

Terra Advanced Processing Facility

Site Selection Criteria



STRICTLY CONFIDENTIAL

Plant Location

- Close to large market (ideally <50 miles from market); plant capacity is ~240,000 ton/year.
- Ideally directly in aggregate mine or very close by to minimize transport of raw materials.

Plant Geometry

- Footprint: 5-10 acres. This can vary based on raw material receiving requirements.
- Height (excludes stack): ~90 feet.

Raw Material

- Reserve Life: minimum 20 years or 6M tons (30 years is optimal).
- Consistent from a mineralogical perspective - the Terra team can help with this. For feedstock selection, please refer to our 'OPUS feedstock selection guidelines'.
- Aggregate supply:
 - 2 inch minus top size; no critical gradation requirements below top size.
 - Strive for minimal aggregate plant processing to keep raw material cost down.
 - If possible, utilize existing waste stream or lower value products, for example crusher fines.
 - Moisture content < 8%.

Emissions Projections

- NO_x: less than 40 TPY (<0.16 lbs/ton OPUS).
- CO₂: 450-600 lbs/ton OPUS.
- Other: negligible. Point source for dust is limited.

Energy Estimates

- Natural gas: ~84 MM Btu/hr (~3 MM Btu/ton).
- Electricity: 135-145 kWh/ton.
- Oxygen: on site modular plant.

Truck Traffic

- Inbound raw material (7AM -6PM weekdays): average 30 truck movements daily.
- Outbound finished product (6AM -6PM, 6 days per week): average 30-35 truck movements daily.



240,000 TPY / 30 TPH Commercial Plant



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For additional information, please contact us:

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