

# Presentation of Centre Kram Ngoy

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Centre Kram Ngoy (CKN) was created in 1992 under the impulse of Mr. Im Saroeun. Former CEO of the Technical University in Cambodia, former CEO of Education, former CEO of the Cambodian Radio-TV... and former senior lecturer at ISIM (University of Montpellier-France), Im Saroeun is today a hyper-active retired man, constantly on the move for the promotion and development of "his Center", of a particular kind.

The following paragraphs introduce you the objectives, the philosophy and the mission undertaken by CKN, as well as its achievements during the main phases of its development.

## MISSION

Contribute to the development of Cambodia -notably of its human resources-, through technology transfer, training and economic integration.

## Main Objective

Build « le Centre Kram Ngoy » (CKN), as an institution of excellence in the field of training, capable of playing a driving part in the development of Khmer technicality. Its main tasks are:

- a) Encourage / develop suitable scientific, technical and vocational trainings, of different levels, in different fields;
- b) Spread Science, Technology and applied/vocational techniques, for development through production activities;
- c) Develop / energize the economic culture, the spirit of autonomy, work and enterprise, in view of competitiveness and economic integration of the youth and the trained technicians;
- d) Promote the transfer of knowledge and know-how from abroad towards Cambodia to contribute to the raising of the khmer technological level.

## CONCEPT/ PHILOSOPHY

Setting up of a complete chain of actions: technology transfer-training-occupational/economic integration, with a priority to the training of trainers where girls/women have a privileged status.

The CKN project has a few fundamental features promoting the man and the spirit:

- 1) Aspiration for intellectual, technological and economic **competitiveness** of the country which is facing a tough regional and global pressure.
- 2) Audacity and ambition of a work with **national reach**, endowed with a **pertinent strategy** and aiming at the quality of the man [character, skills and culture (especially entrepreneurial spirit)].
- 3) The work is not only humanitarian for survival, but of **long-drawn-out solidarity** for the life and development of a country (competency, work, effort, perseverance, savings).
- 4) The sense and **will of organization**, for a safe and sustainable development of CKN.
- 5) The **spirit of autonomy** relying on its own efforts, for the fertility of the project and the good guidance of its own programs and concept, as for those of cooperation and partnership as support for the strengthening and progress of CKN.
- 6) Open-mindedness and skills in view of endowing ourselves with a capability for fruitful **National** (local enterprises/institutions/organisms) **and International Cooperation**, essential to technology transfer.

## CKN APPROACH

- 1) Patient mobilization of the Cambodian Diaspora and friends in developed countries:
  - Build an organized structure, with its traditions, objectives and programs.
  - Undertake with confidence, tenacity and responsibility, the achievement step by step of goals set beforehand.
- 2) Aid to local partners' structures and link to the outside through a permanent channel of solidarity and exchanges for knowledge, training and technology transfer.
- 3) Research and innovation in view of an alternative methodology adapted to a poor country: progressiveness and endurance, flexibility, knowledge of the field and realistic concrete experiments adapted to the local social economy, efficiency and effectiveness, in order to reach an accurate vision of local under-development and to contribute more efficiently to the development process of the country. In brief, how to tackle the issue of development with little means?
- 4) Develop capabilities/quality of cooperation with international agencies / institutions/associations to reinforce the planned actions and make the gains sustainable. Mastery of autonomy to better open up to partnerships and technology transfer.

**VISION**

*High quality Training promotes self confidence and self-reliance, the spirit of well-made work, the technical expertise and the rigorous and competitive know-how. It is par excellence the driving force for development, great challenge that must be addressed and overcome.*

