

Technological Innovations to Future-proof the Palm Oil Industry

Wednesday, 13 November 2024 9:45 AM to 10:45 AM (GMT+7) Ballroom 2, Level 6, Amari Bangkok





Session Moderator









Harry Brock
Chief Executive Officer
Univanich Palm Oil Public Company Ltd

Advancing Oil Palm Innovation for Future Generations (The Thailand Perspective)



Thailand Palm Oil Industry 'A Growing Success Story'

1.

Thailand Palm Oil Production > 90% FFB from 'INDEPENDENT' Smallholders.



Effective Government Policy to encourage Agricultural Enterprise.

3.





Univanich established 40 year breeding programme, Genomics and Tissue Culture Facility, to provide highly suitable planting material to perform in the drier conditions.

4.





Univanich supplies seed for both domestic and export of planting material, and operates large nurseries to supply Thailand smallholders with very suitable planting material.



Thailand Maximizing Opportunities along the Value Chain

Thailand Renewable Energy target from 20% to 50% over next 10 years, Biomass is a significant player.

Since 2016, Industrial Department mandated for the inclusion of Biogas systems as part of the wastewater treatment process.

Univanich pioneered methane capture in Thailand from 2007.



Palm Kernel Shell 100% of Thailand Shell production used for Domestic Biomass Energy Production



75% of Thailand EFB production used for Domestic Biomass Energy Production



20% of Thailand Fibre production used for Domestic Biomass Energy Production





In 2023
Univanich
generated 46
million KWh of
electricity from
Biogas.
75% of this was
supplied to the
local grid.





Advancing Oil Palm in Thailand: The Key Drivers

1. Expansion of the Palm Oil industry is through diversified independent smallholder growth, supporting a large population of farming families. Thailand has and continues to demonstrate the smallholder model is very effective and progressive.

2. A well established breeding programme that offers planting material that is drought tolerant, with high yielding performance. Becoming more relevant with Climate Change.

3. A strong drive to add value from byproduct utilisation, and being a major Biomass feedstock supplier, and renewable energy supplier from methane capture.



4. Government support for the Palm Oil Industry





The Key to a Sustainable Future: 'Sharing Responsibility & Sharing the Value'



Thank you



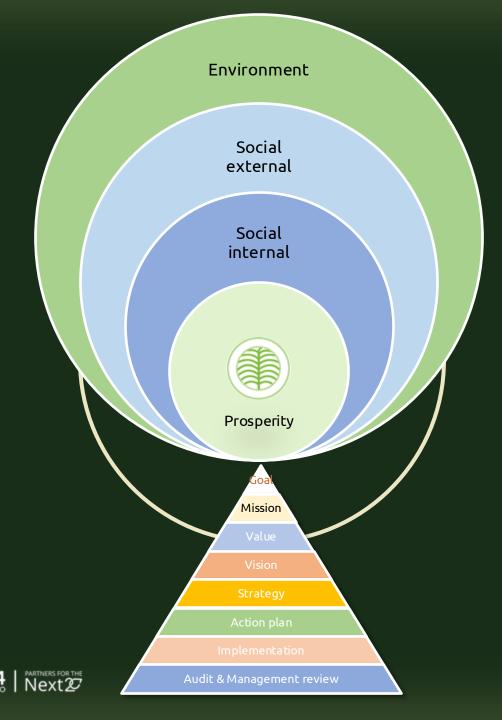


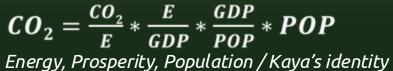


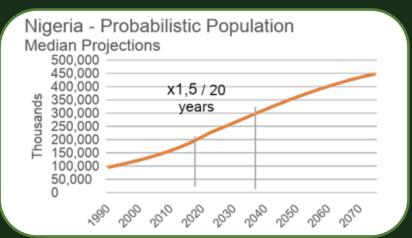
Florent Robert
Group Head of ESG
Siat Group

Renewable Energy for Sustainable Agriculture









POP

Palm oil key for food security of

population

Ε

Difficulties to access grid

electricity

Plantations in remote areas

GDP

Save cost of fossil fuel

(including transport)

