

Lack of Dryer and Post-Harvest Technology Limited Farmer Corn Acceptance by Indonesian Feed Industry



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Content

- Background
- Problem of
 - Indonesian Feed Industry
 - Local corn problem
 - Characteristic of corn farmer
 - Available dryer
- Solution

The image features a solid blue background with a wavy, undulating top edge. The color of the blue transitions from a lighter, cyan-like hue at the top to a darker, more saturated blue at the bottom. The word "BACKGROUND" is written in a light blue, sans-serif font, positioned in the upper left quadrant of the image.

BACKGROUND

Indonesian feed industry attacked by increasing global corn price

Increasing Demand of corn

Global climate change

Increasing Demand of corn



Corn price double



Depress Indonesian feed industry

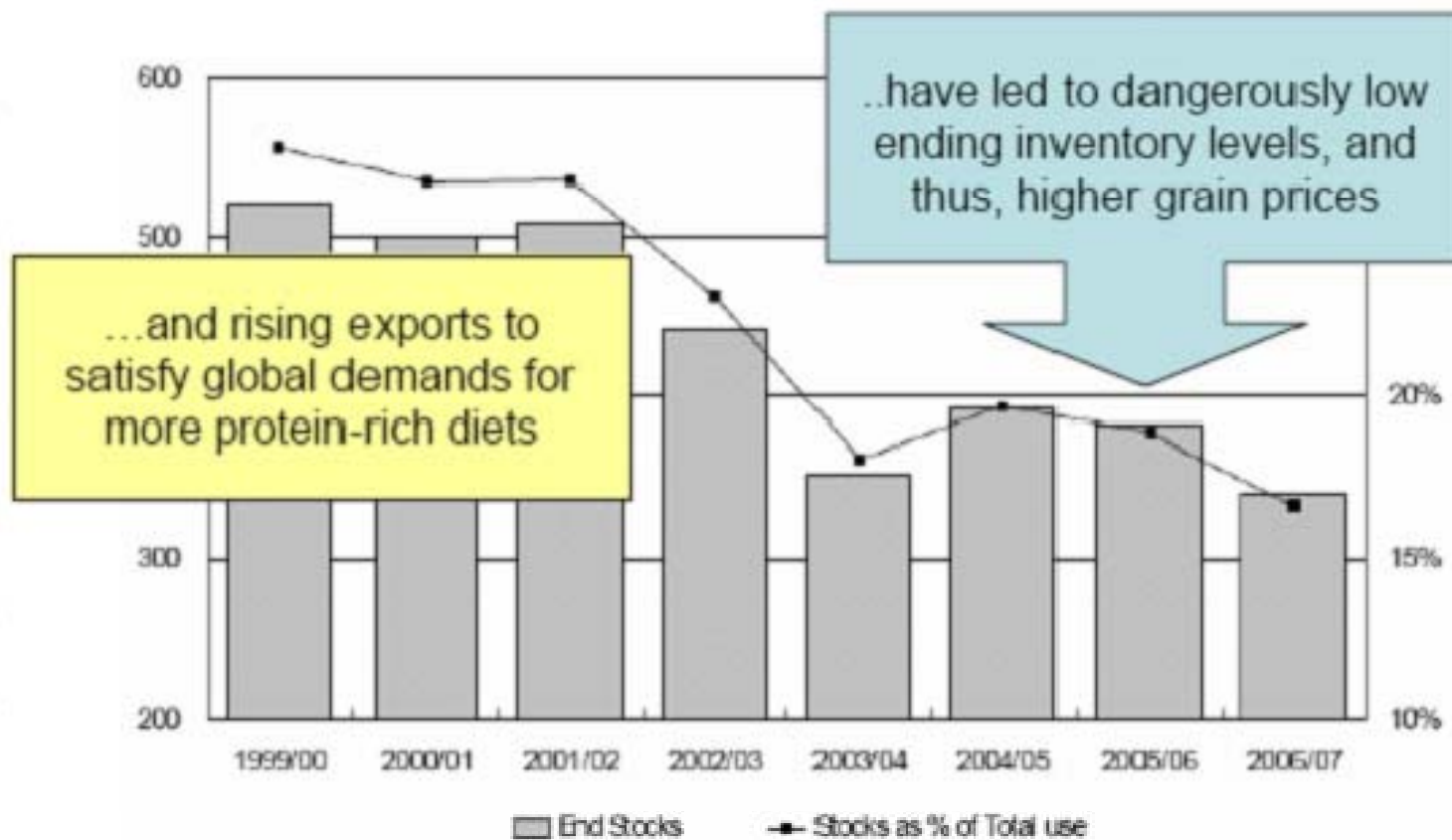


Driven in the competition between feed, food and fuel

- Energy security concerns
- Global warming concerns
- Depletion of grain stocks
- Increased global energy demand and rising fuel cost
- The high cost of alternatif energy



Depletion of grain stock



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Effect of energy supplies on the feed industry

War on addiction oil



War on feed industry



Feed demand increase exponentially



Climate change problem

Corn producer convert corn into automotive fuel



Where the extra grain going to come from?