**CKN MOTTO**

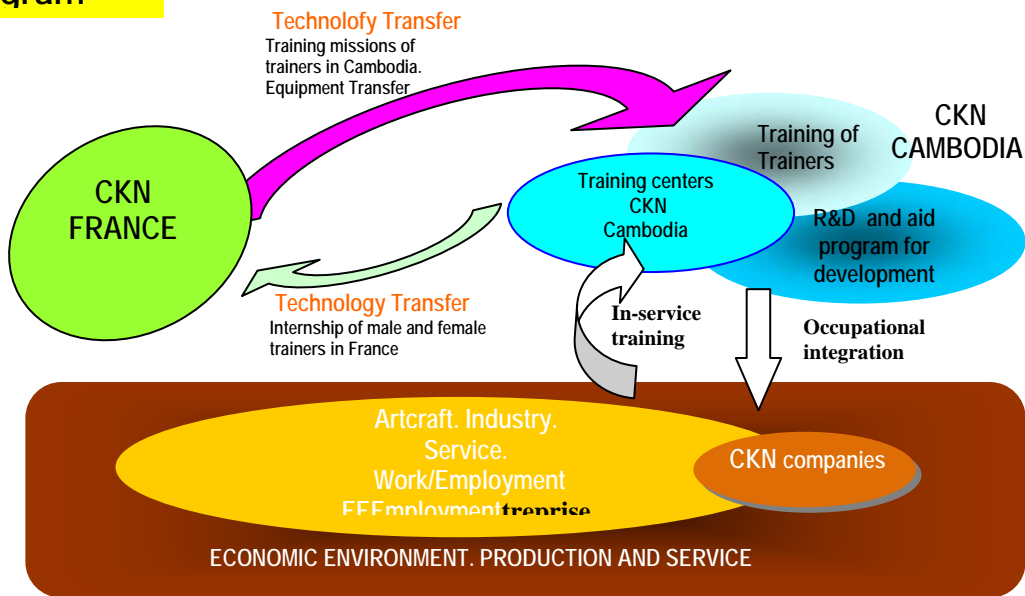
- 1) Have character 2) Do good 3) Unite forces 4) Build

**A FEW FIGURES ABOUT CKN**

Launch of project: 1992 (France)  
 Installation in Cambodia: 1998  
 Number of members and sympathizers in France (2007): 110  
 Staff in France: 9 (all volunteers)  
 Staff in Cambodia : Expatriate (1), Permanents(3), Trainers and Trainer-students (27)  
 Budget (France):

2005: 49 085 €	2010: 69 659 €
2006: 37 853 €	2011: 70 368 €
2007: 44 334 €	2012: 46 213 €

**CKN Concept Diagram**



**ckn**  
 មជ្ឈមណ្ឌលក្រុមជួយ

**Ass. CENTRE KRAM NGOY (CKN)**

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**Association loi 1901**  
 Non profit-making philanthropic, educational, technical, cultural community-service  
 (Préfecture de l'Hérault, JO du 23/12/92, Réf 1 40836 811, modification N°494 JO du 04/5/2002).

**OBJECT**

- Aid to the development of Cambodia, with setting up Centre Kram Ngoy-CKN (Training of scientific and technical resources, technology transfert, occupational integration, research-development).
- Strengthening of bonds between France and Cambodia through the spreading of Science, Technique. Culture and French language.

**ASSOCIATIONS PARTICIPATING TO THE CKN PROJECT :**

**Montpellier :** Asso CKN /Im-Saroeun  
 10 rue Ernest Michel 34000 Montpellier .Tel/Fax : 0467426447 Email :imsaroeun@free.fr

**Paris:** Asso CKN /Heng Tek Ly  
 8b Rue Raymond Pitef 75017 Paris. Tel/Fax : 0143 80 43 26 Email :tekly.heng@gmail.com

**Paris:** Asso CEFODIA /Ros Lida  
 10 Ave de Saint Exupéry 92320 Châtillon.Tel/Fax : 0146 54 40 32 Email : ckn@chez.com

**Paris:** FPCA / Tan Eng Thay  
 5 rue de la Chapelle 94800 Villejuif Tel : 0147 26 72 65

**Paris:** STADHA / Leang Sokkry  
 1 Place des Genévriers 77 420 Champs sur Marne

**Partner:** Promotion of girl technicians  
 Asso AAFK (Association d'Aide aux Femmes Khmères) Pdte : Sokhon Daumont  
 Headquarters : 3 rue de Picardie 94 240 L'HAY Les Roses Tel : 0145 47 33 21



