Behaviour Change for Energy Efficiency in the Industry in Mexico, PRONASGEn

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PRONASGEN
and the Learning Networks

The program aims to help energy users increase their competitiveness by implementing an EnMS:

- Providing technical assistance and training of the human resource
- Documenting and integrating the information that supports the promotion of EnMS’ business cases
- Supporting the development of Learning Networks that allow the implementation of EnMS within large energy users in the industry
Why Energy Management Systems?

EnMS are related to technical assistance and the promotion of best practices. They provide steps and elements to avoid energy waste and maintain optimum levels of energy intensity.

We identify EnMS as a social movement because they:

- allow the empowerment of those who are responsible of operating the facilities
- involve the whole organization in the promotion of policies and seeking energy saving opportunities, including top management
Like most management systems, continuous improvement is a **must** when implementing EnMS. This helps to break the organization’s culture barrier and develop a growth and accomplishment mindset in terms of energy efficiency and best practices.

When implementing EnMS thru a Learning Network, the barrier breaks easier because each participant starts as an individual, but in the end is part of the community workign as a unit, rather than just sitting and learning by itself and only involving in traditional activities. This change is pretty simililar to the EnMS’ Deming’s Cycle.
Learning Networks

These are working groups integrated with participants from 10 to 15 different organizations, with a common objective: improve energy efficiency or implementing an EnMS.

Main characteristics:
1. Inicial diagnostic → to define an energy baseline
2. Voluntary compromise to achieve goals
3. Technical assistance
4. Professional moderation
5. Final evaluation
Development of Learning Networks in Mexico

- EnMS Industry
- EnMS Refineries
- EnMS Food and Beverages
- CCA
- Government buildings
- SME (PyMEs)
- $$ Industry
- $$ Bosch
- PCTr Argentina
- Municipalities, commercial buildings, industrial park, transport
- $$ Automotive
Learning Networks

Since the first pilot projects were launched, the word about this working scheme has been spread not only nationally but globally.

We’ve been able to break communication barriers between organizations, set a new way of collaborative work, train professionals and now we’re aiming for new social barriers to overcome, such as gender topics.

Learning Networks has been the best tool to disseminate information and best practices about energy efficiency in a big scale.

Achievements

- 88 certified individuals
- 45 Energy Audits performed
- 200 individuals trained directly
- Over 3000 trained indirectly
- 10,000 tons of CO2e mitigated per year
- 30% energy savings potential identified
- 4 piloted learning networks developed
- 11 highly energy-intensive industries
- 11 Public buildings
- 9 water pumping facilities in Murelos
- 14 water pumping facilities in Coahuila
- 4 manuals explaining the methodology

Impacts:

- 2 triangular cooperations to transfer the Learning Networks methodology
- 150 people in the train of trainers workshops: Initiators, moderators, and technical assistants
- 2 New self-financed Learning Networks: with support from CAMEX and ProCobre
- 2 Learning Networks (Industry and Water pumping facilities of Coahuila) continue with a self-financed second stage
International Collaboration

Since its beginning PRONASGEN has been supported by international agencies that are also looking to promote better practices for energy efficiency and ISO 50001.

Together we coordinate activities in order to help organizations achieve their energy goals and objectives.

The knowledge transfer between agencies has been really successful because of the good communication, compromise and willingness to work together and meet our goals.

We believe it’s important to keep collaborating, because we are sure we still have a lot to learn from one another for the development of our countries.
Challenges

– Keep the momentum going after the end of the international cooperation projects
– Generate the environment for growth in the number of companies involved
  – Through alliances with universities and private sector chambers
  – For learning networks and management for individual companies
  – New international cooperation
– Maintain and/or improve the quality of the interactions and processes
– Keep track of the initiatives and results
– Develop new initiatives
  – Voluntary programs
Related links

- PRONASGEn site
  https://www.gob.mx/conuee/acciones-y-programas/sistemas-de-gestion-de-la-energia
- PRONASGEn documents:
  https://www.gob.mx/conuee/documentos/guias-y-manales?idiom=es
- Sign up to our newsletters:
  https://www.conuee.gob.mx/fenix/programas/listas/ListaIntconb.jsp
- About Learning Networks:
  https://youtu.be/1ZowVkuXu-0