

Brazil microgrids

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Brazil, the home of samba, soccer, and beaches is on the verge of being a clean energy power. Microgrids can play a part in enhancing this role, helping to flourish renewable energy in Latin America's largest



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country.

Globally, the microgrid market is growing. Transparency Research Group this past October said microgrid investment will reach \$35.1 billion by 2020. This is an annual compound growth rate of 20.7% each year from 2014-2020.

Microgrids in BRIC (Brazil, Russia, India and China) countries, will reach a value of \$4.5 billion by 2020, according to 2012 Zypryme research. Brazil will have 11% share of the BRIC microgrid market.

Rural Brazil can benefit from small-scale electricity grids. Nearly 93% in rural Brazil have access to electricity, thanks to the Light For all program back in the 2000's . However, remote areas like the Amazon face energy poverty. Author Tom Friedman suggests being energy poor in a hot and crowded world will make it even more difficult for impoverished areas to get access to knowledge in the global economy, while effecting basic needs of living (shelter from extreme heat, water access).

Microgrids is a perfect fit for Brazil's needs. They can run off either renewable energy (which Brazil does have lots of thanks to hydro-electricity), fuel cells, or natural gas. Approximately 80% of Brazil's produced energy comes from hydro-electricity alone.

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