## MILESTONES IN THE REALIZATION OF CKN

- 1992-1996**  
 Organization and mobilization in France. Setting up of a solidarity network (AAK, CEFODIA, FPCA, STADHA) with its traditions: JKN (Kram Ngoy day), WKN (Kram Ngoy week-end), yearly votive feasts, CKN New Year, Letters of the CKN, programs et planings, monthly meetings...
- 1996-1998**
- Exercising autonomy: **first trainee** from Cambodia, totally taken care of by the CKN in France with the help of "**Vie Nouvelle**".
  - **Three** trainees from Cambodia, totally taken care of by the CKN in France.
  - **Creation of AMATAK**, takeaway shop of the CKN.
- September 1998**
- Return of the trainees to Cambodia. Creation of a **Training Center in Phnom Penh**, the PPE, with the partnership of the local association AKFIP.
- 1999-2000**
- **CAP Training** in Cambodia (National Vocational Qualification level). Technology transfer(consultants from France)
  - Occupational **integration** : aid for the creation of five young workshop-companies.
  - Partnership with **CODEGAZ** (donations of first computers)
- 2001- ½ 2002**
- Pilot study of **Mobile Training** in provinces (Poeus, Kompong Cham, Sihanoukville). **Training of trainers**
  - **First international cooperation. Sponsored by AIF** (Intergovernmental agency of Francophony, Paris. Former OIF).
- ½ 2002-2003**
- **Independence** of PPE (140 students were trained).
  - Creation of a **new CKN training center** in partnership with the PTM association, next to the Olympic market.
  - The AAK association takes the name of **CKN (Centre Kram Ngoy)** (1992)
  - Status of international **NGO** in Cambodia, MOU with the Cambodian Ministry of Foreign Affairs.
  - Strengthening/extension of the Mobile Training (131 trainees trained at the end of 2002).
  - Partnership with **AAFK** for the **promotion of woman** project (training of 10 female technicians). 2<sup>nd</sup> AIF sponsoring
  - Intensive training of trainers. Extension of training modules.
  - Level 2 training Project (Training at BTS level (Advanced Vocational Diploma))
  - Intensification of technology transfer (11 consultants from France in 2003)
  - Partnership begun with the Institut des Sciences de l'Ingénieur of Montpellier (**ISIM-Polytech' Montpellier**)
  - Support of BRICORAMA to CKN (Donation of a **container and transport**, every 2 years)
  - Signature of two protocols of agreement with the Cambodian **Ministry of Education**, related to the CKN contribution for:
    - a) The extension of the Mobile Training,
    - b) The introduction of technology in general education.
  - Partnership and contracts Agreement with **ESF/EDF** for the development of **Rural Electricity** in Cambodia.
- 2004**
- Strengthening of the CKN training, especially at **BST** level (Advanced Vocational Diploma)
  - Rural electricity training. Partnership and contract with **ESF/EDF** for Banteay Chhoeu (Siemreap,Angkor) rural electricity grid. **Studies of charge monitoring and discharge limiter for batteries.**
  - **Phnom Penh Thmey**: setting up a second site for the rural electricity training.
  - Project and implementation of a **solidarity rural electricity company in Banteay Dèk** (30Km from PPenh)
  - Cooperation with **MULTITEC** (company in Montpellier).
  - Cooperation **UNESCO-Ministry of Education: Seminar on TVET.**
- 2005**
- Cooperation with **TOTAL-PNUD for the GSB program** of the United Nations. Technical assistance to rural electricians (4 REEs).
  - **Cooperation with OFCP** (Organisation Franco-Cambodgienne de Pneumologie) for the training and the maintenance of oxygen extractors in hospitals.
  - Cooperation **between UNESCO-CKN-Ministry of Education** for technology education in high schools. Pilot study of training in provincial high school (PreyTotung high school) in contract with UNESCO.
  - Charter of a container for Cambodia, with **BRICORAMA** sponsoring. Donation of two robots from Polytech, University of Montpellier II.
  - Completion and start of operation of the **rural electricity production and distribution center** in **Banteay Dek** with the subsidy of OIF (Organisation Internationale de la Francophonie).
  - **First CKN trainer** sent to France for an **internship** in industrial cooling system, with the subsidy of the **ROTARY Club** of Montpellier, the participation of **Multitec** and **Cegelec**(Montpellier) and **CEMAFROID**(Paris).
  - Mr. **Guedegbe**, PSD program manager of OIF in Paris, made an one week visit to CKN. Meeting with the NGOs and the Ministry of Foreign Affairs at CKN.
  - Start of a project with the WB and EAC (Electricity Authority of Cambodia) for training of REEs (rural electrician-entrepreneurs).
  - 5 Training missions from France.

2006

- Extension to two other high schools of the technological education in high school. With the participation of **FORIM** and the subsidy of the French **Ministry of Foreign Affairs**.
- Setting up of **second rural electricity production and distribution center** in Damber (160km from Phnom Penh).
- Strengthening of the OFCP-CKN cooperation in the field of oxygen extractors maintenance.
- Strengthening of the cooperation with **TOTAL** for a project of rural electricity production and distribution (cooperation aborted due to the new installation of overhead power transmission lines from Vietnam).
- Study and development of **vegetal combustion gas producer** for rural electricity production. First tests encouraging. Search of cooperation for mass production.
- Second trainer in France (CKN female trainer, in digital TV, with the subsidy of the **ROTARY Club of Montpellier**, the participation of **Polytech** University (Montpellier), **STAF, CVA, Computer plus, STEN**(Paris)).
- **First work with a company**: IZA tobacco company in Kompong Cham (electric maintenance and generator).
- 4 **training** missions from France.

