

Bamboo

- When bamboo grows it acts as a wall between highway and residence, creating a noise and pollution barrier, as well as providing visual relief from highways
- Bamboo grows very quickly- mature in 3 years, versus trees which take 25 years to reach maximum pollution filtration
- Filters the air, soil and water:
 - » The leaves of the bamboo remove particulate matter, SO₂, NO_x, CO, CO₂, VOC's, ozone, and heavy metals, specifically from the air
 - » Produces oxygen, just like other plant life
 - » Bamboo doesn't even need fresh water to grow, wastewater can be used- because it consumes vast quantities of nitrogen
 - » Within a few years, can effectively reduce storm water runoff and improve air quality
- Helps create jobs- people would be needed to plant and maintain the plant(s)
- Creates biomass that can be harvested each year (for food, building materials, fuel, etc.)
- There are over 1000 species of bamboo from which climate tolerant species or species with specific qualities for end-use purposes can be selected
- Low cost solution to air, water, and noise pollution



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