



Regional Center for Lighting

Lighting South Asia - cleanly and efficiently

Established - 2009 June
3G - 20, BMICH, Colombo, Sri Lanka

www.rclsa.lk

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Partners

SARI / Energy



Sri Lanka Sustainable Energy Authority

Lighting
Research Center

at  Rensselaer



Our Vision

Lighting South Asia – cleanly and efficiently

Our Mission

Advancing sustainable lighting and making it affordable in South Asia to improve the wellbeing of citizens and the countries within the region

Opportunities in the Region

IEA Estimates: Electricity access in 2008 - South Asia

Country	Electrification rate (%)			Population without electricity (Millions)
	Total	Urban	Rural	
Afghanistan	14.4	22.0	12.0	23.3
Bangladesh	41.0	76.0	28.0	94.9
India	64.5	93.1	52.5	404.5
Nepal	43.6	89.7	34.0	16.1
Pakistan	57.6	78.0	46.0	70.4
Sri Lanka	76.6 *	85.8	75.0	4.7
South Asia	60.2	88.4	48.4	613.9

* Sri Lanka data is an underestimate. 2010 estimate 86%

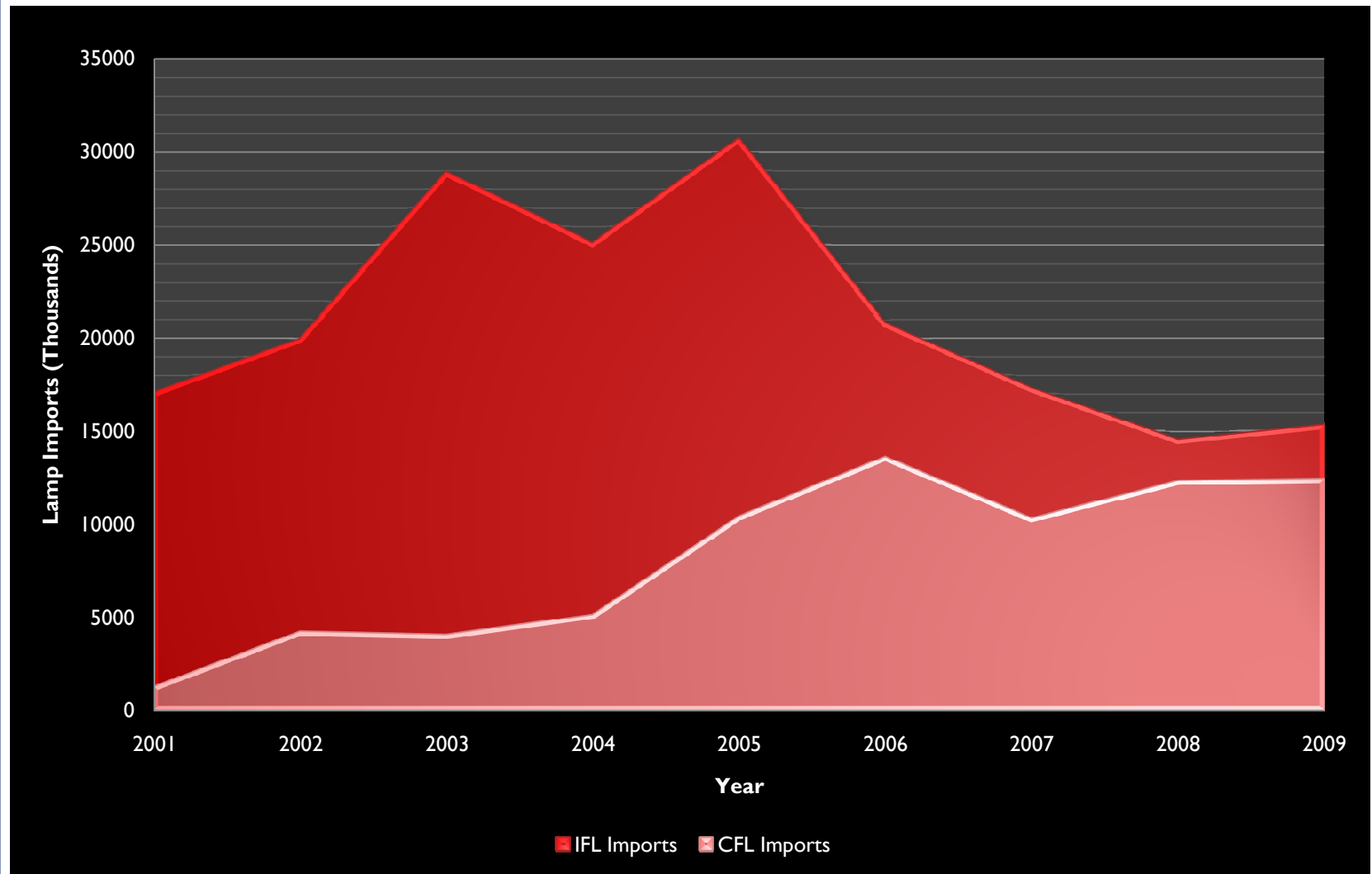
IEA: http://www.iea.org/weo/database_electricity/electricity_access_database.htm

