

Environmental Management System & Sustainability Practices in Socapalm (Cameroon)

Second Palm Oil AFRICA
17th Oct 2013, Libreville (Gabon)
Presented by Ir Pierre Bois d'Enghien
Sustainable Development Department (SOCFIN Group)



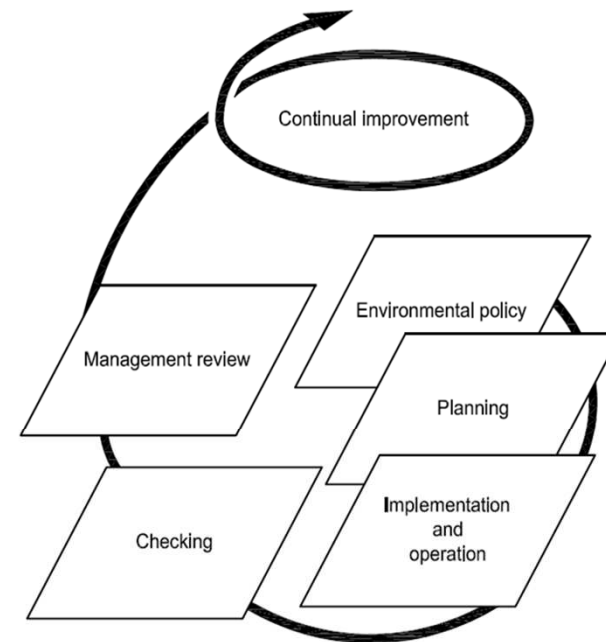
Presentation outline

1. Socfin group's strategy
2. HSE Policy
3. Planning
4. Implementation
5. Checking
6. Management review
7. Sustainability practices
8. Question / answer



Socfin group's strategy

- Creation of the Sustainable Development Department in November 2010
- Final goal is obtaining certification (ISO 14001, OHSAS 18001, SA 8000 and RSPO) for all Group projects
- Priority is on ISO 14001 rather than RSPO (good stepping stone)



Socfin group's strategy

Achievements so far:

- Indonesia: all estates are already ISO 14001 and OHSAS 18001 certified (9.600 ha of rubber and 38.500 ha of oil palm);
- Indonesia: 6 plantation sites are RSPO certified (23.300 ha); the goal is to have all sites certified by the end of 2014;
- Cameroun (Socapalm): implementation of an Environmental Management System consistent with ISO 14001 since March 2011;
- Certification audit is being carried out on 4 sites (Eseka, Mbongo, Mbambou, DG), more than 12.000 ha of oil palm;
- Implementation of an Environmental Management System consistent with ISO 14001 in Côte d'Ivoire (SoGB and Sud Comoé), Sierra Leone (SAC), Liberia (Salala), Nigeria (Okomu), etc.
- Participation in RSPO National Interpretation Working Groups in Sierra Leone, Cameroun, Nigeria.



The 3 Socapalm production sites are the very first oil palm production sites that are ISO 14001 certified in Central Africa.

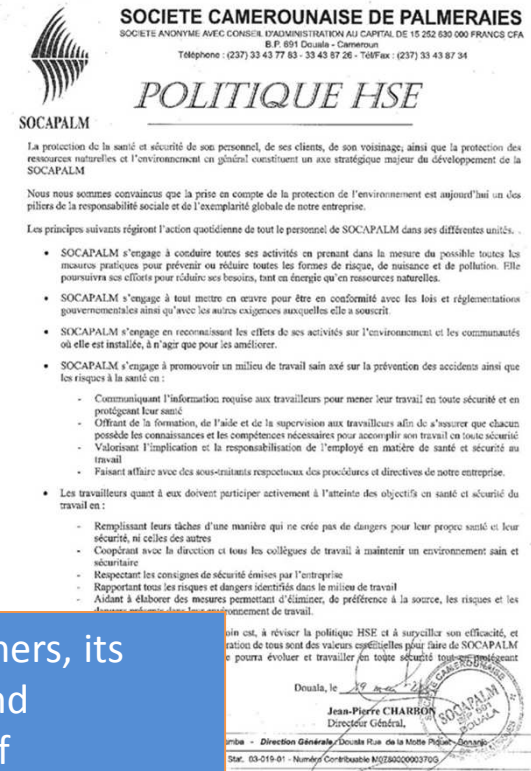




HSE Policy

- **§ 4.2 ISO 14001**
- *HSE Policy signed in May 2010*
- *Plan – Do – Check – Act*

Protecting the health and safety of its employees, its customers, its neighbours, and the protection of natural resources and the environment, constitute a major strategic focus of SOCAPALM's development.





Planning

- **§ 4.3 ISO 14001**
- **Plan – Do – Check – Act**
- Environmental aspects: by initial environmental analysis – list of significant environmental aspects (SEA)
- Legal requirements: regulatory monitoring, obtaining all necessary permits
- Objectives, targets and programmes: management plans, action plans, etc.

