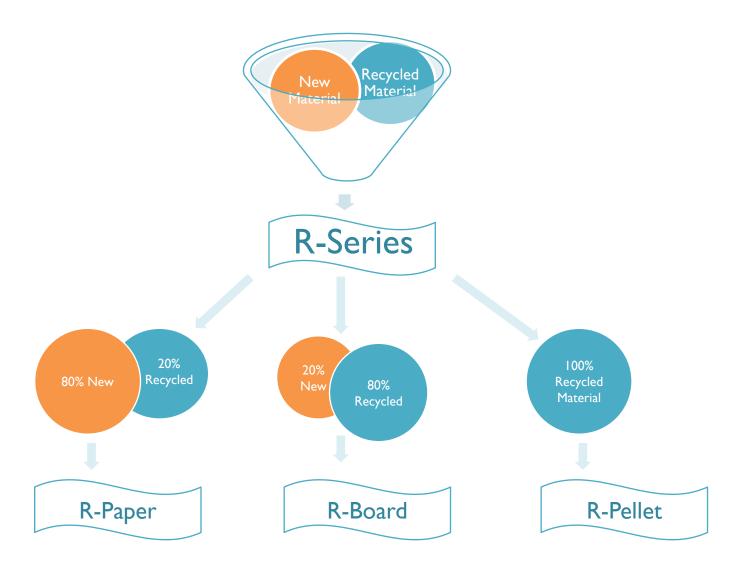
Incineration System

Finished Products

CaCO<sub>3</sub>

CaO

## R-Series Material Composition



#### Conclusion

- Closed Loop
  - Mill Recycling System
    - In-House closed loop
    - Full control
  - Recycling Converters System
    - Out-of-House closed loop
    - Partnerships semi-controlled
  - Incineration Recycling System
    - Partial loop PE burns off
- Sustainable
  - Cradle to Cradle
    - CaCO<sub>3</sub>, PE, Water, Energy
  - Continued Recycling
    - PE
      - 60-80%
    - CaCO<sub>3</sub>
      - 98-100%