The Facts

- ◆ 600 million of South Asia's population relies on kerosene, candles or firewood for lighting
- ◆ Fuel based lighting is *inefficient, very unhealthy and unsafe, costly, and ecologically unsound*
- ◆ The cost to governments in terms of fuel dependency and subsidies, is very high
- ◆ Centralized electrical grid systems pose high costs for governments and are ineffective for serving remote rural villages
- ◆ Lack of suitable home lighting is solidly linked to *illiteracy & poverty*

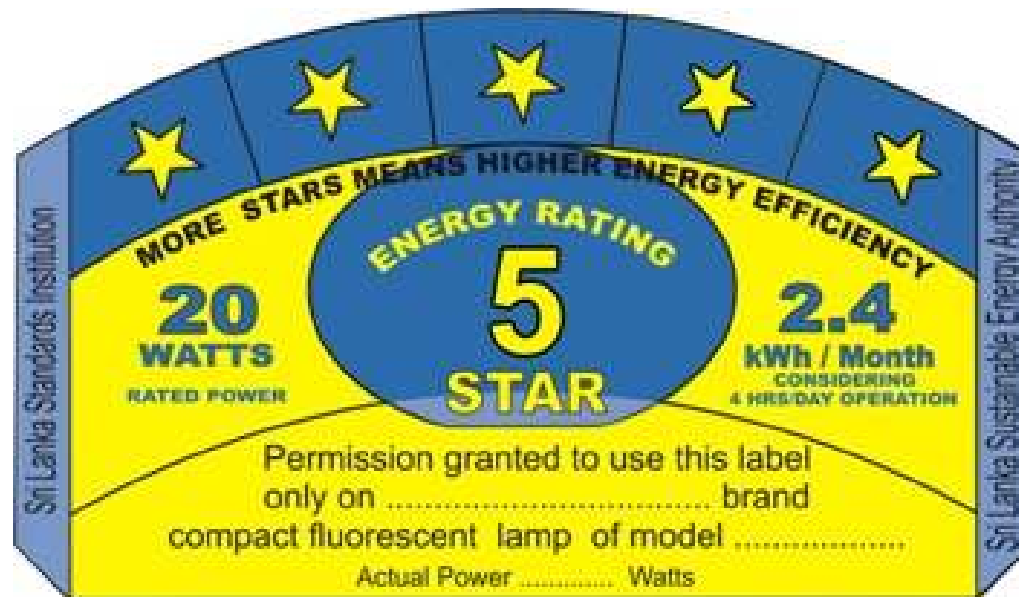
Source – RCL Launching seminar

Use of CFLs in Sri Lanka

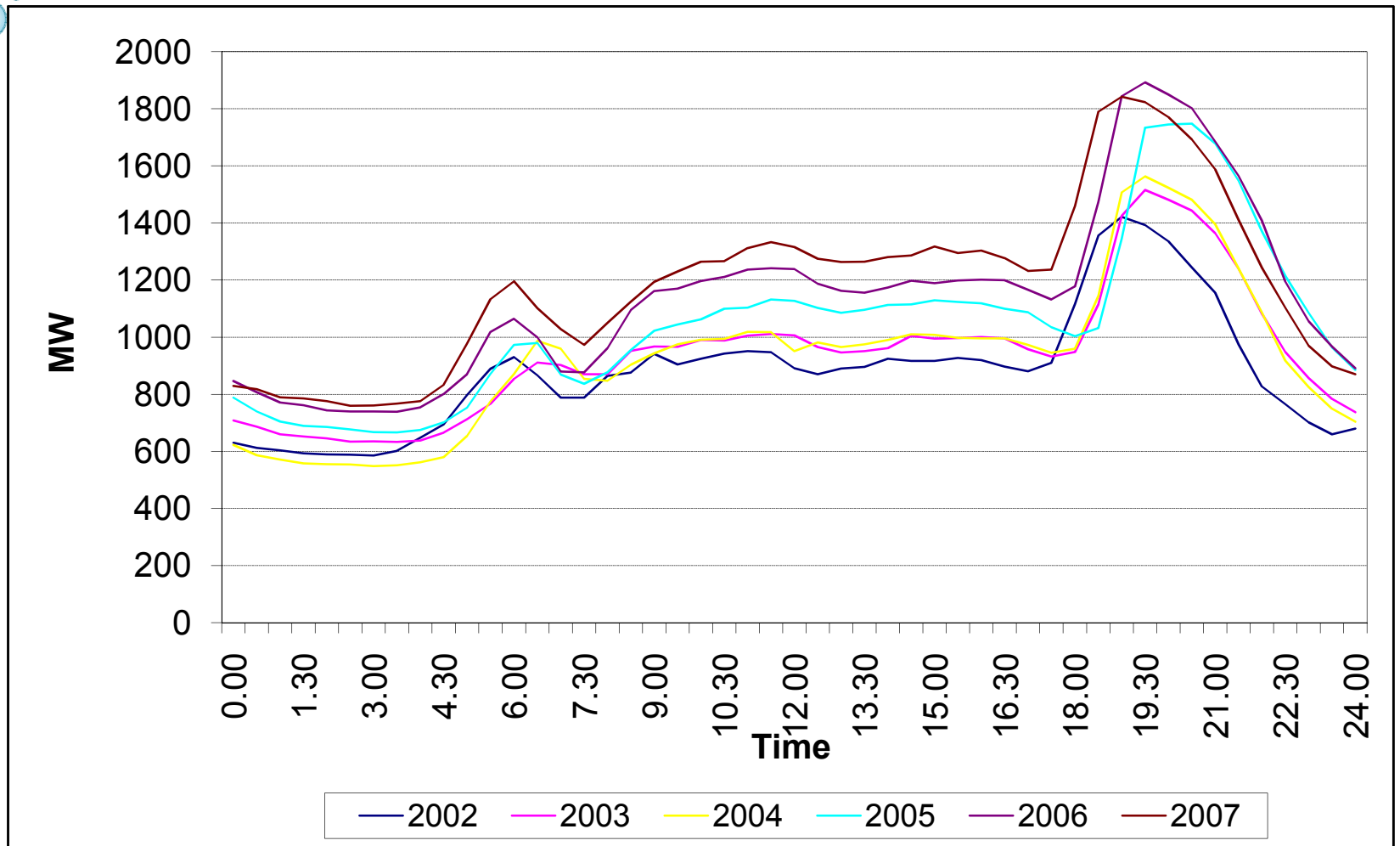


Energy Labeling

- ◆ Introduced an Energy Labeling system for CFLs
 - ◆ Total annual saving potential estimated - 26 GWh, 520 LKRM



Daily Load Curve in Sri Lanka



Utilization of Sky Lights



7.8 % of electricity generation is been used to lit the lamps in day time in Sri Lanka

