



the Learning Network on
Sustainable energy systems

STUDY CASES Quick Guide

In this website section you can browse a study case:

SELECT BY STUDY CASE
SELECT BY CRITERIA

SELECT BY STUDY CASE 1/4

The screenshot shows the LeNSes website interface. At the top, there is a navigation menu with 'STUDY CASES' highlighted. Below the menu, there are three tabs: 'SELECT BY STUDY CASE', 'SELECT BY CRITERIA', and 'UPLOAD/MODIFY A STUDY CASE'. A search bar is located below the tabs. The main content is a table with columns: CATEGORY, NAME, DESCRIPTION, COUNTRY, STATE, and DOWNLOAD. The table lists several study cases, each with a 'download' button. Numbered callouts (1-5) are placed on the interface to indicate the steps: 1 points to the 'STUDY CASES' menu item, 2 to the 'SELECT BY STUDY CASE' tab, 3 to the search bar, 4 to a 'download' button, and 5 to a study case row.

CATEGORY	NAME	DESCRIPTION	COUNTRY	STATE	DOWNLOAD
Biomass Energy	Husk Power	The company provides energy solutions by installing 25 kW to 100 kW biomass power plants and then wiring villages of up to 4000 inhabitants to deliver electricity. Husk Power design and installs the mini grids that can...	India		download
Biomass Power	Domestic Biogas	The project installed biogas plants that use cattle manure to provide biogas for cooking and lighting. The gas is piped to the kitchen inside the house, where it is used for cooking on specially-designed burners, and so...	Zirakpur, India	on going	download
Energy	Electronic electricity meter with remote control - Enel	The new electronic meters allow the introduction of remote control and this allows monitoring of the network (to identify possible failures), the meter readings and contract management (new connections, terminations, su...	Italy	Ongoing	download
Energy	Energy Service Companies (ESCO) - TAC Energy Solutions	The Energy Service Companies in the EU and in US supply an overall package of services on a turnkey basis. We could say that they are selling thermal comfort instead of fuels. The package comprises: supply of energy res...	UK	Ongoing	download
Energy	Services for decentralised energy systems - Qurrent	Qurrent does not sell energy, they teach people how to produce and manage renewable energy by your own. Qurrent specializes in Decentralized Renewable Energy systems. Qurrent develops devices, software and services that...	The Netherlands	Ongoing	download
Human Power	Nuru Energy	The company sells human-powered charging stations targeted to entrepreneurs, who are selected and trained through local organisations (e.g NGOs). The entrepreneur purchases the charging station (with financing aid) and ...	Africa, India	on going	download
Hydro/Solar/Biomass Energy	Gram	Gram Power provides energy services in rural India through the installation and operation of mini grids. Target customers are rural communities who gets connected to the mini grid and pre-pay for the energy they need. H...	India		download

After having logged in, you click on 'STUDY CASES' **1**, click on the tab 'SELECT BY STUDY CASE' **2** and eventually search the study case by typing a keyword **3**. You can directly download the report on your computer **4** or click on the desired one to see it online **5**

SELECT BY STUDY CASE 2/4

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THE SUN SHINES FOR ALL, PORTO ALEGRE, BRAZIL

< back

download report

SUSTAINABLE CRITERIA AND GUIDELINES + view

GENERAL INFORMATION	
Project name	The Sun Shines for All
Category	Solar Energy
Producer/provider	IDEAAS
Designer	Fabio Rosa
Project location	Porto Alegre, Brazil
Main contact	Fabio Rosa
E-mail	info@ideaas.org.br
Website	energymap-scu.org/ideaas
Start (year)	2001
State	on going

DESCRIPTION

The Sun Shines for All (TSSFA) provides affordable energy solutions to Brazilians people that live primarily in rural and off-grid communities who does not have access to electricity. TSSFA leases a complete package, which includes the hardware to generate solar energy (solar panel, batteries, etc.), the installation service, as well as the products that use the electricity (e.g. light bulb). This package could be rented for 10 euro/month plus an initial installation fee. There are 3 kits that could be rented: the basic one it is leased for 10 euro /month, kits 2 and 3 rent for 15 euro and 22 euro respectively and come with more lights, outlets and wattage.

