

#### Presenter bio

- Dr Ivan (37 years) is a PhD holder in Industrial Chemistry and Catalysis from the University of Science and Technology in Lille -France and has 2 Master's Degrees, one in Physico-Chemistry and another one in Pharmacy (drug design).
- Dr Ivan is the Executive Director of Rwanda Investment Group Ltd (Energy/Cement), and he managed key companies in private sector: Managing Director of Ngali Institute (projects incubator/engineering reference), CEO of RIG; Managing Director of Rwanda Energy Company Ltd (methane gas extraction, peat mining).
- Dr Ivan is the Chairman of Energy Sector Skills Council, Non Executive Director of Cimerwa (cement business), Chairman of Energy Private Developers (EPD) and Chairman of the Chamber of Industry.



### **RWANDA** Fast Facts

- Size: 26,338 sq.km
- GDP Growth: 8%
  (2012)
- GDP per capita:\$650
- Population:
  M
- Languages:
  - English

10,5

3

🗆 Swahili

**French** 

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#### 1. Rwanda is growing fast:

RWANDA

- Sustained average GDP growth rate of 8% p.a.
- Among top 25 fastest growing economies in the world
- One of five hottest countries for investment

#### 2. Untapped business opportunities in:

- Knowledge based sectors of ICT, BPO & Financial services
- Real estate & construction
- Energy

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## RWANDA

# **Top Reformer**

#### **Top Business**

- 1st Best gibbal reformer (Doing Business Report 2014)
- Most competitive place to do business in East Africa and
  2nd in Africa (Doing Business Report 2014)
- 32nd out of 189 countries (Doing Business Report 2014)
- Country credit rating upgraded to a "B" with a positive outlook by Fitch ratings
- 8<sup>th</sup> in Registering property (Doing Business Report 2014)
- 22nd in Protecting Investors (Doing Business Report 2014)

### **13th in Getting Credit** (Doing Business Report 2014)

### The Way Ahead, ENERGY

## RWANDA



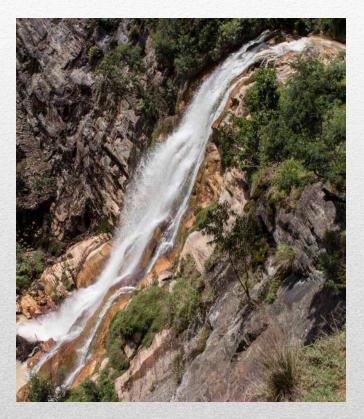
Energy generation capacity of 11 MW

- Power generation set to grow to 563
  MW by 2017 and over 1000 MW by
  2020
- Connectivity rate from 16% to 75%
  Opportunities in:
- Methane gas
- Geothermal (4 Sites)
- Micro Hydropower (333+

sites)

- Solar power
- Peat to nower deperation

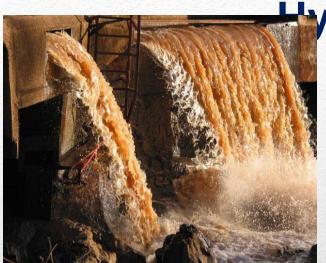
#### Energy Micro Hydropower among Which 21 totaling 20.9 MW are



being constructed, 20 other mini-hydro projects totaling 9 MW expected for 2014-15.

- 2 solutions: On-grid near the transmission lines, off-grid for villages (imidugudu) in remote areas.
- Mini and Micro Hydro considered in a large program for Rural Electrification using Renewable Energy Resources

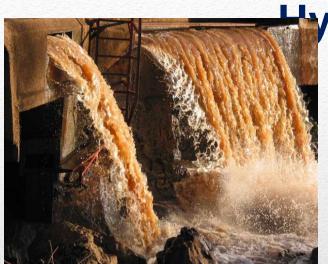
(hydro, solar home systems, off-grid





# Energy – Micro

Government of Rwanda created an enabling environment for renewable electricity power generation (Feed In Tariff); established a guaranteed price for electricity generated from renewable for a fixed time that provides a stable income stream and adequate return on investment; provide access to the grid and an obligation to purchase power generated.





#### Energy – Micro Vdropower • With a such good business

- environment, the Private Sector plays and will play an important role in the implantation of the Rural electrification.
- Challenges: access to early-stage financing for local private investor, lack of technical skills on the local market, the end beneficiary of the carbon credits Government versus Private Investor.

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