

Technology of rock weathering into soil, fertility improvement of immature soil and remediation of degraded soil

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1. Project background

Soil scarcity and infertility







各省、自治区、直辖市人民政府,国务院各部委、各直属机构: 现将《土壤污染防治行动计划》印发给你们,请认真贯彻执行。

Hardening

Acidification

Desertification

Soil degradation







More stones and less soil

Soil erosion

Low vegetation survival rate

Release of "Soil Pollution Prevention Plan"

中华人民共和国中央人民政府

国务院关于印发土壤污染防治行动计划的通知

| 中国観況 | 法律法规 | 公文公报 | 政务互动 | 政府建设 | 工作动态 | 人事任免 | 新闻发布

国发 (2016) 31号

2016年5月28日

国 务 院

关于"十四五"大宗固体废弃物综合利用的指导意见

发政环查 (2021) 381号

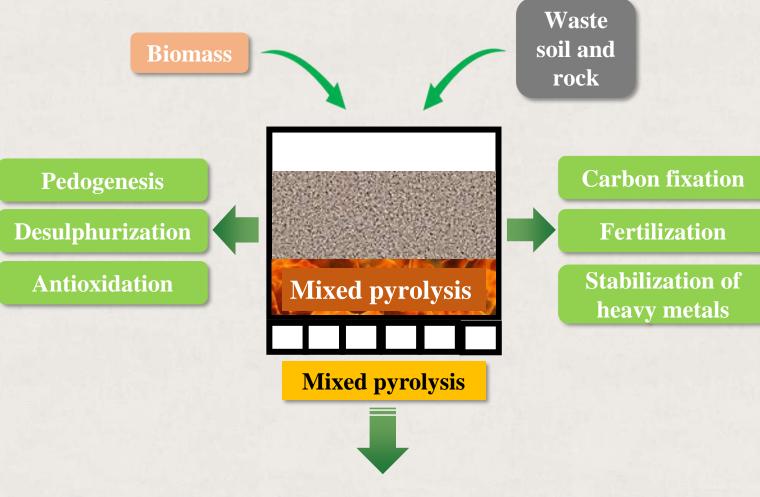
各省、自治区、直辖市及计划单列市、新疆生产建设兵团发展改革委、科技厅(委)、工信厅(委)、财政厅(局)、自然资源主管部门、生态环境厅(局)、住建厅(委、局)、农业农村(农牧)厅(局、委)、市场监督局、机关事务管理部门;

开展资源综合利用是我国深入实施可持续发展战略的重要内容。大宗固体废弃物《以下简称"大宗固废"》量大而广、环境影响突 出、利用前景广阔,是资源综合利用的核心领域。推进大宗固废综合利用对提高资源利用效率、改善环境质量、促进经济社会发展全面每 色转型具有重要意义。为深入员彻答实觉的十九届五中全会精神,进一步提升大宗因废综合利用水平,全面提高资源利用效率,推动生态 文明建设、促进高质量发展、制定本指导意见。

Guiding Opinions on "Comprehensive Utilization of Bulk Solid Wastes"

Severe soil problem!

3. Method and Patent



Comprehesnsive management of multiple types of soil issues

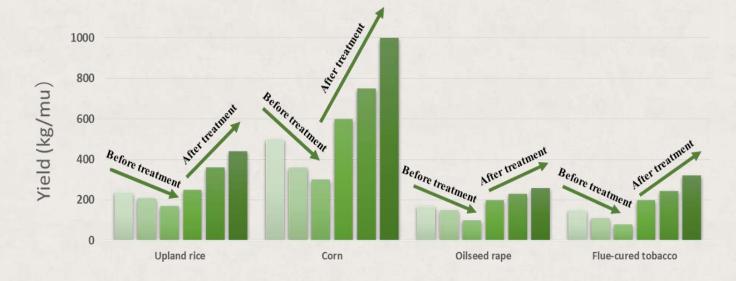






4. Benefits

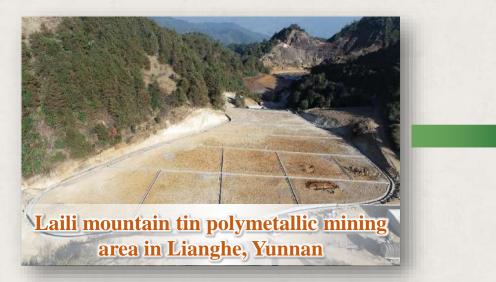
The technology not only achieves carbon sequestration and emission reduction, but also inhibits soil continuous cropping obstacles and increases crop yields.





and the ecological restoration of plants without fertilization was realized.

5. Applications





pH of surface substrate

nutritive element content

metal stabilization

A technology of accelerating weathering and pedogenesis by biomass pyrolysis





Shellac production from 2019, fertilizer-free survival ratio >90

Yield: 150 kg per

Chinese acre

6. Awards







China Industry-University-Research Cooperation Innovation Award in 2020

Environmental Protection Science and Technology Award: Second Prize

China Nonferrous Metal Industry Science and Technology Award: Second Prize