SUSTAINABLE BENEFITS

Environmental Benefits

The system is environmentally sustainable because uses solar energy and it has been estimated that providing solar energy to 12,900 families (approximately 52,000 people) would save 9 million liters of kerosene This help to reduce carbon emissions and impact on global warming. Moreover, since the provider retains the ownership of the solar panel and accessories his economic interest lead to design

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You can view the picture in full screen, clicking on the button **1**

SELECT BY STUDY CASE 3/4



THE SUN SHINES FOR ALL, PORTO ALEGRE, BRAZIL

The company offers a Solar Home System package on leasing by providing customers with a contract that includes installation, maintenance, battery replacement after 3 years and take-back services. Users pay an initial deposit and a monthly fee according to the system size and number of lights implied. The provider, who retains the ownership of systems and appliances, trains and employs local technicians who perform maintenance, repair and take-back services.

PROVIDER/S: IDEAAS
CUSTOMER: Households in Brazil
S.PSS TYPE: Providing final results
PRODUCTS: Hardware to generate solar energy (solar panel, batteries, etc.), and Energy Using Products (EUP) light bulbs
SERVICES: Installation, maintenance and repair, training, end of life treatments.
OWNERSHIP: IDEAAS (provider)
PAYMENT: Initial Deposit + Pay per period
DRE CONF.: Distributed & off-grid
RESOURCE: Solar Energy

1/3

2

3

Use the arrows to watch all the images **2** and reduce the images to go back to the profile **3**

SELECT BY STUDY CASE 4/4

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THE SUN SHINES FOR ALL, PORTO ALEGRE, BRAZIL

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download report **4**

SUSTAINABLE CRITERIA AND GUIDELINES **5**

SUSTAINABLE ENERGY FOR ALL Complement the DRE offer with life cycle services (turnkey) **5**

SUSTAINABLE ENERGY FOR ALL Complement the DRE offer, with support services for the END-OF LIFE TREATMENT of its components **5**

GENERAL INFORMATION

Project name	The Sun Shines for All
Category	Solar Energy
Producer/provider	IDEAAS
Designer	Fabio Rosa
Project location	Porto Alegre, Brazil
Main contact	Fabio Rosa
E-mail	info@ideaas.org.br
Website	energymap-scu.org/ideaas
Start (year)	2001
State	on going

DESCRIPTION

The Sun Shines for All (TSSFA) provides affordable energy solutions to Brazilians people that live primarily in rural and off-grid communities who does not have access to electricity. TSSFA leases a complete package, which includes the hardware to generate solar energy (solar panel, batteries, etc.), the installation service, as well as the products that use the electricity (e.g. light bulb). This package could be rented for 10 euro/month plus an initial installation fee. There are 3 kits that could be rented: the basic one it is leased for 10 euro /month, kits 2 and 3 rent for 15 euro and 22 euro respectively and come with more lights, outlets and wattage.