2007

- Three new sessions of Mobile Training (Kompong Cham, Skoun, Prey Totung).
- First successful experience of **technical exhibition** organized by CKN, on its own initiative, in Preah Sihanouk high school in Kompong Cham (february 2007).
- CKN searches for a new site for its extension.
- Contract with **UNESCO** for a **second technical exhibition** in Skoun (October 2007). Big success.
- Last phase of discussion with the **World Bank** (and **EAC**) for the training of rural electricians of the Central, Northern and Western part of Cambodia (Contract will be signed in December 2007)..
- First batch of BTS students. First batch of trainee trainers trained by CKN.
- Contract of electrical installation, TV, Internet and air conditioning in a **hotel in Battambang** (North West of Cambodia, 7 storey building - 70 rooms).
- Participation to the **PROSEED** program: **energetic efficiency**. Service test of led lamps in villages (Damber).
- Some media are interested in CKN: several appearances on TV and on the Radio.
- As every year, several missions coming from France to train the trainers.

2008

- **Training of rural electrician-entrepreneurs** in Banteay Neang (Banteay Mean Chey) for the **World Bank**, and **EAC**(Electricity Authority of Cambodia) from 2 January to 8 March 2008. CKN organize at the same time the training and logistics (meal, dormitory...). Satisfaction of EAC and the World Bank. Graduation ceremony.
- The training is then transferred to Skoun (from 10 March to 23 May). Visit of SE Ty Norin, and Mrs. Rebecca SEKSE, World Bank program manager in Washington. In total, CKN trained the rural electricians of the Northern half of Cambodia (132 electricians).
- Cooperation and contracts with **companies**, more and more numerous, who offer a partnership either of training, either of maintenance: production of incense sticks in Skoun, rice mill-husking plant of Skoun, Tiger Brewery, PPM pharmaceutical company...
- Extension of Banteay Dek and Damber(**Banteay Dek goes MT**). Rural electricity extension for 150 households in Damber.
- Contact with **Schneider Electric**. Participation to the Luli and Exhibition Day in Grenoble.
- Lacking trainers, CKN recruits many trainer-students. CKN spreads and strengthens its trainings towards « industrial » maintenance services (in companies).
- **A third (female) trainee in France. Sponsored by the Rotary Club in Montpellier.** Partnership CKN-**Polytech' University of Montpellier II**.
- CKN produced **a DVD and a booklet** about its achievements for OIF who sponsored them to spread the CKN experience (Distributed at the summit of Francophonie in Quebec, October 2008).
- Two containers of equipment are leaving for Cambodia, with the sponsoring of **BRICORAMA**.
- **A TV crew of Canada came to film CKN** for a video clip on the achievements of OIF. To be presented during the summit of francophonie of Quebec.
- 5 volunteers from France trained the trainers (French electronics TV microcontroller automatism industrial-computing).
- The equipment installation of the hotel in Battambang is completed. Equipment installation of a new 3-storey building just facing it is underway.
- The Schneider **Electric Foundation** sponsors the training of 10 CKN trainers.

2009

- Recruiting and training of the trainers for the Schneider Electric program.
- Participation to the conference **ESMAP World Bank** (Phnom Penh).
- Extension of Banteay Dek (Banteay Dek goes MT, concrete poles) and Damber (rural electricity extension pour 200 households).
- Equipment maintenance at **Sonja Kill** hospital (Kampot).
- Participation to phase II of **PROSEED** program: production of led lamps for villages. Cooperation with **Enerteam** in Vietnam. Trip of trainers to Vietnam.
- Project of partnership convention with **Schneider Electric**: strengthening of the Electrotechnique and automatism training.