 CO_2

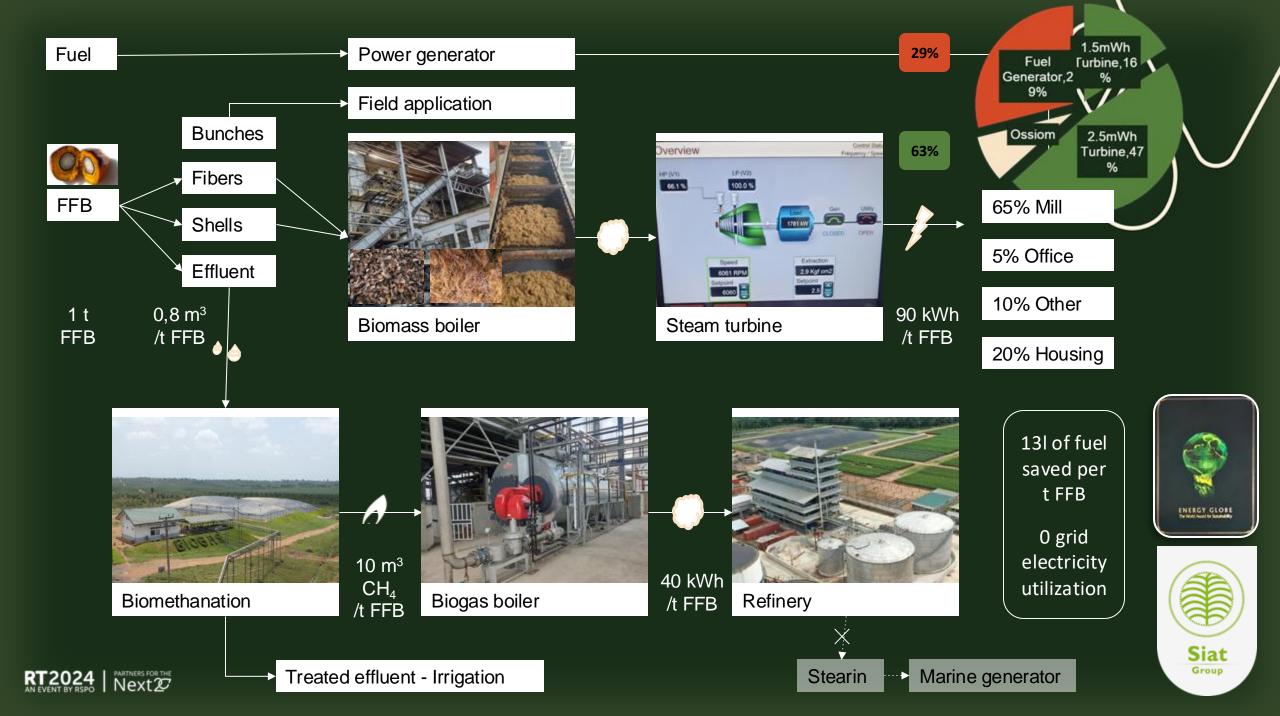
Recycle waste Reduce emission

Cogeneration & Biomethanation



Renewable energy as a solution for remote areas





Provide House lights



Free electricity for 1,700 houses and communities

Reduce

Fossil fuel use & cost

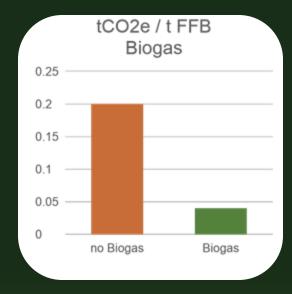


	Presco Projects	
	Cogenerati on	Biogas plant
Investment €	5,370,000	4,587,000
Savings Liter's fuel / year	8,639,000	1,600,000
Saving € / year	6,480,000	1,200,000
Pay back	< 1 year	4 years

Reduce

GHG emissions













Thank you



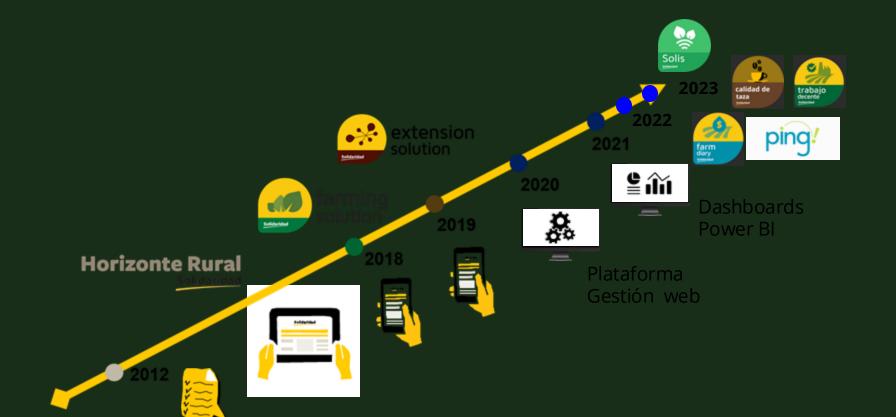


Lesly Vera Gonzales
Palm Oil Programme Manager
Solidaridad Peru

Small in Volume, Big in Data (The LatAm Experience)



