SCALING CLEANTECH IN ASIA

Daniel Hersson, Team Leader (Consultant) Cleantech VC/PE Project, ADB Climate Technology Finance Centre APN Technology Transfer Scoping Workshop, Kobe, 6-7 December 2016







STARTUPS

develop and prove the new technologies, business models, products and services required to deploy and finance climate-friendly solutions costeffectively at scale



STARTUPS ARE DOMINATING THE CLEANTECH INDUSTRY



70% of Chinese renewable energy companies were founded after 2010

4 of top 10 global electric car

global electric car manufacturers are less than 15 years old



STARTUPS ARE DOMINATING THE CLEANTECH INDUSTRY



8 of top 10

global solar PV manufactureres are less than 20 years old





SCALING CLEANTECH IN ASIA IS CHALLENGING

LACK OF ENTREPRENEURS



of all start-ups in Asia are in the cleantech sector

- 1. Lack of strong and experienced cleantech entrepreneurs
- 2. Best entrepreneurs not interested in cleantech
- 3. Significantly increases execution and investment risks



SCALING CLEANTECH IN ASIA IS CHALLENGING

LACK OF EARLY-STAGE RISK CAPITAL



global cleantech venture capital is invested in Asia

- 1. No shortage of private or public capital in Asia
- 2. Cleantech generally viewed as unattractive by most investors
- 3. Lack of understanding of cleantech as an asset class by non-traditional investors



SCALING CLEANTECH IN ASIA IS CHALLENGING

WEAK ECOSYSTEM



cleantech incubators and accelerators in Asia

- 1. Lack of accessible support for cleantech entrepreneurs
- Poor linkages between start-ups, larger companies, academia, government& investors
- 3. Significantly increases costs, risks, and time to market



ADB IS BUILDING A CLEANTECH ECOSYSTEM IN ASIA



TECH

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TECH

SUPPORTING ASIAN CLEANTECH ACCELERATORS

SEVEN accelerators supported

1000+ startups evaluated

100+ startups accelerated

20+ startups seed-financed



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SUPPORTING NEW CLEANTECH INVESTORS



India's first and only early-stage cleantech venture capital fund (\$25m) hosted by CIIE at IIM Ahmedabad

Supporting pipeline development, deal-sourcing and portfolio management

EXAMPLE OF INVESTMENTS



Provides energy intelligence to 400+ commercial, industrial and utility clients

🏶 Gold Farm

No 1. retail brand for solar pumps in India



Industry-leading zero-capex green building specialist





2 SUPPORTING ASIAN CLEANTECH INVESTORS



Recently launched low-carbon private equity fund (\$400m) based in Hong Kong and co-managed by ADB, Orix and Robeco

Supporting fund-raising, deal-souring, due diligence and portfolio management

EXAMPLE OF INVESTMENTS



India's leading cold-chain logistics company

FLUIDICENERGY

World-leading zinc-air energy storage technology



SUPPORTING CLEANTECH MARKETPLACES

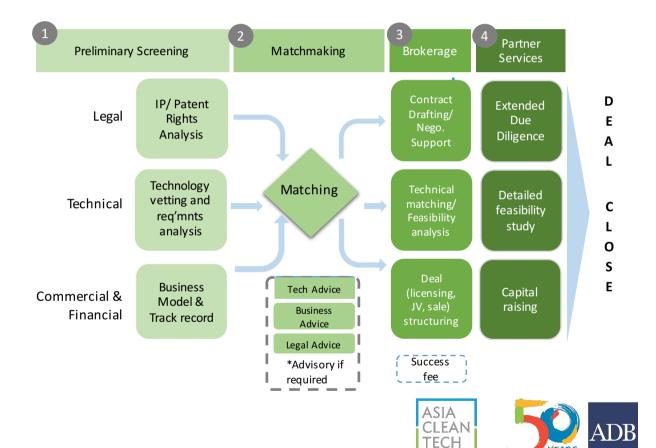


3

- One-stop shop for clean technologies
- Facilitates deals between cleantech owners worldwide, and adopters project developers in Emerging Asia.
- Backed by ReEx Capital, DNV and Asian Development Bank



DNV·GL



SUPPORTING CLEANTECH MARKETPLACES

BEC-TAD

Technology Assessment & Dissemination

- "Pop-idol" for next gen cleantech
- Selected cleantech companies assessed in public (around 100+ participants)
- Senior-level international jury from industry, academia, finance, government.
- Assessed according to technology attractiveness, market potential, regulatory & policy environment, and environmental& social impact
- Detailed recommendations to founder, policy-makers, industry, & investors













3



BUILDING A CLEANTECH COMMUNITY



NEW ENERGY NEXUS

- First global network of cleantech accelerators
- 30+ members that has supported 1000+ start-ups and helped raise \$2+ bn
- Co-founded by California Clean Energy Fund and Asian Development Bank









4

BUILDING A CLEANTECH COMMUNITY



ASIA-PACIFIC LOW CARBON SUMMIT

- 19-21 October 2016 in Changsha, Hunan, PRC
- Jointly held by Government of Hunan and ADB
- Showcase of successes and experiences in promoting development & deployment of LCT
- 280+ delegates from 31 countries.
- 48 companies exhibited. Nearly 10,000 visitors



KEY TAKE-AWAYS

#1. Tech transfer happens bottom-up: scalingcleantech in Asia requires strong local entrepreneurs

- #2. We need a stronger ecosystem to support cleantech entrepreneurs and start-ups in Asia
 - Attract more and stronger entrepreneurs
 - Attract new early-stage and non-traditional investors
 - Create a collaborative cross-sector community
 - Active local and cross-border match-making



THANK YOU

