



Renewables in the UAE



analysis of emerging opportunities

New regulations, tenders & projects in UAE along the renewable supply chain

Renewable Energy: Supply Chain

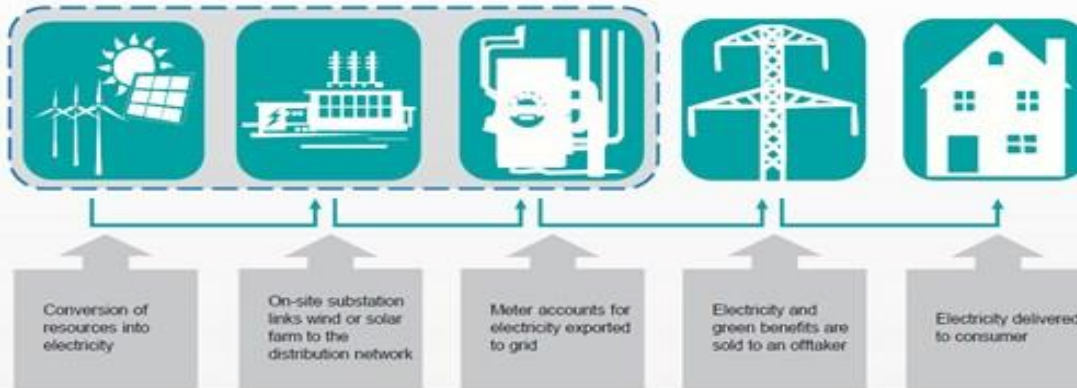
Wind / Solar farm owners sell electricity and green benefits to offtakers under Power Purchase Agreements. Offtakers supply electricity to end consumers

Renewable Energy Supply Chain

Wind / Solar Farm Owner

Cash paid for green benefits and power

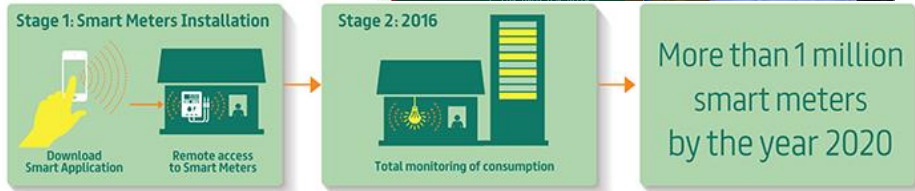
Offtaker



- ❖ Dubai's energy strategy aims to diversify the Emirate's electricity generation mix to include 15% renewable energy by 2030.

- ❖ Policies are setting place in the city of Dubai the RSB already have regulations on type of installation requirements to meet the standards of the infrastructures

Smart Meter



Jebel Ali Solar Plant



- ❖ DEWA has the smart meters to calculate the net metering, unfortunately batteries are still expensive for the household because of the incentives given by the power providers. In the industrial world, power storage and back to grid situations is commercially profitable.
- ❖ We have seen some companies in Jebel Ali who installed 300 Kilowatts system for a cold storage warehouse and effectively saved power consumption from the grid, they combined LED's with sunlight to save on the consumption and during the night they used their batteries as a power source.

Rooftop programs throughout the country

The solar rooftops have been introduced by DEWA and ADWEA, the program seems to be working examples are in Sustainable City, Masdar City and DP World Parking. There has been solar projects ongoing in Dubai and Abu Dhabi, it should be done by 2020-2021 to meet the requirements of the leadership currently the aim is to have a minimum of 15% of the UAE's power in sustainable energy.



Sustainable City, Dubai UAE

International Renewable Energy Agency HQ, Masdar City, Abu Dhabi, UAE





Innovators dream

Different technologies that will be part of the renewable energy future of the UAE, such as driverless EVs, decentralized generation, and blockchain.

RTA is ongoing Zoning For Testing a Driverless but Some court laws need to be clarified for in case of the accident

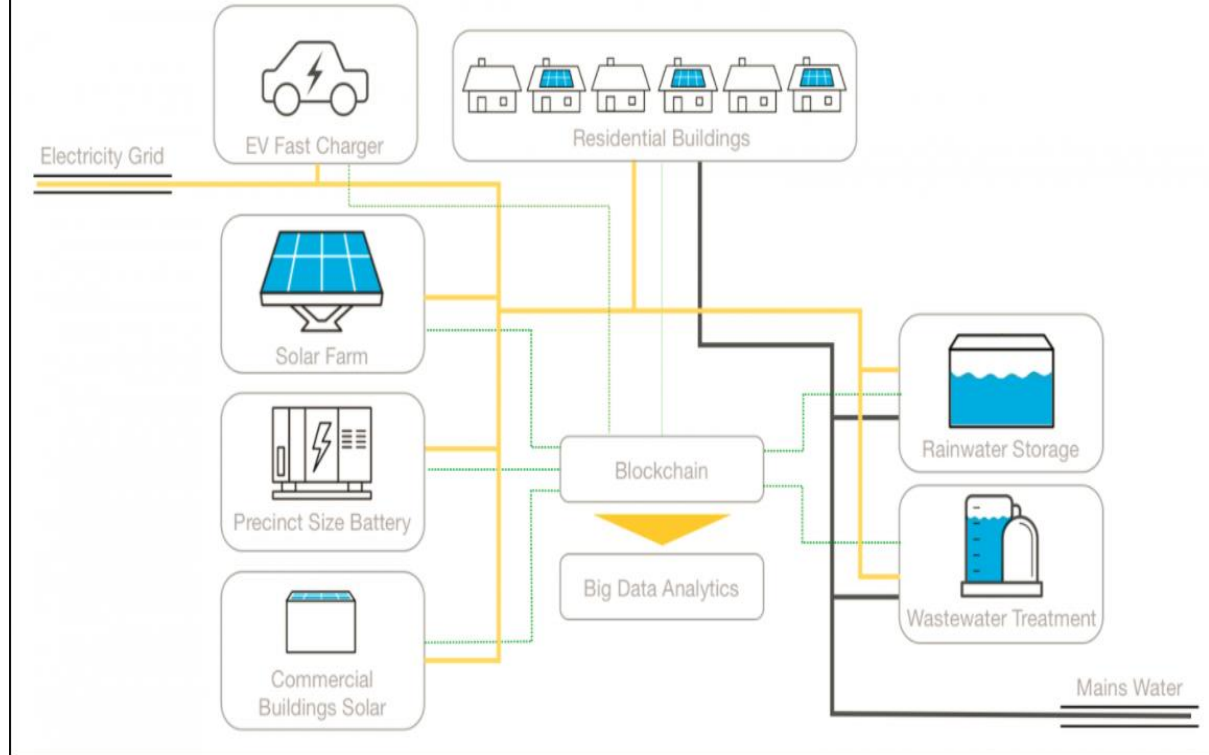
Police and insurance are in communication about scenarios, the laws in UAE are a bit different then the west where in case of a death occurs will it be the AP or The human driver in fault and its discussion that would have to get the regulations on board for such policies to protect the AI & Driverless technology rather than blocking it since we definitely need the industry world to help us with studies and shaping the policies

❖ Driverless EV



Blockchain

Dubai just signed with IBM to introduce a cryptocurrency, using blockchain ledger. We have seen blockchain in applications like pharmaceuticals and financial transactions. We just need further studies and white paper results to understand what is the best blockchain. Since security policies have not been approved or applied by many governments, blockchain looks like it's going to be on the private sector in the meantime, AI also must go aligned with blockchain.



Thank you!