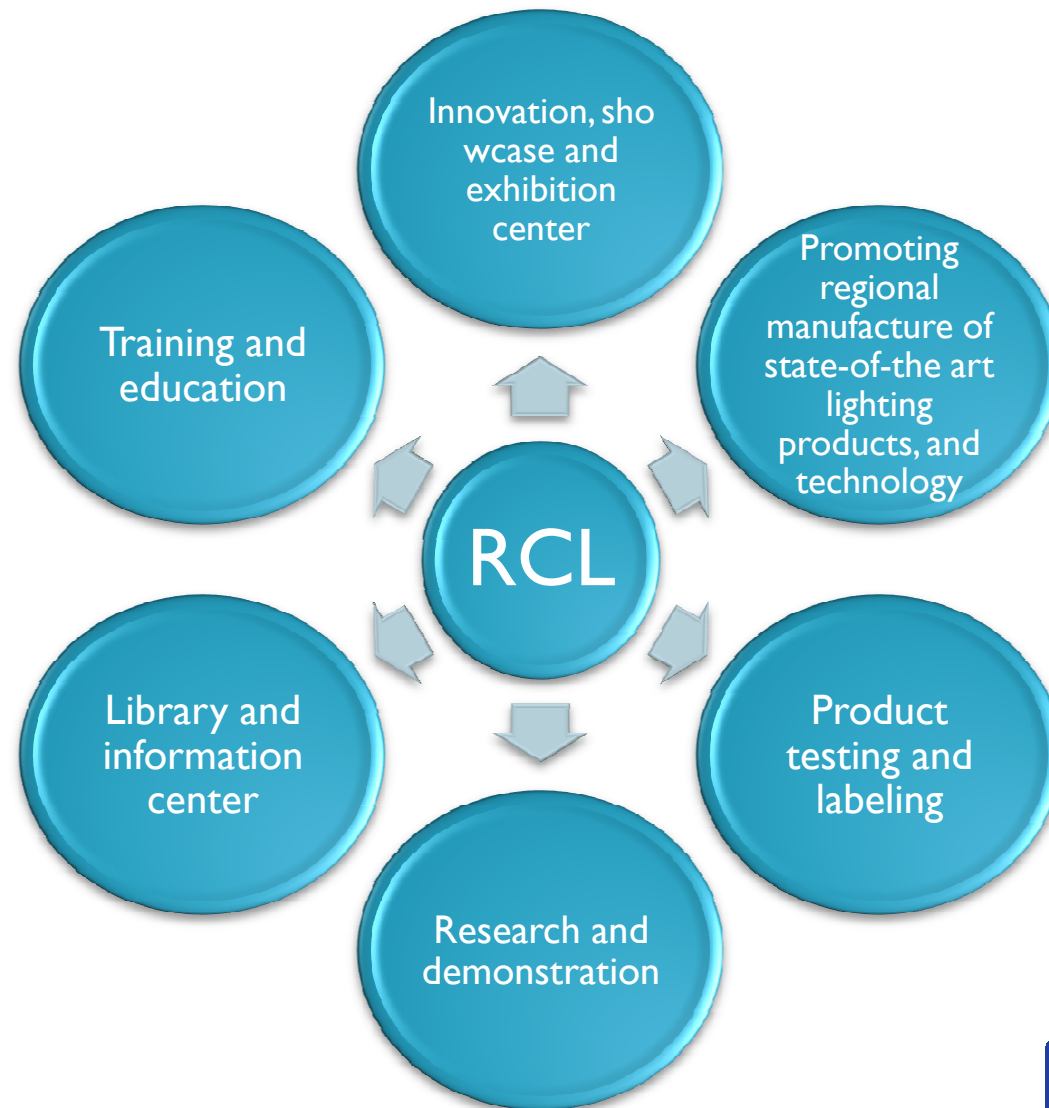
Objectives of the RCL

increase the awareness and affordability of energy efficient, reliable and clean lighting technologies and their applications to reduce the electricity demanded by lighting

catalyse regional manufacturing of energy efficient lighting products to improve the economy of the region and to make lighting affordable to many underprivileged citizens

train and educate the necessary workforce in the region to create sustainable lighting in south Asia

