### Waste to Energy

**Burkina Faso**

**Description**
Plan for expansion of grid-connected power plant in Ouagadougou, current phase one capacity of 275kW to phase two capacity of 550kW reaching 1.375 MW in phase three by 2017. Electricity is generated with biogas, made from human, vegetable and animal waste. Income is from electricity, fertilizer and heat sales. The largest brewery in Burkina Faso will be the supplier of biomass and is the intended buyer of industrial heat.

**Investment requirement**
An investment of EUR 2.3 million is proposed in two steps. Assuming a non-bankable first increase in capacity, shareholders will receive 20% in the company for a EUR 400,000 investment in combination with a EUR 400,000 subordinated loan. Assuming the second step in the capacity increase is bankable, shareholders will be offered an additional share of 15% for an investment of EUR 750,000 in combination with a EUR 750,000 subordinated loan. The scenario for international expansion with another four power plants in the period 2016-2020 foresees an investment of EUR 12 million.

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### 28 MW Solar Power Plant

**Ghana**

**Description**
Construction of a 28 MW grid-connected photovoltaic (PV) solar plant in Ghana. Power produced sold into grid subject to terms of power purchase agreement (PPA) with Electricity Company of Ghana.

**Investment requirement**
Total capital expenditure of USD 56 million. Developer seeks feasibility grant of USD 1 million to complete feasibility study. Developer has already received verbal commitments for the construction finance of USD 36 million from development finance institutions (senior secured debt), and USD 20 million equity from pension funds.

**Ghana Capital Partners (GCP) Solar**  
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### 44 MW Hydro Power Plant

**Côte d’Ivoire**

**Description**
Design, construction, financing and operation of a 44MW hydro power plant on the Bandama River, Côte d’Ivoire, under a concession agreement signed with the Government in December 2013.

**Investment requirement**
The project’s total cost is estimated at USD 128 million and is expected to be financed using a 75:25 debt-to-equity ratio. Following the recent signature of a joint development agreement, the project is well advanced in its development phase (feasibility completed, concession signed and technical design underway). However, the project currently seeks up to USD 3 million of additional development capital to support structuring and due diligence activities required to complete the sourcing of the project’s debt/equity financing.

**Ivoire Hydro Energy (IHE)**  
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**Programme Waste to Energy West Africa W2E**

**Description**
A biogas program of waste to energy starting with a 100 kW project at a slaughterhouse in Dakar to strengthen waste recycling and produce clean energy.

**Investment requirement**
The first phase of the project is estimated to run for ten years and has been projected to require USD 88,748,954.02 of which (70%) USD 60,914,398.61 is expected as single digit long term debt finance and (30%) USD 27,834,555.41 is expected in equity investment.

**Thecogas Senegal SARL**
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**Production of Ethanol from Rice Straw in Rukubi North Central Nigeria**

**Description**
Construction of 50 million liters per year ethanol plant and generation of 13 MW from rice straw and other agricultural feedstocks. Project has guaranteed off-takers.

**Investment requirement**
Total project costs are USD 100 million. Project developer seeks USD 50 million in equity investment from a foreign investor, USD 30 million from local investors, and will contribute USD 5 million in equity from own funds. Project developer further seeks USD 15 million in long-term loans at five percent and USD 5 million in short-term loans at 13 percent.

**RoyalDream Builders Initiative**
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**Leasing Solutions for Solar Innovations**

**Description**
Business involves the installation of at least 250 innovative micro-facilities (USD 11,606,000 investments) over 5 years for B2B customers. Some of the main features include:
- Affordable facilities due to their micro size: dimensioning infrastructure to the population needs;
- Mobile micro-facilities designed in a container: easy to install across urban and rural areas (truck delivery);
- Autonomous and sustainable micro-facilities powered by solar energy;
- Adaptable micro-facilities: from bank agencies to retailing boutiques, from cybercafés to health centers.
Developer is structuring a leasing solution for these micro-facilities to propose an integrated financial and technical offer adapted to the financial offer to each B2B customer’s capabilities.

**Investment requirement**
The special purpose vehicle is structured to gather funds from complementary sources (impact investors, equity crowdfunding, development finance institutions (DFIs)) with specific capital requirements. The first round consists of USD 550,000 with an estimated debt/equity of 60/40.

**Station Energy Services**
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**Nigeria**

**Nigeria**

**Senegal**

**Senegal, Côte d’Ivoire, Uganda, and Burkina Faso**
**15 MW Biomass Power Plant**

**Description**
The project is a 15 MW biomass fueled power plant. The project aims to transform biomass (typha reeds and rice husks) to a fuel for renewable energy production. Electricity produced is sold to the grid in the terms of a power purchase agreement (PPA) with the national electricity company Senelec.

**Investment requirement**
The total project cost is USD 44 million—either on BOO (Build, Own, Operate), or on BOOT (Build, Own, Operate and Transfer) basis. The project is seeking financing of USD 13 million as capital representing 30% of the capital needed for the construction of the plant. The balance of the funds (70%) is expected to come from bank loans subsidies and/or other available development assistance funds.

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**Solar Power to Commerce**

**Description**
Roll-out of solar PV solution designed to power commercial activity and generate power for rural dwellers and farming cooperative members in Sub-Saharan Africa. The community members will be presented with several flexible options including leasing, purchase on credit and outright purchase.

**Investment requirement**
Total project costs are USD 8 million. Project developer seeks 21% debt, 69% equity and will contribute 14%. Investments will ideally be made in two injections, the first USD 5.5 million of equity in the first year and the rest in year seven.

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**Decentralized Rooftop Solar Photovoltaic (PV) Systems**

**Description**
Set up a special purposes vehicle (SPV) through an energy supply company (ESCO) model to install rooftop PV systems on high end residential, commercial and industrial buildings, which is estimated to add 17 MW of decentralized solar photovoltaic grid tie systems to the urban grid in Dakar within 2 years. The billing will be carried out by the utility SENELEC though a triangular agreement between SENELEC, the ESCO SPV and the beneficiary of the PV system.

**Investment requirement**
The total project cost is EUR 32.9 million consisting of 30% equity and 70% debt. The financial equity partner will be offered 45% convertible shares against his 30% contribution in the SPV (EUR 9.8 million). The 70% of debt will consist of 30% as debentures (EUR 9.8 million) by the financial partner earning 6% annual interest repayable within eight years on a half yearly basis (Capital + Interest) after the 1st year of operation and 40% as a bank loan (13.1 million Euros) repayable within 7 years at 4% interest with a 1 year moratorium on capital repayment.

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