

# The role of private sector in GHG mitigation

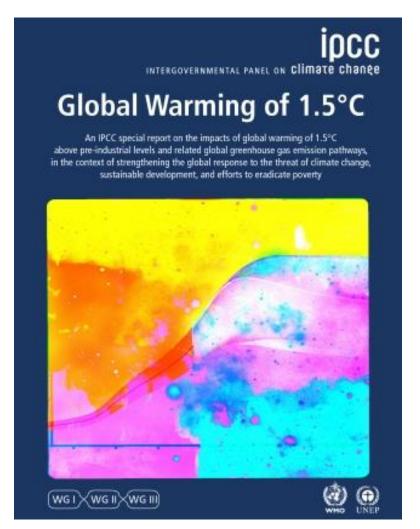
Bilateral Business Matchmaking Event for the Joint Crediting Mechanism, Nov. 7 2018

Romain Brillie, Country Representative to Mongolia, Global Green Growth Institute



# Limiting global warming to 1.5°c requires a paradigm shift





> Under emissions in line with current pledges under the Paris Agreement (known as Nationally Determined Contributions or NDCs), global warming is expected to surpass 1.5°C, even if they are supplemented with very challenging increases in the scale and ambition of mitigation after 2030.

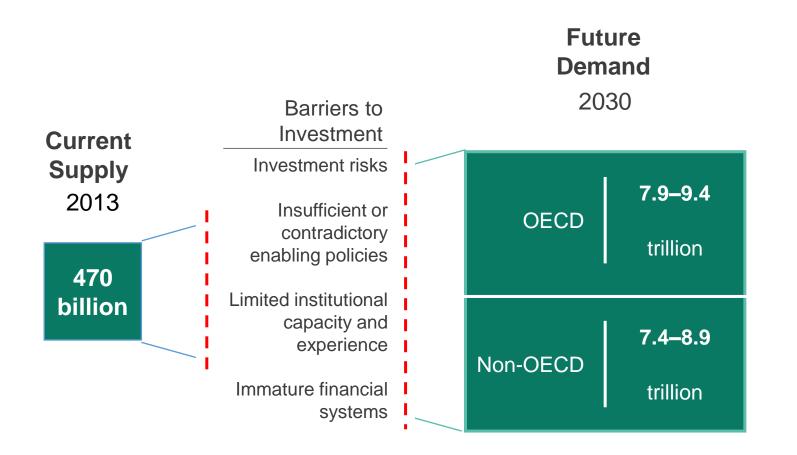
## > Limiting warming to 1.5°C requires a marked shift in investment patterns

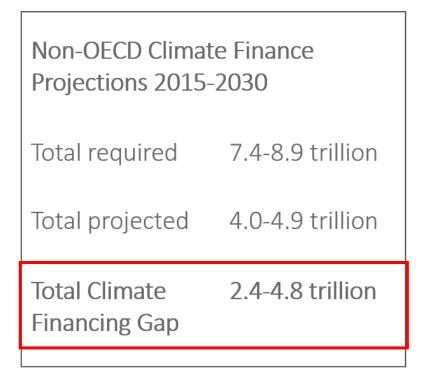
Investments in low-carbon energy technologies and energy efficiency would need to approximately double in the next 20 years, while investment in fossil-fuel extraction and conversion decrease by about a quarter.

Source: IPCC Special Report on Global Warming of 1.5°C, IPCC, Oct. 2018

## Private sector investment is needed to help fill the financing gap



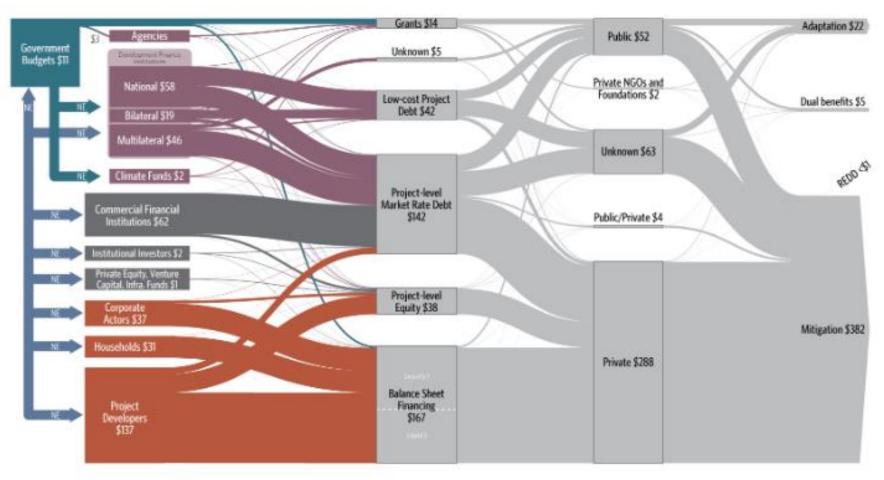




Source: 2013 supply and 2030 projected investment data from the IEA. OECD and non-OECD estimates extrapolated from IEA data. Clean energy finance used as a proxy for climate finance. All figures USD.