Thematic Areas of Support & Services



Functions and Services



Photometry laboratory

- Accreditation to international standards envisaged (ISO 17025 or comparable)
- Emerging technologies knowledge transfer



Library & Demonstration centre (Outreach)

- Showcase latest lighting technology
- Design software demonstration
- Website
- Links to other libraries and centres



Education & Capacity Development

- M.Sc. Programmes and Diploma programmes collaboratively with University

Milestones



Signed a MoU between GoSL and USAID

- In 24th February 2009



Established RCL in Sri Lanka

- In 27 April 2009 @ 3G – 20, BMICH, Colombo Sri Lanka



Two weeks training programme for senior Engineers at LRC – USA

- From 30th May to 14th June 2009



Launch RCL Web

- www.rclsa.net in June 2009



Two day training course for engineers, architects and planners

- From 8th to 9th Sept. 2009 at Colombo Sri Lanka



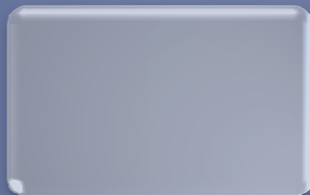
Sustainable Lighting Institute, a five day intensive training course on lighting

- From 16th to 20th Jan 2010 at Beruwala, Sri Lanka



Domestic sector load research – pilot study

- From 1st May to 27th July 2010 in Kurunegala, Sri Lanka



Appointed Council of Advisors

- 06 members including University, private sector and LRC – USA.



Three days training programme on LED for Engineers and Architects

- From 29th June to 1st July 2010 in Colombo, Sri Lanka

In the Pipeline

Establishment of
Photometry Laboratory
and demonstration center

- 1st Stage, 20th January 2011 with minimum facility
- Enhance to full scale with assistance of ADB by December 2011

Second annual session

- From 17th to 19th at Male, Maldives

Postgraduate certificate
course

- February / March 2011 at Colombo, Sri Lanka

Assistance to SLIA
capacity development

- Assistance for development of curriculum and implementation of efficient use of lighting

Technology transfer

- Replacement of Kerosene lamps with LED + Solar PV technology in rural areas in Sri Lanka.
- Technical support for LED lamp manufactures

How to create sense of value of RCL among key stakeholders?

◆ Value additionality

- ◆ Recognized as a “Go-to” place for credible advice, testing services, design assistance and other services
 - ◆ Need to show that RCL advice provided will add value to their products and businesses/services
- ◆ Be a source of financial support for innovation and technology transfer
- ◆ Serve as facility for networking (between suppliers, distributor/dealers and architects/builders)
 - ◆ Trade conferences
 - ◆ B2B networking services via website

How to create sense of value of RCL among key stakeholders?