- CKN launches the preparation of a **second Center in Siemreap Kantuot** (30km from Phnom Penh). **Solar energy**: cooperation with **Schneider Electric** to power the village of Reay Dorb by a **photovoltaic grid 220V/2kW** (June)
- CKN receives a donation of 3000€ from **Rotary Club Montpellier** for the equipment of its **printed Circuit Board lab**.
- **Contract** with **FONDEM** (Fondation des Energies pour le Monde - Paris) for a study on the operational organization for the powering of 27 villages in Kompong Thom (July).
- Organization of a **Seminar-Technical Exhibition** in Phnom Penh on technical and vocational training. With the **support** of **UNESCO** and the **cooperation of the Ministry of Education and the Ministry of Labor and Vocational Training**.
- Participation to several TV programs on training.
- Selling of CKN **educational kits** to NGOs KAPE and World Education. Training of teachers and students in a provincial junior high school (Kompong Cham).
- CKN invited by **OIF in Tunis**: workshop of Francophonie on the management of Technical and Vocational Training.
- CKN invited by **FORIM in Lyon**: seminar of PR/OSIM programs capitalization. The CKN program was greeted as a success and a model to follow. Invitation to AFRICA No 1 Radio and to the Khmer Radio in Lyon.
- Project of cooperation with **ETC foundation** (Netherlands): **Training of 8 trainers and introduction of pedagogy** in technical **training**. Technical project: improvement of CKN gasifier for rural electricity.
- Application to the Finnish EEP program (failed).
- Contract of maintenance **of the Hak Se rice mill** (Skoun).

2010

- End of the training of the **7 Schneider Electric trainers** (March 2010). The training of 4 other trainers is underway.
- Continuation and intensification of **extension works of CKN in Siemreap Kantuot**. A new building is being completed. Alleys are being created. We started there the first classes (Chemistry, Electronics, Solar energy...)
- UNESCO **Cambodia** renews with the CKN the contract for the organization of the Seminar-Exhibition in Phnom Penh (planned for October 2010).
- Industrial maintenance: Maintenance contract with **Hak Se rice mill** (Skoun). Electrical assembling of a cigarette packing machine (big success) in Kompong Cham. Continuation of the maintenance at Holiday Hotel ( Battambang). Maintenance program of oxygen extractors in 4 hospitals. CKN REEs (Damber and Banteay Dek) are developing.
- The PROSEED program runs out of steam: competition of chinese products(?). CKN continues its development in microcontroller technique and printed circuits. **Donation of equipment from IFTEC**.
- Partnership convention with **ESF-CIF**. **Donation of several dozens of EDF educational boxes**;
- First purchase of training equipment in industrial automatism from Schneider Electric Saigon (in the frame of the Schneider Electric Aid program).
- Participation of CKN to the **ASEAN Regional Competition in Industrial Electronics in Kuala Lumpur**. Chosen by the **Ministry of Labor and Vocational Training**. With a certificate of Excellence. Following this event, CKN is approached for another ASEAN Regional Competition in Bangkok in November 2010, in industrial electronics and electrical installation.
- **Solar energy**: the photovoltaic grid of Reay Dorb operates well with a continuous service for the whole day. From 15, the number of subscribers increased to 33. The rest of the village is asking to be powered, We're working so as to double the capacity with a generator for rainy weather. Experiment very closely followed by external people WB, MIME, REF, and visitors. Testing of **solar pumping** for small farming.
- **FORIM-Paris** is very much interested by the CKN experience: a "caravane du developpement" mission will visit CKN in Cambodia in October.
- **Schneider Electric (Grenoble)** gives to the CKN half a ton of electric equipment very useful for the training. Two containers are being prepared to be sent to Cambodia.
- **Saint Marcellin high school** helps us in pneumatic and automatic equipment. **Argouse high school** (Grenoble) and friends from Grenoble make important equipment donations.
- **IUT d'Orsay examines** a program to help CKN in electronics.
- **Cooperation** contract with **ETC-TTP** signed (August): **technical training pedagogy and technical assistance for gasifier**.
- **Cooperation** contract with **ETC-EASE** signed: **improving battery charging stations in the villages for 3 provinces**.
- CKN win **National Skills Competition** in Electrical installation (September).
- CKN attended **WorldSkills ASEAN Compétition** in Bangkok (November). Tith (électrical installat) had well worked : 7<sup>th</sup> over 13. He has got the medal **Best of the Nation**, of best candidate from Cambodia.
- Start of training program **for rural batteries station operators**. Survey and préparation in 3 provinces : Takeo, Kandal et Kg Speu.