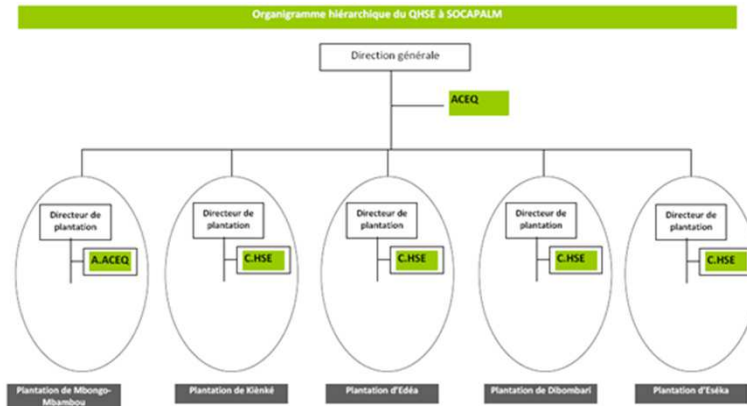
Grille d'évaluation des aspects/impacts environnementaux																
sites	Activité Produit Service	Types d'aspects	Aspect	Fonction nement	Entrant Sortant	Impact Environneme ntaux	Reglement ation		Evaluation			Note brute	Maitrise		Note finale	Niveau de priorité
							R	CR	O	S	I		Pre	Pro		
		Consommat ion eau	Consommation eau de Forage	Normal	Entrant	Diminution des ressources naturelles	oui	Non	8	8	8	64	1	1	64	Elevé
		Consommat ion énergie	Consommation Hydrocarbure	Normal	Entrant	Diminution des ressources naturelles	Non	Non	8	4	4	32	1	1	32	Moyen
		Consommat ion énergie	Consommation Autres énergies	Normal	Entrant	Diminution des ressources naturelles	Non	Non	16	8	16	256				





Implementation

- **§ 4.4 ISO 14001**
- *Plan – Do – Check – Act*
- Resources, roles, responsibility and authority (Human resources, financial resources, etc.)
- Competence, training and awareness
- Communication (internal and external)
- System documentation
- Control of documents
- Operational control
- Emergency preparedness and response



ACEQ: Assistant Chargé de l'Environnement et de la Qualité

A.ACEQ: Adjoint à l'Assistant chargé de l'Environnement et de la Qualité

C.HSE: Correspondant Hygiène sécurité et Environnement du site





Checking

- § 4.5 ISO 14001
- Plan – Do – **Check** – Act
- Monitoring and measurement
- Evaluation of compliance
- Nonconformity, corrective action and preventive action (including annual audits by SDD)
- Control of records
- Internal audit

POINT / OPERATION		CONFORME (O, N, N/A)	COMMENTAIRES / ACTIONS A PRENDRE
PEPINIERES			
Magasin produits chimiques			
Les produits chimiques (engrais) et substances dangereuses (herbicides, fongicides, insecticides, etc.) sont stockés dans un container sécurisé ou un bâtiment fermé à clé.	Oui		
Le magasin est propre et bien rangé. Les allées et sorties de secours sont dégagées.	Oui		
Les locaux de stockage pour les produits chimiques et les autres produits dangereux sont installés loin des cours d'eau, des drains ou des retenues d'eau, quand c'est possible.	Oui		
Les locaux de stockage sont correctement ventilés.	Oui		Bouches d'aération aux deux côtés du container.
L'éclairage est adéquat.	Oui		
Les aires et locaux de stockage pour les produits chimiques et les autres produits dangereux sont équipés d'une rétention (globale) pour empêcher le rejet dans l'environnement en cas de déversement accidentel?	Non		Le magasinier procède à des manipulations (transvasements) à l'intérieur du container. Les bidons ouverts doivent donc être stockés dans des rétentions individuelles (à fabriquer avec de vieux fûts de 200l, découpés à la base).
Les FDS (Fiches de Données de Sécurité) sont aisément disponibles et régulièrement mises à jour.	En partie		Les FDS sont disponibles chez la responsable HSE (Mme Agnès Roy). Ces fiches doivent être disponibles simultanément chez la responsable HSE, dans le magasin, auprès du service utilisateur et à l'hôpital (§ 4.2 de la procédure cadre « stockage des produits chimiques »).





