

SOLAR CELL PHONE INFRASTRUCTURE

Powering telecommunications, empowering communities – solar cell phone infrastructure is enabling rural communities in developing countries to cross the digital divide.



ECONOMIC

Flexenclosure's E-site can reduce mobile operators' operating costs by up to 90%, enabling telecom network expansions that drive economic growth.



SOCIA

E-site increases the viability of providing telecommunications to "the next billion users" in developing countries.



ENVIRONMENTAL

The technology reduces carbon emissions, as well as noise pollution from diesel generators.

THE SOLUTION

! Mobile phone base stations powered by renewable energy such as the sun and wind deliver a reduction of up to 90% in diesel fuel consumption, CO2 emissions, and energy-related operating expenses compared to traditional diesel-based solutions. Flexenclosure's E-site is an intelligent green power management solution for base stations in the off-grid world.

This solution can also be expanded to a community power solution, sharing excess energy with a local off-grid community.

WHY A SUSTAINIA100 SOLUTION?

? Powering hundreds of thousands of base stations with dirty and expensive diesel fuel is not only one of the most environmentally harmful practices in the telecoms industry today; it is also a huge operating expense for mobile operators in developing countries. However, with E-site, solar and wind energy can replace diesel as the primary power sources for off-grid base stations, allowing mobile operators to protect the environment and save money.

The community power solution can simultaneously be used for a multitude of purposes: water pumps, lighting, school computers, charging stations for mobile phones, or even to power households.





www.flexenclosure.com



RECYCLING SCRAP TIRES



ECONOMIC

In 2013, Genan plans to open the world's largest tire recycling plant.



SOCIAI

Health problems (malaria, vermin) connected to landfilling of scrap tires are reduced.



ENVIRONMENTAL

One to two tons of CO_2 emissions per ton of scrap tire input is saved compared to alternative disposal methods (co-incineration, filling operations).

Proven a profitable business model, scrap tire recycling saves rubber and steel, avoids new production, and conserves valuable resources.

THE SOLUTION

! Recycling company Genan turns scrap tires into their original components: rubber, steel, and textiles. The reclaimed materials replace virgin resources in, for example, artificial turf pitches, rubber-modified asphalt, and new steel production. The technology is completely automated, with no human hands touching the tires from start to finish.

The solution solves a growing waste problem, saves resources, and creates considerable climate benefits. According to Genan, 99% of the tires are recycled into raw materials.

WHY A SUSTAINIA100 SOLUTION?

? Recycling is sustainable by definition. Reusing rather than disposing of materials reduces the need for extraction of new resources. As the world market prices of synthetic and natural rubber and steel are expected to continue to increase in the long term, Genan represents a sustainable business model to supply these valuable resources.



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