

Tetra Laval

Tetra Laval Food for Development

Increasing the World's Access to Safe Food

School Feeding Programmes





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The Tetra Laval Group consists of three industry groups, Tetra Pak, Sidel and DeLaval, all focused on technologies for the efficient **production, processing and packaging of food**.



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Food for Development

Addressing global challenges related to food security and nutrition

- ▶ Actively drives development of the entire dairy and food value chain.
- ▶ We work in cooperation with customers, governments, development cooperation agencies, funding organisations and NGOs all over the world.
- ▶ We add value to our customers at the same time as supporting development of emerging countries and increasing access to nutrition around the world.






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Working in Partnerships

- ▶ It is essential to collaborate between stakeholders across borders.
- ▶ We work together with the public sector in many countries, mostly with Ministries of Agriculture and Ministries of Education.
- ▶ We have a strong network within United Nations collaborating with Global Compact, World Food Programme (WFP) and Food and Agriculture Organisation (FAO).
- ▶ We work alongside with many Non-Governmental Organisations such as Global Child Nutrition Foundation (GCNF) and the Scaling Up Nutrition (SUN) movement.

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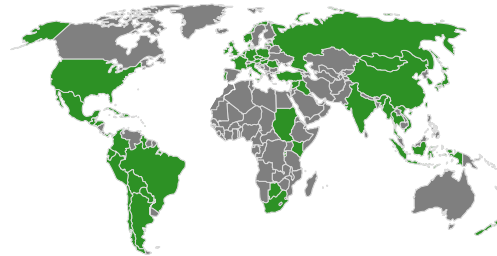
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Our History & Tradition in School Feeding

For more than 56 years, we have participated in the development of school feeding and nutrition programmes, which have provided value to children and society around the world. In 2018, 66 million children in 59 countries received milk or other nutritious beverages in Tetra Pak packages in their schools.

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● Countries with SFP using Tetra Pak packages 2018

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Global View of School Feeding

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- ▶ 368 million children in 169 countries receive food in school.
- ▶ One out of six children in developing countries – roughly 100 million children – is underweight.
- ▶ School feeding is a good investment for a country – for every \$1 spent, it is estimated that at least \$3 is gained in economic returns.

Source: WFP

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Global View of School Milk

140 million children receive milk in schools

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- ▶ 140 million children receive milk in schools.
- ▶ 39 countries reported official national recommendations on milk consumption for children.
- ▶ 58% of school milk programmes provide milk for free, another 27% are subsidized.
- ▶ 87% of countries reporting about school milk in the survey use aseptic packaging in school milk programmes.
- ▶ 200 ml is the most common portion size.



Source: IDF / FAO

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Why Milk?



Milk is Unique!

Protein:	Helps build and repair body tissues, including muscles and bones, and plays a role in the creation of antibodies which fight infection.
Vitamin A:	Aids bone and tooth development. Also aids in the maintenance of healthy skin and vision.
Vitamin B₁₂:	Aids in red blood cell formation.
Vitamin B₆:	Factor in the conversion of food into energy and tissue formation, including bones.
Riboflavin:	Factor in the conversion of food into energy and tissue formation.
Niacin:	Aids in normal growth, and is a factor in the conversion of food into energy and tissue formation, including bones.
Thiamine:	Releases energy from carbohydrate and aids normal growth.
Pantothenic acid:	Factor in the conversion of food into energy and tissue formation, including bones.
Folate:	Aids in red blood cell formation.
Vitamin D:	Enhances calcium and phosphorus absorption, on which strong bones and teeth depend.
Calcium:	Aids in the formation and maintenance of strong bones and healthy teeth.
Magnesium:	Factor in bone and teeth health, conversion of food into energy and tissue formation.
Phosphorus:	Factor in the formation and maintenance of strong bones and healthy teeth.
Potassium:	Aids in the correct functioning of nerves and muscles.
Zinc:	Factor in tissue formation, including bones, and conversion of food into energy.
Selenium:	Factor in the correct functioning of the immune system, due to its antioxidant effect.
Fat:	Provides the body an energy source and assists in absorption of Vitamins A,D,E, & K.
Lactose:	Main carbohydrate for energy source.

Source: Swedish Dairy Council & Dairy Goodness

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THEY'RE CALLED ESSENTIAL FOR A REASON

Milk's nine essential nutrients can help kids and teens grow healthy and strong.



A package of milk gives kids as much...



Potassium as one small banana



Protein as 1 ½ medium egg



Riboflavin as ½ cup of whole almonds



Vitamin A as ¾ cup of broccoli



8oz. / 236ml.



Niacin as 20 cherry tomatoes



Vitamin D as ¾ ounces of cooked salmon



Calcium as 10 cups of raw spinach



Vitamin B-12 as 4 ounces of cooked turkey



Phosphorus as 1 cup of canned kidney beans

Source: USDA National Nutrient Database for Standard Reference, Release 27

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Dominican Republic

Year programme started:	1992
Beverage:	Fortified and flavoured milk, and nectar
Type of package:	Tetra Brik® Aseptic 200, Tetra Brik® Aseptic 200 Mid
Children reached by Tetra Pak packages in 2018:	1 090 000
Programme funder:	Government
Programme implementer:	Ministry of Education
Customer/s delivering:	Pasteurizadora Rica and Induveca



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School Milk Programme Impact

Anemia presence	Reduced from 43.4% to 16.7% for children 6-14 yrs old (1993-2012).
Chronic malnutrition presence	Reduced from 19.4% to 1% – i.e. anthropometric data (2002-2012).
Vitamin B12 presence	12.6% of the children demonstrated lower than normal Vitamin B12 presence (2012) in comparison to the 22% average of children in Latin America.
Vitamin A presence	Vitamin A deficiency among children between 6 and 14 years old has practically disappeared during the last two decades.