## Can the private sector be leading the change?





- > Private money already represents the largest part of climate finance flows
- > Project developers are the main source within the private sphere
- > Balance sheet financing is the main instrument used to finance private projects

Source: Global Landscape of Climate Finance 2017, Climate Policy Initiative

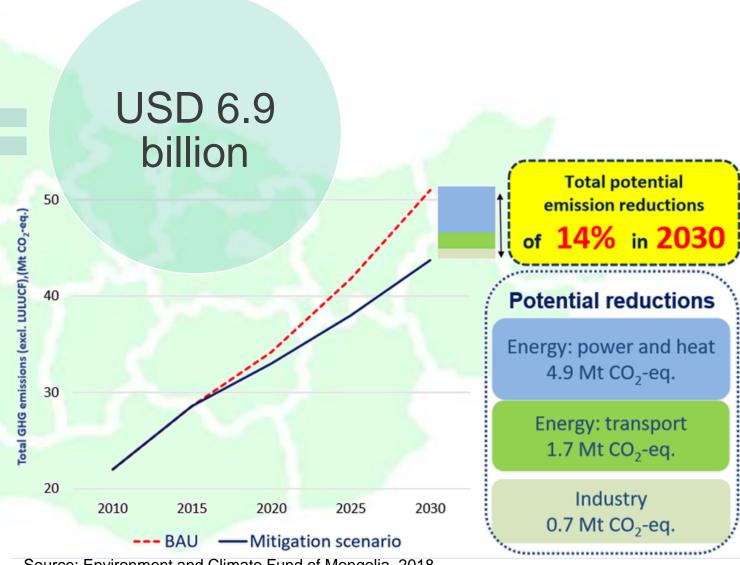


## Financing Mongolia's INDCs





- > Estimated **USD 3.5 billion** needed for mitigation, **USD 3.4 billion** for adaptation under the current NDC
- > Energy, transport, industry, construction and housing and agriculture sectors need investment to transition to low-carbon



Source: Environment and Climate Fund of Mongolia, 2018.

# Government to set a supportive policy and regulatory environment





### > Long and mid term policy documents

National Development Strategy (2008), State Policy on PPP (2009), National Security Concept (2010), **National Green Development Policy (2014), Mongolia INDC (2015)**, Sustainable Development Vision 2030 (2016)

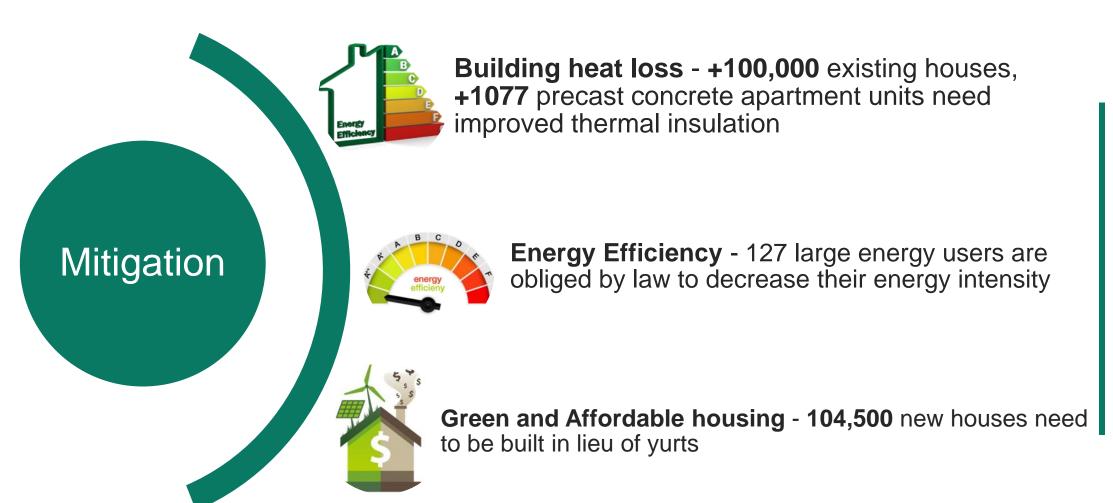
### > Sectoral laws, policies and programmes

Energy Conservation Law (2015), Renewable Energy Law (2009), National Energy Efficiency Action Programme (2017), Law on Water, National Water Programme, Law on Concessions (2010)



# Mongolia: example of untapped markets which require barrier removal, technology transfer





Total market size: **USD** 308.3M

Total market size: **USD** 158.5M

Total market size: **USD 755M** 

## Global Green Growth Institute at a glance

Mexico

Costa Rica



International Inter-governmental 26 Country 30 member programs countries

## Four Thematic Priorities:

- **Sustainable Energy**
- Water & Sanitation
- Sustainable Landscapes
- Green Cities
- Multi-Sectoral
- Member Countries

