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Project Location





County of Cacuso – Malanje Province Angola, 370 km of Luanda.









Shareholders



ODEBRECHT

Sonangol

40%

40%

20%

Agricultural Area

- 1st phase agricultural area = 36.921,00 ha
- 2nd phase agricultura area = 33.185,00 ha
- Total agricultural area = 70.106,00 ha

Production Phase I – Crop 18/19

- 2,2 millions of sugar cane;
- 256 millions ton of white cristal sugar;
- 30 millions m³ of anhydrous ethanol;
- 235 GWh of energy export.

Investment

1st Phase

USD 750 Millions

2nd Phase

USD 520 Millions

Production Phase II - Crop 23/24

- · 4,4 millions of sugar cane;
- 512 millions ton of white cristal sugar;
- 60 mil m³ of anhydrous ethanol;
- 342 GWh of energy export.

Main Information



Land use in Angola

LEI SOBRE A CONCESSÃO DE TITULARIDADE DO USO E APROVEITAMENTO DA TERRA

DISPOSIÇÕES GERAIS E PRINCÍPIOS FUNDAMENTAIS

l. A presente Lei estabelece as condições básicas para a concessão de titularidade, uso e aprovenamento de terra para una agracios, por pessoas surguiates e colectivas.

As modalidades e condições de concessão de terrenos incluindo nos forais das Cidades, Vilas e es esta autominimanes e sumanyoca que somecamos que acresima incrumina moi sorias una circanuea, y mas e expectivos planos de urbanização são, com as necessidades adaptações, reguladas pela legislação vigando antinúval, nos turques municipas mada nerico que e de E de E di Constitucional. vigente aplicável, nos termos previstos pelo artigo 95,º da Lei Constitucional.

 A terra na respuence de Angola integra o tunco nacionas de terras.
 Entende-se por fundo nacional de terras o conjunto constituido pelo solo, subsolo, o leito dos cursos de ámpre lagos a lagore, se áquas territoriais hom como a planeforma continental que (Fundo Nacional de Terras) e. concense se por tunno micrones de territo e conquento constituido pero soto, sursetto, o reno cos cursos de águas, lagos e lagoas, as águas territoriais, bem como a plataforma continental que comprehen o territoria de barroto.

compoem o territorio da Repubnea de Angola.

3. O serviço de cadastro organizará regularmente o balanço do fundo nacional de terras de acordo com

o seu grau de utilização.

O Estado reconhece e protege o direito de toda a pessoa singular ou colectiva, dotada de capacidade

lutidad a processar appropriamento de toda.

2. À superfície da terra sobre a qual será constituido o direito de uso e aproveitamento, será fixada em função da finalidade do aproveitamento, condições regionais e da capacidade de aproveitamento para jurídica, ao uso e aproveitamento da terra.

o ereno genoasstaua peso requereme. 3. A concessão da titularidade à pessoa singular ou colectiva, pública ou privada, quer nacional, quer SE concessao da munariuade a pessoa singuiar ou colectiva, publica ou privada, quer nacional, quer serrangeira, deve obedecer às normais próprias constantes do regulamento, tendo-se sempre em conta

as orientações para o desenvolvimento socio-econômico nacional.

O Estado reconhece e garante o direito de toda a pessoa singular e colectiva, à aquisição do direito

2. Para a concessão da terra às pessoas singulares e colectivas, nacionais e estrangeiras será sempre

a) Os interesses nacionais e do desenvolvimento do país; b) O aproveitamento efectivo dos terrenos conscendos ou a conceuer e a capacidade demonstrada pelo requerente; e) A garantia às populações do direito aos terrenos por elas ocupadas e explorados com habitações e entreres

 A concessão da terra para uso e aproveitamento adquirese mediante licença emitida pela autoridade culturas. 2. O concessionario adquire nos termos gerais da legislação vigente aplicável e da presente Lei. O

3. O uso e fruição do subsolo pertencem ao Estado que é responsável perante o concessionário por

eler o convessionário pagará ao Estado uma prestação anual pela

✓ The use and land concession in Angola was regulated in 1992;

✓ Created the National Land Fund;

✓ The concessions are made Government considering the national socio-economic interest;

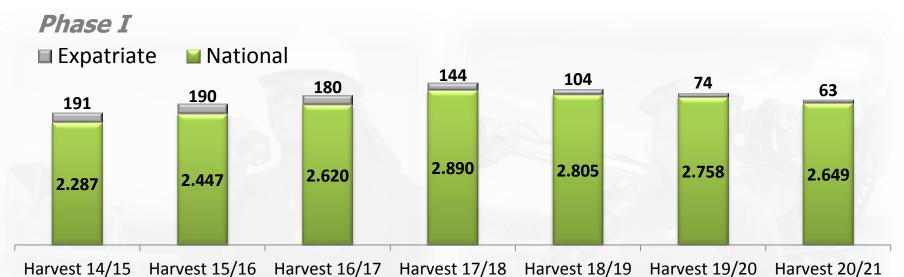
✓ Can be made public or private, collective or singular people for a period of up to 45 years.