2011

- Training in **gasifier technique, and construction of gasifier** (Programme ETC-TTP). January and May.
- Training of trainers in pedagogy and Didactic. Generation ETC (Programme ETC TTP). Fevrier.
- Agreement with **Forim** (France) : Mobile trainig in PTotung and **technical Exhibition** in PTT High School
- Agreement with UPS : **l'Université Paris-Sud** (France).
- Contract with Fondem : Maintenance of gasifier in Sambaur (until end 2011).
- Two containers, ready in Montpellier to be sent to Cambodia (prepared by friends from St Marcellin and Grenoble).
- Courses on solar drying by **l'UNIDO/ONUDI**. CKN fabricates its first **solar Dryer**.(Août).Contact with malay Experts.
- Contract with **REF-World Bank** for training of **436 REEs** (rural Electrician Entrepreneurs) coming from all over Cambodia. First Experience: On the Job Training of 100 REEs (Audit and technical assistance in enterprise).
- Training of 436 rural Electricians in 3 sites including Siemreap Kantout (the new CKN campus) Augut-Dec 2011.
- **SkillsCompétition Cambodia** : Again, this year, CKN won the national compétition in electrical Installation, Chan and Dara have gain excellent and won the 2 first ranks. Chan will represent Cambodia at the next regional WorldSkills ASEAN competition (Nov 2012) in Indonesia.
- Contract with **UNIDO** (dec), for **fabricating** of a **solar assisted dryer**.

2012

- Improving the existing gasifier (Program ETC-TTP). Jan-Feb 2012. End of program with ETC (March 2012)
- Completing and delivering to **UNIDO**, **the solar dryer**. Installing it and producing dried fishes at Krakor (march-2012).
- Fishes were sold in Phnom Penh. Success of exhibition of solar assisted Dryer at the ASEAN ENERGY Seminar Report from Malaysia (analysis): good.
- Installation of equipment and Maintenance in a **Plastic Enterprise** near Phnom Penh.
- Fabricating of **30 CEB (cookstove)** saving wood for an Association. 30 others were ordered for November2012.
- Signature of cooperation with Sambaur Cooperative for a Rural Electricity enterprise. Start Gasifier and **"multi-skilled rural Electrician"** pilot project (July) with the cooperation of Schneider Electric.
- Buying at high cost a **Yalong Automation Training Equipment** to prepare ASEANWorldSkills competition in Jakarta in November 2012. CKN will represent Cambodia for this trade. Great preparation.
- Expansion of Siemreap Kantout: improving premises, construction of a **mechanics workshop**.
- **National SkillsCompétition Cambodia** : with 3 candidates, CKN won the Three first ranks in electrical Installation. Ley will join Chan (former CKN winner) to represent Cambodia at the next regional WorldSkills ASEAN competition (Nov 2012) in Indonesia.
- **Implementing Electricity in a Rubber drying plant** in Bek Anloun - Stung Trang (Kg Cham).
- **Cooperation Schneider Electric:Training Course on Automation** (one month, sept-Oct) by JP Mondange, Schneider Electric Engineer coming from France.
- **First contact with Child Dream swiss organization.**(July-Sept)
- October: **First Regular training course**, in Siemreap Kantout campus, for 22 students. (after 5 months of REEs training in 2011 in SRK).
- November: **6 CKN trainers** join Cambodian Team going to Jakarta for **ASEAN Worldskills Competition 2012** (11-21 Nov 12). CKN represents Cambodia in **Electrical Installation and in Automation**. Ranked 8 over **15 in electrical installation**. Ranked 5 over 6 countries (10 countries in ASEAN) in **automation**. Chan of CKN earned the Medal **"The Best of Nation"** (second time for CKN).

2013

- January: a new building (8m x 24m) built in 3 week time for annual meeting and technical exhibition in Siemreap
- PTM annual meeting: 250 Persons join the meeting. Among them 53 REEs who asked for training.
- February: Training in MV , with **Luc Bast Schneider Electric** engineer, 3 weeks course.
- Technical exhibition for High School held in Siemreap Kantout. 600 students attended the exhibition.
- **3 containers** arrive from France. Organisation of storage.
- June: CKN Team of 3 trainers participate in **China Worldskills 2013** (18-30 June 2013). In automation. Score: 3<sup>rd</sup> among 8 countries.
- July: Training in **Altivar VSD**, by **Nicolas Mikonio Schneider Electric** engineer, 2 weeks course. Installation of a 2 Kw water solar pumping system in CKN Center Siemreap Kantout. (Water Tower, command control system of solar Altivar, drilled well of 40 meters, 12 solar panels of 210w,...).
- Visit of **Juliette Gelpi, Schneider Electric Singapore**. Seminar preparation with regional officials of Schneider Electric, present at the Angkor Marathon.