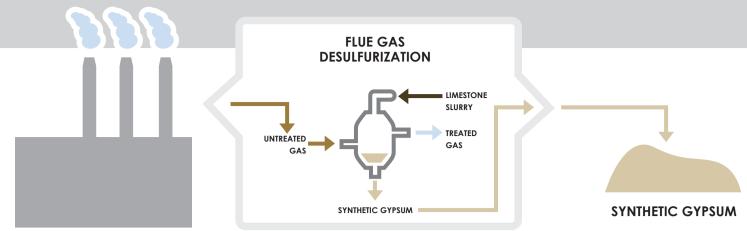
# SYNTHETIC (FGD) GYPSUM:

Turning an industry byproduct into a value-added soil amendment

Synthetic gypsum (aka FGD gypsum or syn gyp) is gaining popularity for the many benefits it can offer. Most commonly, it is processed via pelletizing for use as a soil amendment.



## **BENEFITS OF SYNTHETIC GYPSUM**



#### **REDUCES NEED FOR MINING**

The use of synthetic gypsum reduces the need to mine natural, finite gypsum sources



### The use of synthetic gypsum turns a waste

into a usable product, avoiding landfills



### Using a synthetic gypsum as a soil

amendment creates a revenue source where waste management costs would otherwise be incurred



#### As a soil amendment, synthetic gypsum can

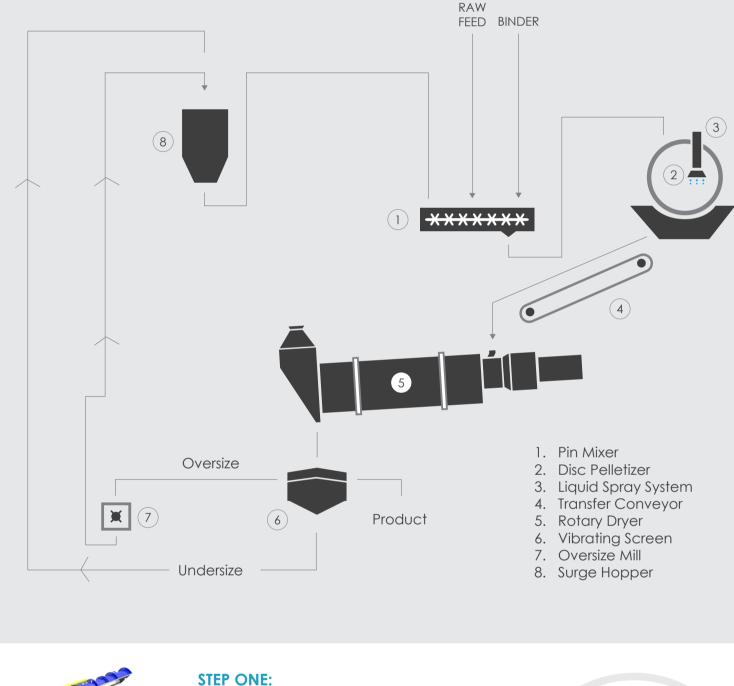
provide the same benefits as natural gypsum.

PROCESSING SYN GYP INTO A SOIL AMENDMENT

for use as a soil amendment. This mitigates dust and handling issues and improves application. Shown below is a simplified flow diagram for a typical synthetic gypsum pelletizing operation. This process also employs a pin mixer for preconditioning.

Synthetic gypsum is processed from a powder into a rounded granule







#### Preconditioning in a pin mixer serves to thoroughly mix the binder and material into

**PRECONDITIONING** 

a homogeneous mixture and prepare it for pellet formation.

Binder

Liquid Raw Feed

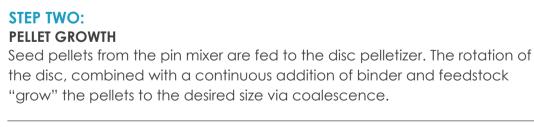


**BENEFITS TO** 

PRECONDITIONING:

Increased Production

Easier Processing & Handling



Not all processes utilize a preconditioning step,

but those that do see significant benefits.

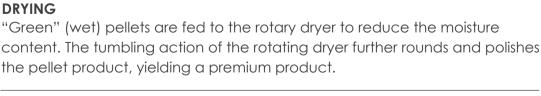


Homogeneous Seed Pellets Rounded Liquid Raw Feed (Nuclei) Binder Pellet





**STEP THREE:** 



Homogeneous Seed Pellets

(Nuclei)



**FEECO Rotary Dryer** 



Spherical Pellet



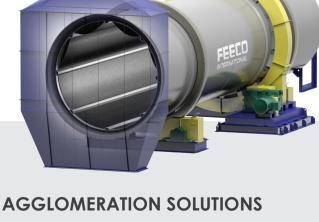


Action



Premium

Soil Amendment



FEECO is the world's top provider of tumble growth agglomeration equipment and process solutions. We offer custom agglomeration equipment, including all of the equipment listed here, as well as process and product development services. Through our unique batch and pilot testing facility, we can help you turn your synthetic gypsum into a premium soil amendment.

For more information, contact us today at FEECO.com/contact

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