Management Review

- **§ 4.6 ISO 14001**
- *Plan – Do – Check – Act*



Presentation outline

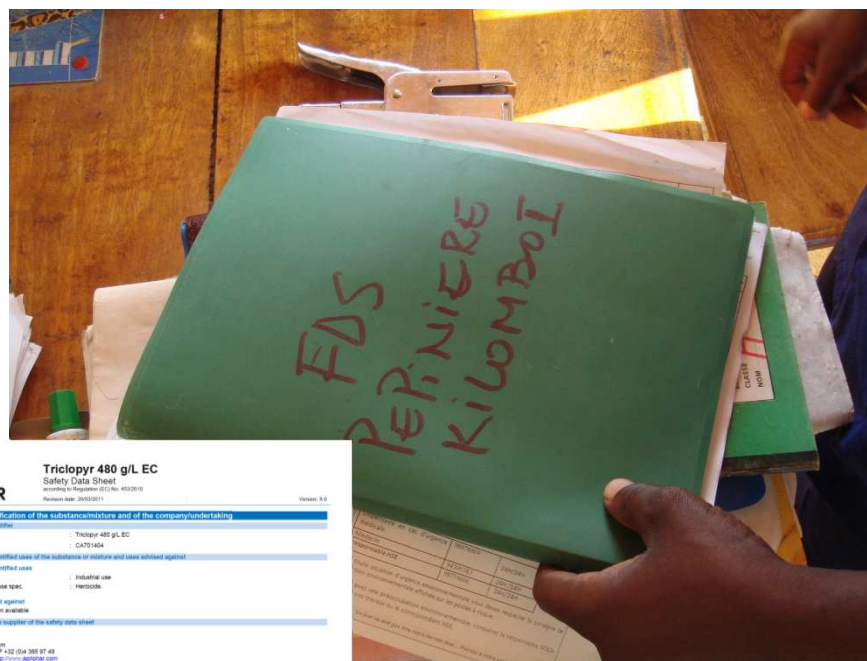
1. Socfin group's strategy
2. HSE Policy
3. Planning
4. Implementation
5. Checking
6. Management review
7. Sustainability practices
 1. Chemical storage
 2. Waste management
 3. Protection of biodiversity
 4. Integrated Pest Management
 5. Health & Safety
8. Question / answer





Chemical storage

- Framework procedure (at group level)
- Acquisition of MSDS for all chemicals (phytosanitary products, fertilizers, oils, greases, fuels, chemicals used in the laboratory, etc.)
- §4 First aid measures - §7 Handling and storage - §10 Stability and reactivity – etc.





Chemical storage

- Chemical incompatibilities : acid-base; flammable – oxidising agent; flammable – toxic, etc.
- HSE signage (especially §8 MSDS)
- First Expired, first Out (FEFO)





Chemical storage

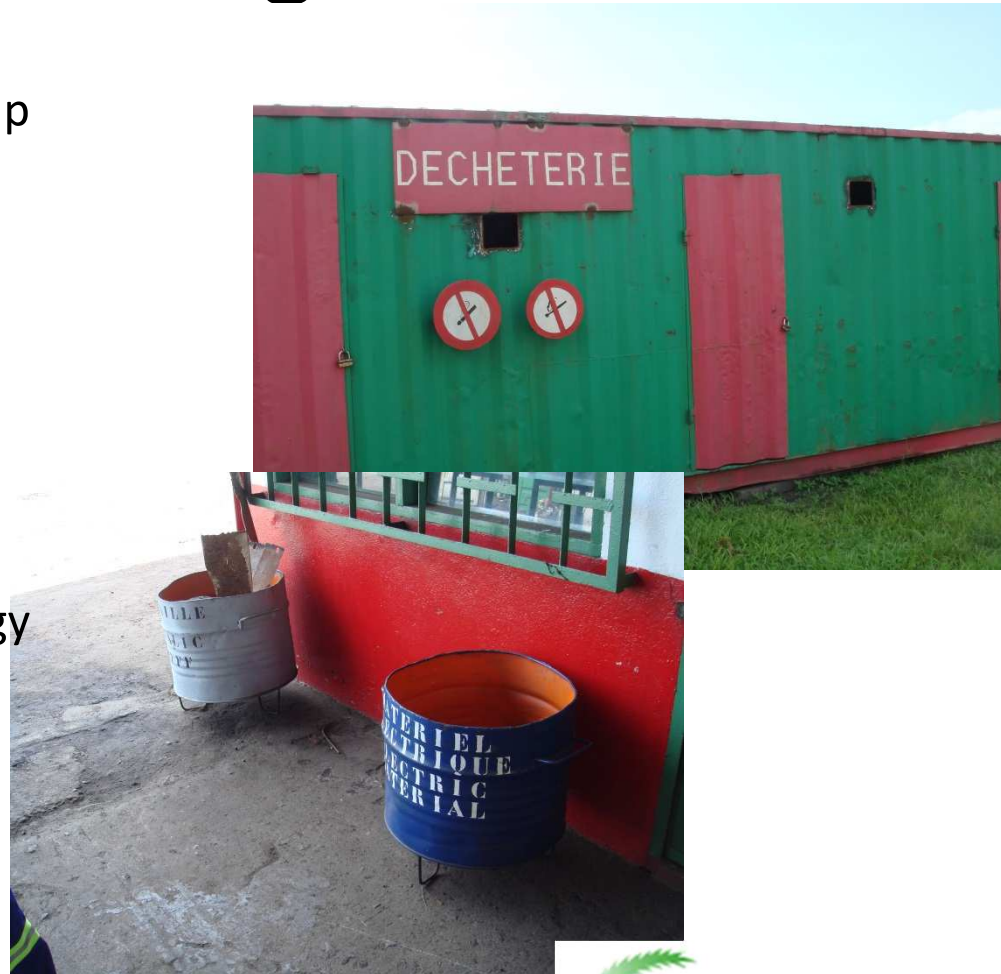
- Containment bunds (including fuel tanks), low and high openings, spill kits (\$6) , fire extinguishers(\$5), PPEs (\$ 8)
- No mixture or transfer in the chemical storage areas