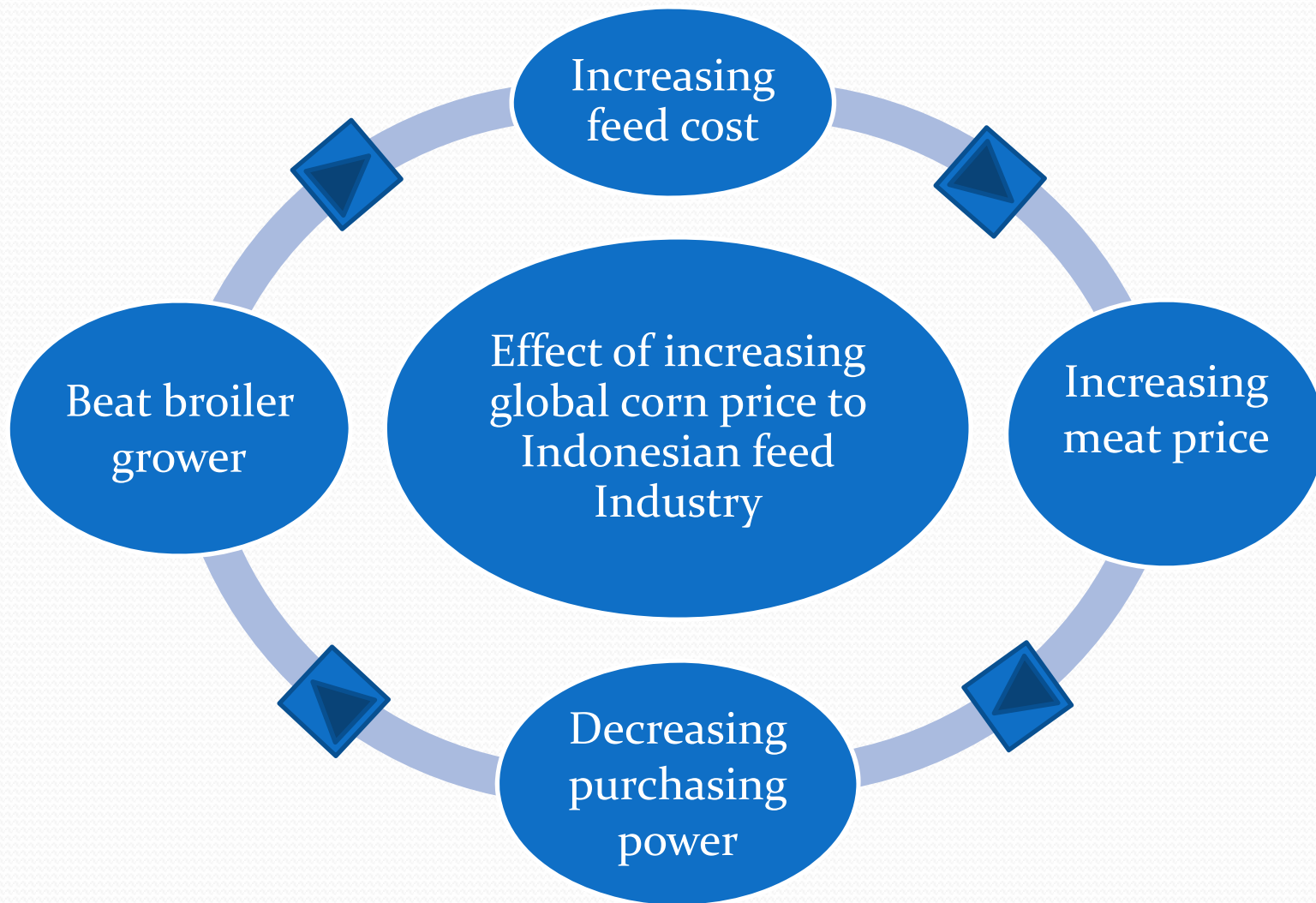
The image features a solid blue background with a wavy, lighter blue gradient at the top. The word "PROBLEMS" is written in a light blue, sans-serif font, positioned in the upper left quadrant of the image.

PROBLEMS

1. Indonesian feed industry

- 55% of the feed ingredient is come from corn
- National corn production 2006: 11.6 mio ton (for food)
- Import: 6.45 mio ton (mostly for feed)





..... Increasing national corn production

2. Local corn production

- Seasonal availability: 2 – 3 times harvest/year
- Fluctuation in quality: spoilage, vary in moisture and nutrient content
- Humid area: temperature 25 – 33°C, RH 85%, interrupted by rain..... Solar drying unfeasible



2. Local corn production

- Lack of postharvest technology,
 - manual harvest: extent time and increase contamination
 - Solar drying
 - Storing





3. Indonesian farmer characteristic

- Low farming scale (< 0.5 ha land; < 2 ton/year corn production)
- Low capital investment
- Lack of technology
- Undistribute properly

4. Available commercial corn dryer



- Unreachable to small farmer
- Operate by dryer company in imbalance profit sharing
- farmer less motivation to increase corn area
- Less corn available for feed industry

Model	Type	GN 1092 / box
Capacity	kg	4000
Drying model	type	Indirect
Blower	type	Axial
Drying speed	%	2-4
Power source, diesel	PK/Rpm	7 / 2200
Oven Dimension	cm	650 x 200 x 115
	cm	125 x 65 x 65

The image features a blue gradient background. The top edge is wavy, with a lighter blue area at the very top that transitions into a darker blue. The word "SOLUTION" is written in a bold, green, sans-serif font, positioned in the upper left quadrant of the image.

SOLUTION



Solution

- Farming group
- Alternative drying technology
- Industrialization and mechanisation of corn production, investor in java outer island
- Establishment of corn post harvest technology by government or feed industry

Thank you



- Yesterday's 'what if' is today reality and a dilemma for tomorrow
- An incredible challenge: A global effort to feed a hungry world yet provide energy, yet be open to consumer demands

Lyons (2007)

Corn Price

- 1980 : \$2/bushel
- Beginning of 2006 : \$2/bushel
- End of 2006 : \$4/bushel
- Now :



Why corn demand increase?

Increasing prosperity of populous country

- China and India

Increase demand of meat

- wealth related to meat consumption

Increasing animal number

Increasing feed needed

Increasing corn requirement



1293 billion barrels of reserves

Oil

• 12 years

Natural gas

• 64 years

Coal

• 155 years

Renewable energy (14%)