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CENISMI
Centro Nacional de Investigación en Salud Materna Infantil de Hugo Menéndez



Source: UNDP. Retrieved from http://www.do.undp.org/content/dam/dominican_republic/docs/Pobreza/publicaciones/pnud_do_encuestamicronut2013.pdf

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Myanmar

Year programme started:	2013
Beverage:	White milk
Type of package:	Tetra Brik® Aseptic 200 Slim Tetra Brik® Aseptic 200 Slim Leaf
Children reached by Tetra Pak packages in 2018:	29 732
Programme funder:	Tetra Laval Group
Programme implementer:	MK Group and Ministry of Education
Customer/s delivering:	Nong Pho and EABC



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Security level
NN/MMYY

School Milk Programme Impact

Weight	+ 146 grams increased improvement for targeted students as compared to the control group. (July 2015 – February 2017)
Body Mass Index (BMI)	+ 0.05 increased improvement for targeted students as compared to the control group. (July 2015 – February 2017)
Mid-Upper Arm Circumference (MUAC)	+ 0.13 cm increased improvement for targeted students as compared to the control group. (July 2015 – February 2017)
Milk Acceptability	96.6% acceptability of milk by 555 children surveyed in Mon State. (2017)
Enrollment Rate	+ 2.5% enrollment rate for targeted schools as compared to + 0.1% for control schools in Yangon Region. (2017)
Drop Out Rate	+ 0.9% drop out rate for targeted schools as compared to + 5.1% for control schools in Yangon Region. (2017)

Sources: School Milk Program in Myanmar: Impact on Physical Development and Cognitive Performances of Children in Schools in Hwambi District. Institute de Recherche pour le Développement France. Report 12/05/2017 IRD – UMR Nutripass.
Shwe Parami Foundation, MoE Naungkalar & Zaymathe Schools, MK Group, and Food for Development. Yangon Department of Education – School Reports



Institut de Recherche
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The Government of the Republic of the Union of Myanmar
Ministry of Education



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Thailand

Year programme started:	1992
Beverage:	White milk
Type of package:	Tetra Brik® Aseptic 200 Slim, Tetra Brik® Aseptic 200 Slim Leaf, Tetra Brik® Aseptic 200 Base
Children reached by Tetra Pak packages in 2018:	7 450 000
Programme funder:	Government support
Programme implementer:	School Milk Board, under Livestock Department, Ministry of Agriculture and Cooperatives
Customer/s delivering:	Top 5 customers: Chiangmai Freshmilk, Nongpho Cooperatives, Country Fresh, Wang Nam Yen, Dairy Farming Promotion Organisation



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School Milk Programme Impact

Malnutrition presence	Reduced from 19% in 1990 to 10% in 1996-1997 and 5% in 2006.
Height	Children in the programme grew an additional 3 cm per year, in comparison to before programme implementation.
Per capita milk consumption	Increase from 2 litres in 1984 to as high as 29 litres in 2009. 6% increase annually between 1996 to 2006.
Dairy market	290 million litres in the early 1990s to 1 146 million litres in 2003.
Number of dairy cooperatives	62 in 1996 and 117 in 2009.
Milk production	The school milk programme uses 37% of the milk produced in Thailand.

Sources: School Milk Program in Thailand, Dr. Issara Suwanabo; FAO; Dairy Council of Thailand.



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Vietnam School Nutrition Assistance Programme (VSNAP)

Programme started	2001
Beverage	Fortified Milk
Type of package	Tetra Fino® Aseptic 200
Children reached by Tetra Pak packages	330 000
Programme funder	United States Department of Agriculture
Programme implementer	Ministry of Education and Training
Customer/s delivering	Vinamilk



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School Milk Programme Impact

Height	Targeted students increased 3.4% more than control students.
Weight	Targeted students increased 8.1% more than control students.
Academic	Increase from 16.3% to 25.7% of grade 3 students that received a "good" grade from school year 2003 - 2004 to school year 2004 - 2005.
Parents' perception	95% approval rating by mothers. 84% of mothers believe that their children are growing faster. 87% claim that children are healthier and stronger.
Net enrollment	0.5% decrease from 2003 to 2005 at targeted schools as compared to - 6% at control schools.

Sources: Land O'Lakes International Development: School Nutrition Program Report; Vietnam School Nutrition Assistance Program (VSNAP): Overview, Impact and Lessons Learned.



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Zambia

Year programme started:	2011
Beverage:	UHT White Milk
Type of package:	Tetra Brik® Aseptic 250
Children reached by Tetra Pak packages:	17 000
Programme funder:	Swedish International Development Agency (Sida)
Programme implementer:	World Food Programme Ministry of Education
Customer/s delivering:	Parmalat



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Security level
NN/MMYY

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School Milk promotes consumption and better health during all life!



Germany



Sweden



New Zealand



Russia



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THANK YOU FOR YOUR ATTENTION!

www.tetrapak.com/ffdo



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