Waste management

- Framework procedure (at group level)
- Waste treatment hierarchy
 - Prevention
 - Re-use
 - Recycling inorganic and organic substances (composting)
 - Energy recovery
 - Incineration without energy recovery (for sanitary reasons)
 - Engineered landfill or lagoon
- External management (hazardous waste)





Waste management

- Prevention: FEFO – eco-procurement
- Re-use: out of use equipments are dismantled, tapping equipments (collars and cup hangers) are cleaned and straightened, etc.
- Recycling of inorganic and organic substances: scrap metal, plastic bags (50 tons in 2012) – composting of the fibers and EFB – co-composting of EFB and POME project





Waste management

- Energy recovery
 - More than 4.300.000 kWh has been produced by the palm oil steam turbines fed by biomass (year 2012)
- Incineration without energy recovery
 - Household waste (for sanitary reasons)
 - Medical waste
- Lagoon system for each site (2 anaerobic ponds, 2 aerobic ponds, 180 days Retention Time, 50 mg BOD₅ at the outflow)





Biodiversity

- Conservation of High Conservation Value Areas
 - Natural protected areas
 - Riparian forests
 - Swamps, wet spots
 - Rocky hills, steep terrain, etc.



Integrated Pest Management

- At least, one high tree is preserved in each block of 25 ha (for prey birds).
- Chicken wire around the young palms (against the rodents)
- New project: to plant “beneficial plants” as a source and breeding for insect pests natural enemies (below: *Turnera* sp.; *Antigonon* sp. will be used as well)





Health & Safety

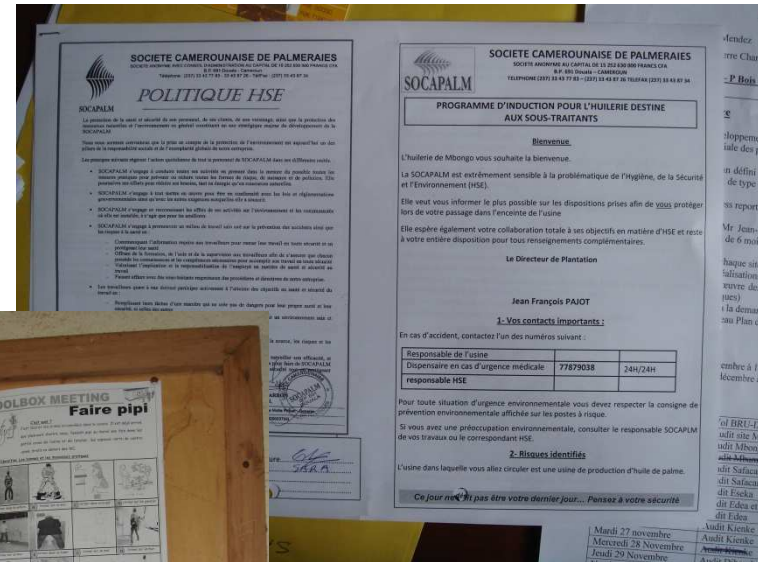
- Risk assessment (at the workplace)
- PPEs
- HSE Signage





Health & Safety

- HSE Induction (framework procedure)
- Toolbox meetings
- Training and awareness sessions
- Single emergency phone number





Health & Safety

Some figures:

- HSE meetings with management:
 - 134 in 2011
 - 414 in 2012 (+ 209%)
- Training and awareness sessions: fire fighting, first aid, chemical risk prevention, noise nuisance, use of machinery and tools, PPEs, risks related to tree felling, etc.
 - 53 in 2011
 - 94 in 2012 (+ 77%)
- Toolbox meetings with workers
 - 174 in 2011
 - 1.389 in 2012 (+ 698%)



Question / answer

Thank you for your attention

