# WASTE-TO-ENERGY from the Polish perspective

Astana 2017

Łukasz Dziekoński Member of the Board Marguerite Fund

### **ABOUT US**

### MARGUERITE FUND

**MANDATE** 

- ➤ The Marguerite Fund is a EUR 710m long term equity fund targeting infrastructure investment in EU28.
- ➤ The Fund invests in 4 sectors: Telecom (ICT), Transport PPPs (TEN-T), Energy Infrastructure and Mature Renewable Energies (including Waste-to-Energy projects).
- Advised by independent Luxembourg-based company: Marguerite Adviser.

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## CASE STUDY POZNAŃ WASTE-TO-ENERGY PPP PROJECT

### POZNAŃ WtE CASE STUDY

### MUNICIPAL WASTE MANAGEMENT IN POLAND

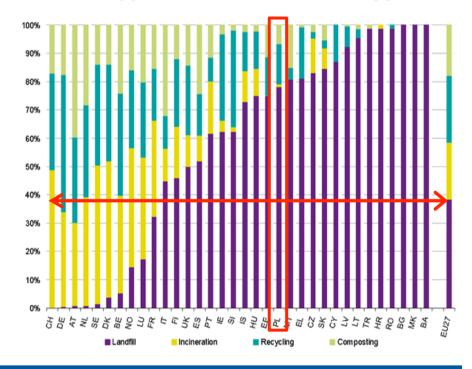
### MUNICIPAL WASTE MANAGEMENT IN POLAND

- ▶ Poland generates 10 million tons of Municipal Solid Waste ("MSW") per year. Almost 80% of it is landfilled.
- ► The 99/31/EC Directive on waste storage requires member states to limit the amount of biodegradable municipal waste directed to landfills.

#### TARGETS FOR POLAND

- 1. Reduction of biowaste in landfills to 35% of the 1995's level by 2020;
- 2. Recycling targets for package waste, bulky waste, demolition waste;
- 3. Closing of non-compliant landfills. Reduction in number of landfills in operation from 1,321 in 2004 to 200 in 2014.

### MUNICIPAL WASTE TREATED IN 2009 BY COUNTRY AND TREATMENT CATEGORY



WITH >75% OF MSW LANDFILLED POLAND DOES NOT COMPLY WITH THE EU WASTE RECYCLING TARGETS AND COULD POTENTIALLY FACE PENALTIES

THE GOAL IS TO REACH THE 35% HURDLE IN 2020.

### POZNAŃ WtE CASE STUDY PROJECT OVERVIEW

#### **GENERAL INFORMATION**

- Sita Zielona Energia owns a 28.5 year DBOFM concession for a 210kt p.a. WtE in Poznań, Poland
  - Construction is on schedule and within budget; expected to be completed by end-2016
  - Total capex of PLN 905m
- Revenues are availability based with no volume risk
- ▶ The Fund holds a 50% interest in the project
  - The remaining 50% is owned by SITA Polska, a leading service provider in recycling and waste

### **KEY OPERATING METRICS**

**CAPACITY** 210 kt p.a.

CAPEX PLN 905m

CONSTRUCTION

**COMPLETION** end 2016

(EXPECTED)