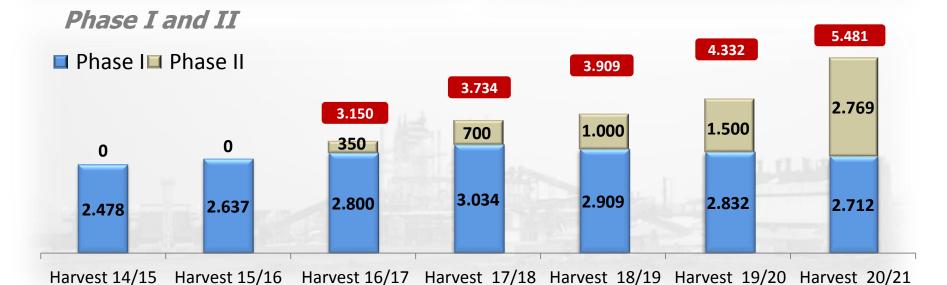
PEOPLE



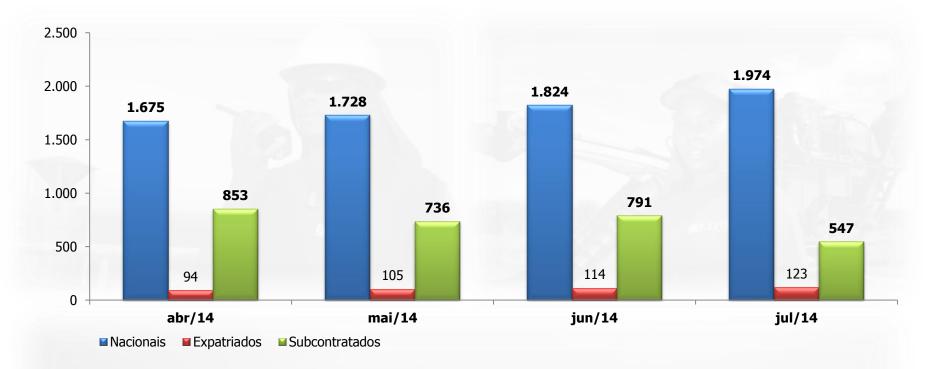
Employment Generation







Effective Evolution – Direct and Indirect

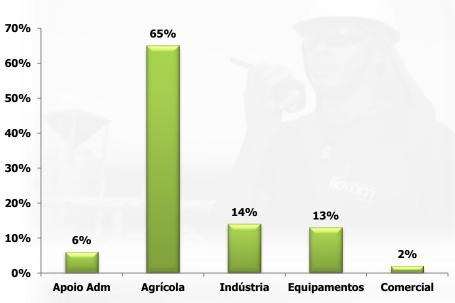


Effective	Apr-14	May-14	Jun-14	Jul-14
National	1.675	1.728	1.824	1.974
Expatriate	94	105	114	123
Subcontractors	853	736	791	547
Total	2.622	2.569	2.729	2.644

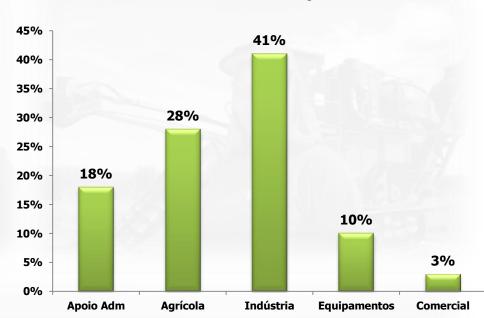
Effective Distribution by Area/Nationality







Área distribution – Expatriates

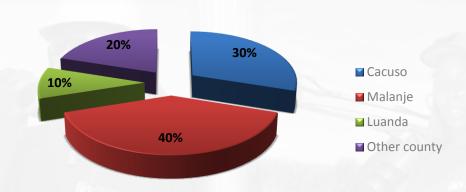


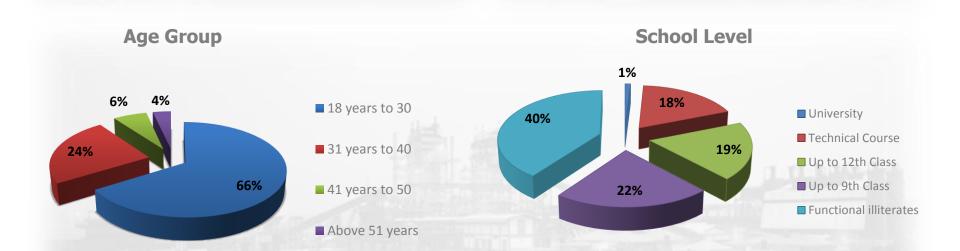


National profile members



Origin of National Contracts Effective





General Working Conditions



4.800 meals are served daily under the supervision of a dietitian.







