### Startup Investment on Energy & Environment for China Market

#### Bess Ho @Bess Oct 13, 2016 Stanford



US-ASIA TECHNOLOGY MANAGEMENT CENTER STANFORD UNIVERSITY 1.3 Billion Population 21% of World Population 7% of World's Freshwater Supplies 22% of World Energy Consumption 68% of China Energy came from coal

### Why do you care?

## 20% pollutants come from China

36% sulfur dioxide 27% nitrogen oxide 17% black carbon 22% carbon monoxide

### Affect World Food Supply

### Land Pollution Water Pollution Air Pollution

## Energy Crisis

 Enough coal reserves to last another 28 years compared to US reserve for 264 years
Renewable energy is limited and not sufficient for energy consumption



 Many rivers are severely polluted by industry, pesticides, and fertilizers
Water resources are scarer because of climate change and because of usage by large coal-fired power stations.

Water criss

#### ONLY 8 MAJOR CHINESE CITIES MET NATIONAL AIR QUALITY STANDARDS IN 2014 SOURCE: CHINESE MINISTRY OF ENVIRONMENTAL PROTECTION



 Nearly 300 cities suffer from heavy air pollution
> 1.6 Million people die per year from breathing toxic air
Air pollution costs China \$11 Trillion economy = 6.5% China GDP in lost productivity

HOU

LHASA



SHENZHEN

HAIK



#### Industrial Internet of Things (IIoT)

#### **COMPANIES BUILDING SMARTER CITIES**



#### 1960 Los Angeles Pollution

Par

# Hopes for China

#### 1950 London Pollution