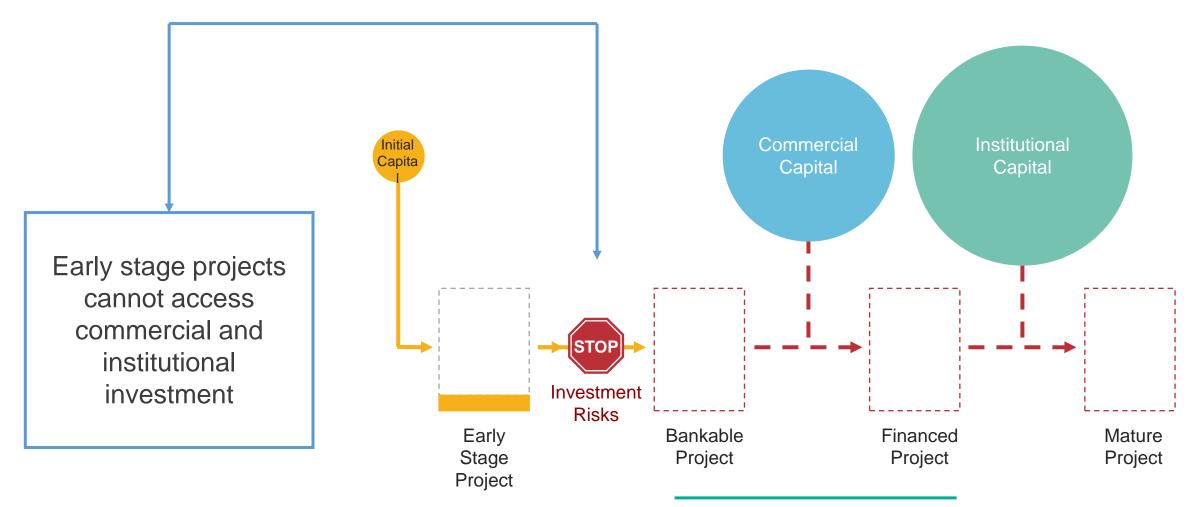


## Targeting impact on six Strategic Outcomes:

- 1.GHG emission reduction
- 2.Creation of green jobs
- 3.Increased access to sustainable services, such as, clean affordable energy, sustainable public transport, improved sanitation, and sustainable waste management
- 4.Improved air quality
- 5.Adequate supply of ecosystem services
  - 6.Enhanced adaptation to climate change

# High investment risk prevent early stage projects from becoming bankable





Project Development Stages

# GGGI supports establishing a conducive environment for bankability



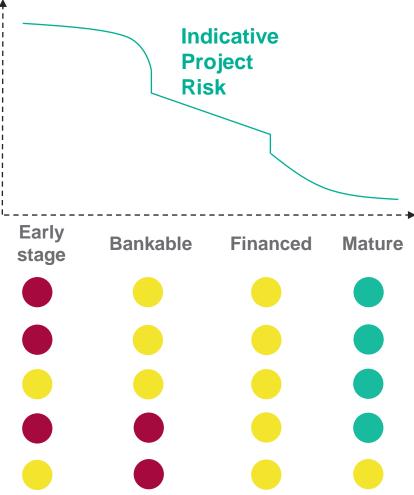
#### What is "bankable"?

> "Bankable" is achieved after early stage investment risks are sufficiently mitigate through dedicated public funds to meet the risk-return expectations of potential commercial and institutional investors.

Early stage projects cannot access commercial and institutional investors due to investment risks

- Political risk
- Regulatory risk
- Technology risk
- Credit risk
- Capital market risk

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Political Risk		
Regulatory Risk		
Technology Risk		
Credit Risk		
Capital Markets Risk		



### What we do, types of projects we work on



> WHAT: Develop a multi-country pipeline of bankable green projects and help government in green policy and planning

> **HOW:** Advise and plan with governments and the private sector

- Turn "ideas" and "plans" into bankable investments
- Design and structure projects and funds
- Reduce investment risk
- Mobilize and arrange investors

FINANCIAL INSTRUMENTS

**BANKABLE** PROJECTS

NATIONAL FINANCING VEHICLES

## Mobilizing private finance for mitigation: Mongolia Green Finance Corporation









- public and private finance at scale.
- First dedicated national green financing institution for effective and strategic financing of climate mitigation, adaptation and wider green growth policy measures
- Private sector managed = efficiency and transparency, public sector ensures policy support and financing.
- 2 Letters of commitment for USD 10M equity in total signed by the GoM and the Mongolian Sustainable Finance Association (under the MBA, 10 commercial banks).



rofitable

#### Reasonably profitable investment, supported by the Green Climate Fund

- GCF concessionality to de-risk the investment, Technical Assistance by expert orgs (GGGI, McQuarrie GIG, XacBank).
- Total facility size at USD 50M.
- Leverage financing of at least US\$27.4M loan financing US\$8.0M by GoM and US\$19.4M by participating financial institutions (PFI) at the initial stage.
- IRR of ~9% per year.





### Large potential for impact driven • -3,163,406 tCO2e (direct emissions), -632,182 tons of coal for 15 years' project lifetime, +2000 jobs.

- Large potential for scaling-up
- Investment need to realize NDCs alone = **USD 6.9 billion**.
- Estimated market size for three target markets > USD 1.2 billion.
- Several other markets to access: waste and sanitation, non-utility scale renewables, sustainable livestock and agriculture, water efficiency and treatment, forest products etc.

### **Thank You**



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