A fleet of 45 buses carrying 2.000 members daily.



Housing



200 national and expatriate members are housed in a structure that offers:

- √ Feeding;
- ✓ Internet;
- ✓ Rooms with air conditioning, Tv and minibar;
- ✓ Laundry Services;
- ✓ Structure of drinking water;









Housing

Companhia de Bioenergia

- ✓ Weekly fellowship;
- ✓ Festivities in festive dates;
- ✓ Football Tournaments;
- ✓ Tours sights on Sundays;



Gym



Playroom



Living area





Safety





Team of nine techinicians of Occupational Safety led by an Enginner of Work Safety.

- ✓ Investment of \$ 3 million in equipment and transning in SHE
- ✓ Deployment of the Emergeny Response Plan;
- ✓ Emergency Brigade;



Occupational Hygiene:

- ✓ Environmental Risk Assessment physical, chemical and biological;
- ✓ Plan for chemical, toxic and flammable hazards.

Safety



Security Management System with risk analysis based on OSHAS 18.001:

- ✓ Security Analysis Task;
- ✓ Preliminary Hazard Analysis;
- ✓ Work Instruction;
- ✓ Work Permit Critical Risk;





All members receive uniform and individual safety equipment.

Occupational Health





Medical Corporate Structure

- ✓ Medical Clinic that serves 24hours;
- ✓ Medical team with 2 doctors and 12 nursing technicians with 2 ambulances;
- ✓ International Health Plan ALLIANZ;
- ✓ Aerial medical evacuation in case of emergency;
- ✓ Laboratory of Clinical Analysis;
- ✓ Agreements with Hospitals of Luanda and Malanje.





Expatriate members receive Malaria Test Kit and medicine.

Investing in People





Partnership with the College of Agricultural Sciences in Huambo



Structuring the CEFOPROF of Cacuso

- Partnership with INEFOP for training of 345 profissionals for industrial operation through SENAI;
- Partnership with the College of Agricultural Sciences in Huambo;
- Support CEFOPROF of Cacuso on structuring laboratories;
- Partnerships with Medium Agrarian Institutes of Malanje, N'Dalatando and Wako-Kungo;
- Partnership with the School Eiffel of Malanje;
- Partnership with Don Bosco school in Adult Literacy;







Investing in People - Agricultural



Training held until April/14

36 Sugarcane Harvesting Machine Operators

353 Tractor Operators;

91 Drivers;

48 Yellow Machine Operators;

40 Automotive Mechanics and Electricians;

90 Farm Leaders;

- **Incomes**: from US\$ 230 (MWage : US\$ 150)





Practical & Theoretical Training



Simulators of Case and John Deere, to train harvesting operations



Technical Seminar for Agricultural Leaders

Investing in People - Industry



Professional formation and training to attend the operation of industrial plant



All members trained by the Rules of Safety Work.



140 Industrial Operators30 Laboratory Analysts

- 30 Industrial Mechanics
- 30 Industrial Electricians
- 15 Instrumentalists
- 15 Boilermakers
- 15 Welders
- 15 Mechanic Turners

Transfer knowledge through pratical training.



SOCIAL HIGHLIGHTS





Social Development Program



Promote actions to support basic education to eliminate illiteracy and professional qualification.



Incoming Generation

Promote actions that aim empowering of the population in activities that can generate income.



Health

Promote actions of education and awareness of good health pratices.



Sport, Culture and Leisure

Promote actions to encourage sports, cultural and leisure activities.







Dom Bosco

Education



- √ 180 people are part of the Literacy Program for Adults;
- ✓ Lectures on Environmental Education in the neighborhoods;
- ✓ Courses of Excel and Word;



Excel & Word courses





Adult Literacy in partnership with Don Bosco School



Incoming Generation



- ✓ Partnership with the Program for Family Agriculture Kukula Ku Moxi benefiting over 700 families;
- ✓ 29 districts benefited;
- √ 275 tons of vegetables produced in 2013;
- ✓ US\$ 2.5 million invested in 2013





João Agostinho da Costa works as a tractor operator in Biocom and his wife is part of the cooperative.

Live in the Luxilo neighborhood.



Family Farming



Health



Projects in Health

- ✓ Campaigns Blood Donation, prevention of Malaria, Vaccination;
- ✓ Safe Child Births for mildwives of Kukula Ku Moxi.



