TOSHIBA

EU-Japan Business Collaboration in Third Markets (Africa)

Toshiba Energy Systems & Solutions Corporation

Dec 2019

TOSHIBA's Profile



Nobuaki Kurumatani Chairman & CEO



Satoshi Tsunakawa President & COO

TOSHIBA Corporation

Established	In 1875 by Hisashige Tanaka
Employees	128,697 Worldwide*
Sales	USD 36,935 million*
Common Stock	USD 2,000 million*
Total Assets	USD 4,2973 million*

*Consolidated basis. 1USD=¥100

Toshiba Energy Systems & Solutions Corporation **Toshiba Infrastructure Systems & Solutions** Corporation

Toshiba Electronic Devices & Storage Corporation

Toshiba Digital Solutions Corporation



Mamoru Hatazawa President & CEO

Established	In 2017
Employees	6,700
Sales	USD 6,527 million*
Common Stock	USD 100 million*

Power Systems Div.

Supercritical CO₂ Turbine **Business Promotion Office**

ISOGO Nuclear Engineering Center

Keihin Product Operations

Grid Aggregation Div.

Fuchu Operations

Hamakawasaki Operations

Fuel Cell Power System Center

Energy Systems R&D Center

Hydrogen Enegy Business Div.

DX Business Design Project Team

July 1, 2019

*Consolidated basis. 1USD=¥100

Branch Offices



Business Domain of TOSHIBA ESS Corporation

Contributing towards creating a Sustainable Society

Power Generation Systems







Nuclear Power

Heavy-Ion Radiotherapy System For Cancer Treatment



Transmission and Distribution / Energy Storage



Transformer



Supervisory Control And Data Acquisition Systems (SCADA)



Hydrogen-based Autonomous **Energy Supply System**



Stationary Battery Energy Storage Systems

Renewable Energy



Hydro Power



Geothermal Power



Solar Power



MOU to Support African Countries

Toshiba has been collaborating in power generation projects not only as the equipment suppler, but also as personal skill development and training for the Owner

African Countries and

- Sep 2014 Ethiopia **Ethiopian Electric Power**
- Dec 2015 Tanzania Tanzania Geothermal Development Co. Ltd
- Aug 2016 Djibouti **Great Rift Valley** Office Djiboutien de Développement de l'Energie **Géothermique (ODDEG)**
- Aug 2016 Uganda **Ministry of Energy and Mineral Development**
- May 2018 Malawi Ministry of Natural Resources, Energy and Environment













Collaboration with French Companies for Africa

Toshiba is collaborating with French companies for renewable energy projects such as hydro and geothermal for Africa



<u>Eiffage Energy Systems - Clemessy</u>

Toshiba has signed MoU with Clemessy to develop a specific geothermal project in Africa.

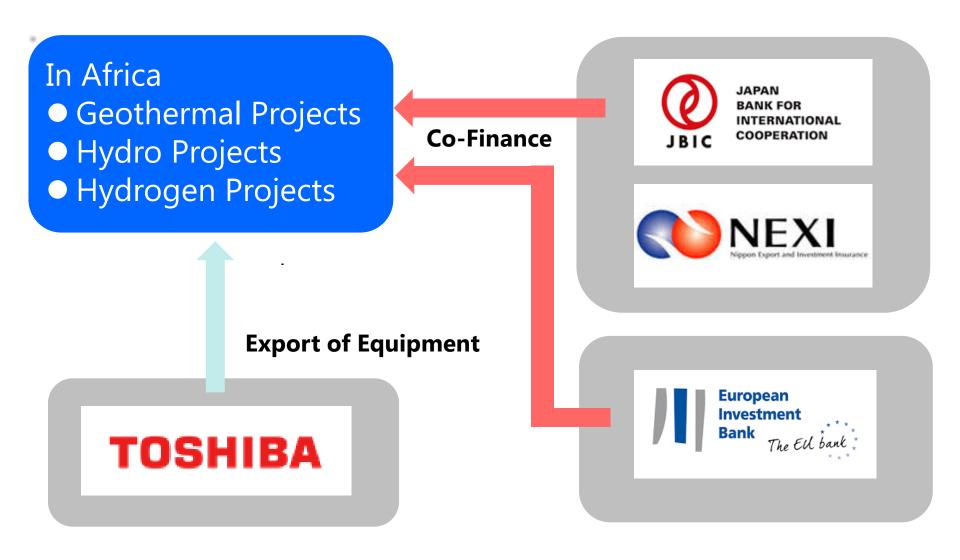


Vinci Construction

Toshiba has signed MoU with Vinci Construction to develop hydro and geothermal projects in Africa.



Concept of Co-Finance of EIB and JBIC/NEXI



TOSHIBA

Thank you