**CONCESSION EXPIRY** 2041

**REMAINING** 25 years (from

**CONCESSION LENGTH** construction completion)

### **PROJECT LOCATION**



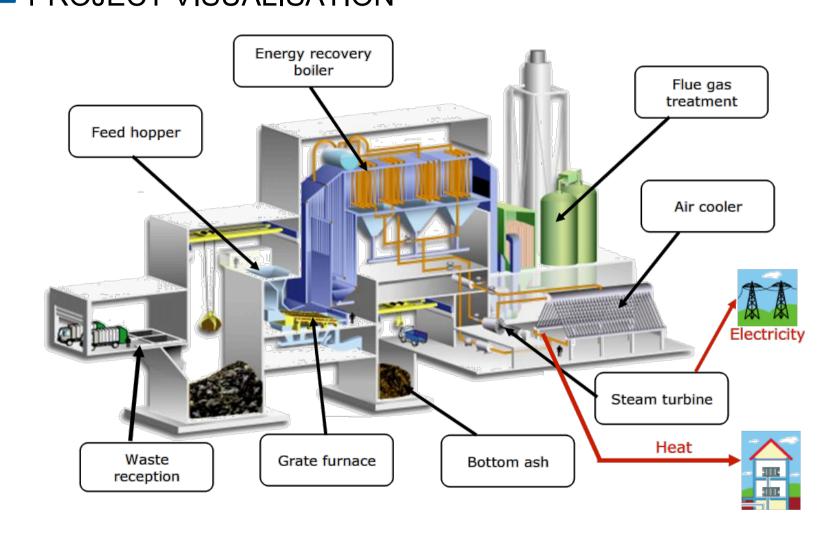


### **PROJECT FINANCING**

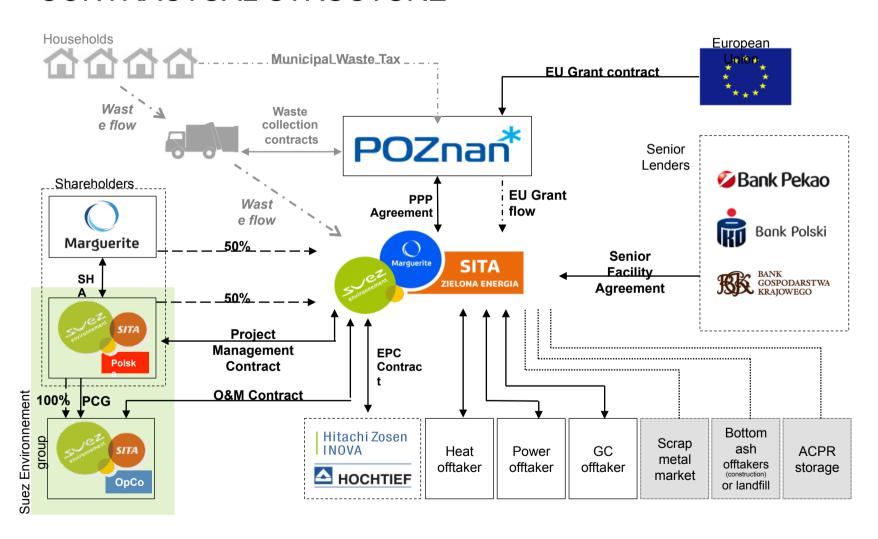
- ▶ Financial Close: April 2013
- ▶ PLN 735m term loan provided by PKO BP, Peako SA and Bank Gospodarstwa Krajowego
- ▶ **Debt-to-equity:** 80:20
- ▶ Debt partially replaced by a EU subsidy of PLN 330m.
- ▶ Maturity: 20 to 22 years from COD
- ▶ Benefitted from good relationship between Marguerite and the Marguerite Fund's investor PKO BP

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### POZNAŃ WtE CASE STUDY PROJECT VISUALISATION



### POZNAŃ WtE CASE STUDY CONTRACTUAL STRUCTURE



### POZNAŃ WtE CASE STUDY RISK MATRIX

RISK	CITY	SPV
Update of EIA Report and building permit application		✓
Design documentation		✓
Construction delay and cost overruns		✓
Waste volume and calorific value risk	✓	
Waste throughput, heat and power output performance		✓
Heat, power and green certificates prices	✓	
Assumptions on recyclable metals and bottom ashes		✓
O&M costs overruns		✓
Financing (senior debt, subordinated debt, equity)		✓
EU Grant availability (cap)	✓	✓
Exchange rate (EUR/PLN) variation between BAFO submission and start of construction	✓	
Interest rate variation between BAFO submission and hedging transaction entered at start of construction	✓	
Change in Law (cap)	✓	✓
Force Majeure & Fait du Prince	✓	