FROM PO SUPPLY CHAIN NEEDS TO DS TOOLKIT ROUTE MAP 2012-2023

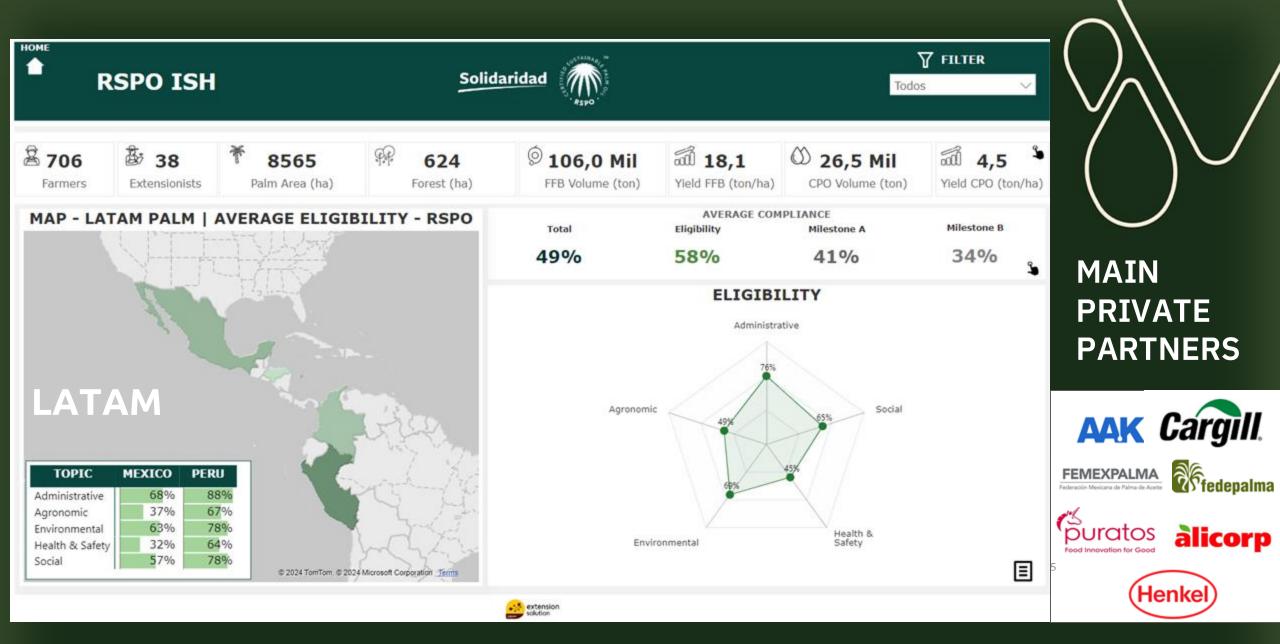




- TOGETHERNESS & ALIGNMENT
- RECORD KEEPING PRACTICES
- CONTINUOUS IMPROVEMENT
- CUSTOMIZATION/ STANDARDIZATION
- DECISION MAKING
- INCLUSIVENESS
- **COMMUNICATION**





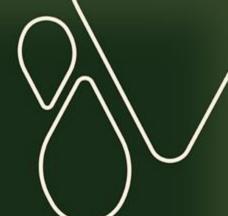




Link: [RSPO Mockup]



APPROACH TO INCLUSIVE DIGITAL TOOLS IN LATAM





CLIMATE SMART & REGENERATIVE / RESTORATION





DIGITAL TOOLS applied to PMEL





MARKET ENGAGEMENT &
COLLABORATIVE
PLATFORMS/SECTORIAL
AGREEMENTS











Thank you/ Gracias/ Kop khun ka







László Máthé RSPO Accreditation Programme Manager Assurance Services International (ASI)

Enhancing Oversight Capabilities With Advanced Technology



Examples of advanced technological solutions









Remote assessments



Remote sensing / drones



Data analysis

Objective: Improve assurance effectiveness, focus on high-risk certificate holders and streamline processes. Test AI technology, improve user experience

Benefits: Detects trends, optimizes resources, improves audit consistency, and enhances transparency.

Limitations: Requires precise data formatting and further fine-tuning.

Remote assessments

Objective: Reduce travel costs and time, facilitate remote participation of stakeholders, augment our perspective.

Benefits: More effective and comprehensive audits, reduced travels costs, improved participation.

Limitations: Connectivity requirements, competencies and privacy concerns.

Remote sensing and drones

Objective: Improve assurance effectiveness, improve allocation of auditing time, facilitate access, augment our perspective.

Benefits: More effective and focused audits.

Limitations: Requires technical equipment, permits, and expertise.







Thank you





End of session

Thank you for joining us!