

From: rafael.melendez@greencitypartners.com
To: [comments, EMP](#)
Subject: [EXTERNAL] New energy technologies available now commercially
Date: Sunday, October 14, 2018 1:17:07 PM

This is a brainstorm of ideas we thought should be included as part of the conversation for the EMP:

1. Liquid Air Energy Storage: This technology makes use of off-the-shelf components that together are able to provide a turnkey system. It is inexpensive (compared to lithium) and scalable. One company has set up shop in Brooklyn for the local market.
https://www.highviewpower.com/news_announcement/world-first-liquid-air-energy-storage-plant/
2. Atmospheric carbon sequestration to oil fuel conversion: This technology is now available for commercialization. It is capable of providing on site fuel production (gasoline and clean burning diesel) at \$1/liter. This would allow for all municipalities to manufacture their own fuel locally and not be dependent on monopolistic companies or global markets. It would reduce the requirements of oil extraction dramatically, thereby making an immense impact on climate change very quickly. The fuel extracted from the air would be carbon neutral provided renewable energy is used for the extraction and manufacturing process.
<http://carbonengineering.com/>
3. Plastic roadways: <https://www.plasticroad.eu/en/> Prefabricated, hollow (for temporary water storage), long lasting; or <https://www.macrebur.com/> 100% plastic and asphalt layers.
4. Resource monitoring via satellite imagery: <https://www.planet.com/>
5. Waste to Fuel: <http://www.geneco.uk.com/>
6. Energy storage for supermarkets: <http://www.axiomexergy.com/>
7. Plasma technology for resource recovery and hazardous material destruction.
<https://tetronics.com/>
8. Plastics to fuel: <http://www.renewlogy.com/>
9. Floating solar farms: <https://www.ciel-et-terre.net/>
10. Ultra high performance fiber-reinforced concrete: <https://www.ductal.com/en>
11. Plastic pipe with 50-80 year lifetime: <http://www.aquatherm.com/>
12. Biochar: Improve agricultural yields, sequester atmospheric carbon, reduce forest fires and reduce flooding: <https://biochar.international/the-biochar-opportunity/what-is-biochar/>
13. Blockchain in energy markets: <https://www.powerledger.io/> ; <https://wepower.network/>

14. Blockchain in IOT: <https://www.iota.org/the-foundation/our-vision>

15. Smart Cities technology and protocols: <https://smartcitiescouncil.com/>

GCP is in no way affiliated with these companies.

Very truly yours,

greencitypartners
Catalysts for Sustainability & Resilience

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