Lectures on malaria and HIV AIDS. prevention









Sport and Leisure



Projects in Sport

✓ 80 young people, from the community, have Judo and Jiu-Jitsu classes in Palanca Negra School;

Projects in Cultural Area

√ 800 children in movie sessions;



Jiu-Jitsu and Judo class



Movie sessions for the children



Relationship with the Community

- ✓ Meetings with Sobas and support to local traditions;
- ✓ Regularization of identification documents;





Traditional Ceremony with Soba

Meeting with Sobas





Support on issuance of the birth certificate and identification

Community visit

ENVIRONMENTAL HIGHLIGHTS



Industrial Technology



- ✓ Investment of \$ 2.5 million in environmental monitoring programs;
- ✓ Investment of \$ 150 million in environmental technologies.
- ✓ Brazillian Industrial technology with diffuser system;
- ✓ Generation of electricity from Biomass bagasse or wood resulting from vegetation removal;
- ✓ Production of Anhydrous Ethanol MEG Methyl Etinelo Glycol in addition to gasoline;
- ✓ Production of white crystal sugar (color 150) Compact Industrial Plant.









Industry – Environmental Technology



- ✓ Control of air emissions from boilers Boiler soot is used to fertilize the cane;
- ✓ Effluent Treatment Station Stillage and bleach are used in fertigation of sugarcane;
- ✓ Water Treatment Station reuse of wastewater after treatment in closed circuit;
- ✓ Wastewater Treatment Plant for the Equipment Maintenance Unit— reuse of wastewater after treatment in closed circuit.





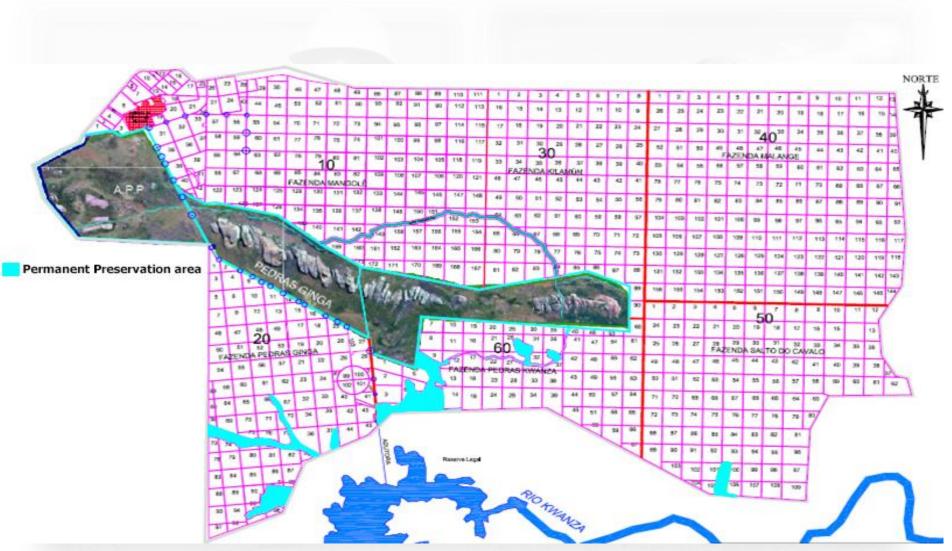




04

Agricultural Processes – Environmental Technology





Don't have a clear definition in the act as areas of permanent reserve and riparian vegetation.

Agricultural Processes – Environmental Technology



Collecting seeds in the region



Seeding of various species



Seeds selection



Seedlings ready



Sowing seeds



Reforestation



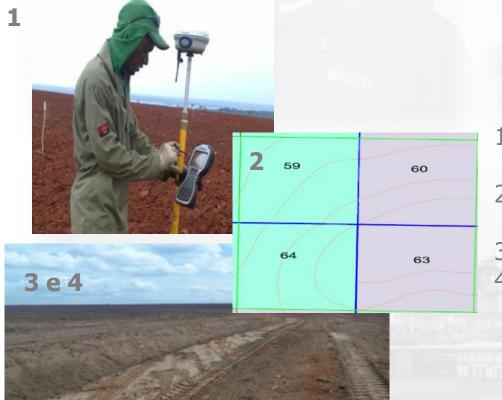


Agricultural Processes – Environmental Technology



Soil Systematization

Terracing: The construction of terraces or large embedded base is one of the most efficient practices to control erosion on cultivated land.



- 1. Markings of carriers in the field with the use of surveying equipment.
- 2. Altimetry survey of the land to verify the need for terracing.
- 3. Marking Terraces.
- 4. Construction of terraces to conserve soil without risk of sheet erosion.

Agricultural Processes – Environmental Technology



Planting and Irrigation System

Planting and harvesting **100% mechanized**; Planted area until August/14: 7.400 ha; Irrigated crop in the harvest 14/15: 4.767 ha; Irrigation: Grant of 0.389 m³/s













Thank you!

Carla.pires@odebrecht.com