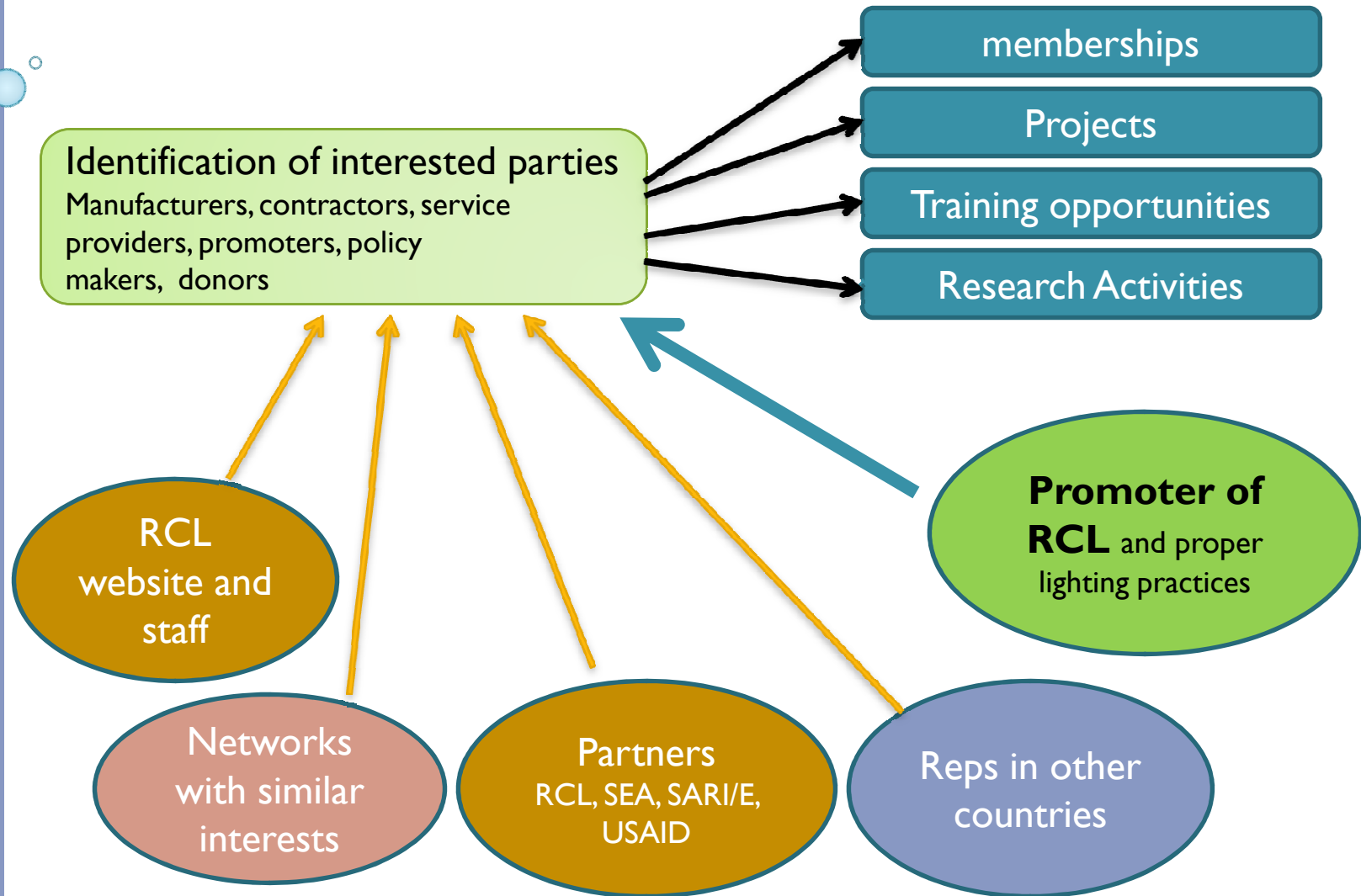
◆ Regulatory

- ◆ Setting standards - lighting products, lighting services
- ◆ Testing and certification services for governments and manufacturers/distributors
- ◆ Compliance support

How to create sense of value of RCL among key stakeholders?

- ◆ Create a sense of “community”
 - ◆ Request interested parties to sign up as members on website. Will receive regular Tech Notes and (monthly) Newsletters of interest to community. Initially and annually survey members to ask for their priorities
- ◆ Design competition (innovation awards)
- ◆ Support priority projects
- ◆ Support for off-grid lighting: Residential, commercial and street lighting, especially LED and advanced CFL/tube

Marketing Plan



Source of Income / Finance

Government of Sri Lanka

- Office space and other infrastructure
- Development activities for first five years

Donor fund

- USAID, Sari Energy, Technical support through LRC - USA
- ADB, for photometry laboratory and R&D works

Membership

- Minimum to cover marketing, promotions and networking cost from the second year onwards

Services

- Products testing
- Consultancy services

Training Programmes

- Fees to cover the programme expenses