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Environmental Benefits

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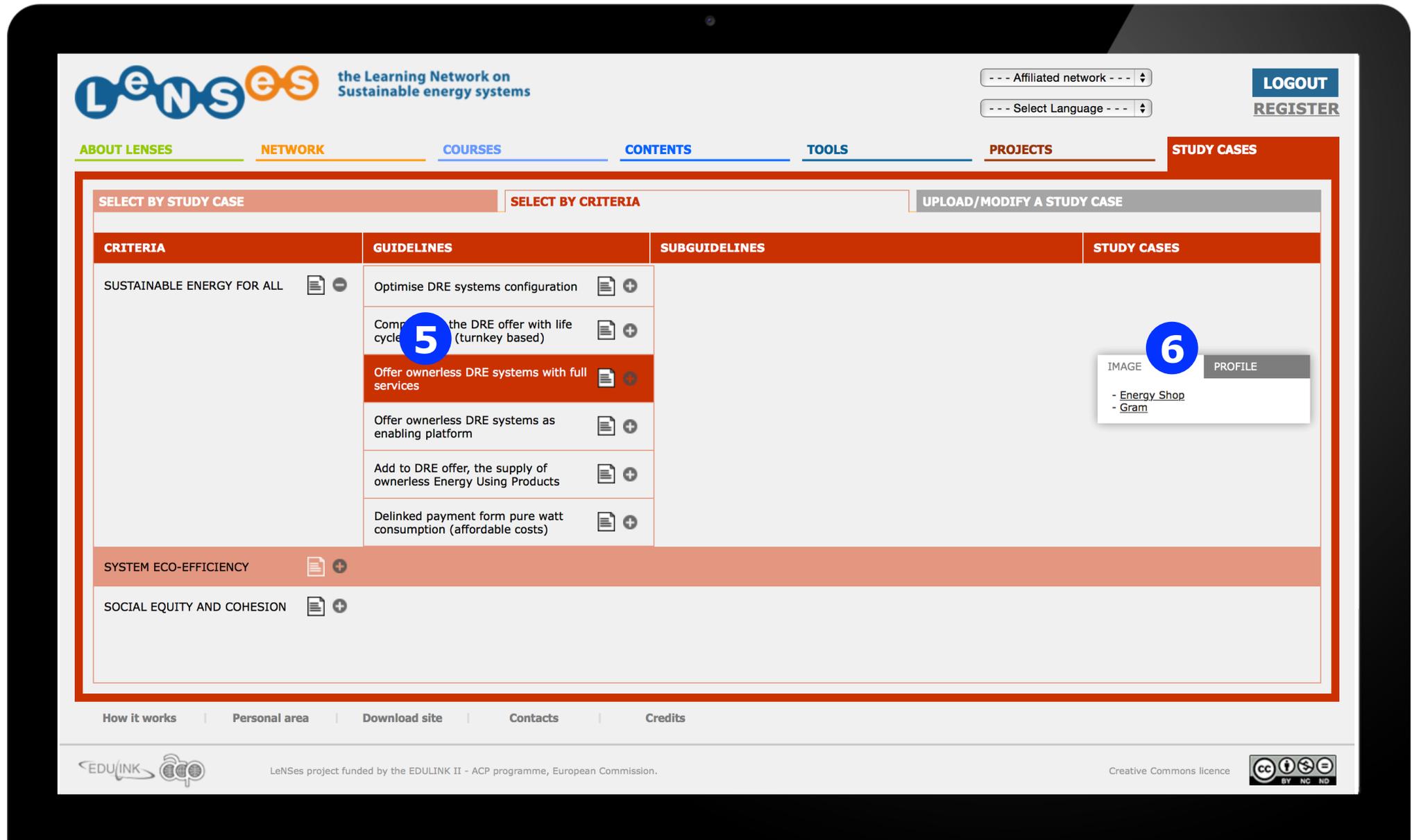
You can download the report **4** and view the Sustainable Criteria and Guidelines assigned to the study case **5**. Finally go back to the full list of study cases **6**

SELECT BY CRITERIA 1/6

The screenshot displays the LeNSes website interface. At the top, the logo 'LeNSes' is followed by the text 'the Learning Network on Sustainable energy systems'. There are dropdown menus for 'Affiliated network' and 'Select Language', and buttons for 'LOGOUT' and 'REGISTER'. The navigation menu includes 'ABOUT LENSES', 'NETWORK', 'COURSES', 'CONTENTS', 'TOOLS', 'PROJECTS', and 'STUDY CASES'. The 'STUDY CASES' tab is highlighted with a blue circle '1'. Below the navigation, there are three tabs: 'SELECT BY STUDY CASE', 'SELECT BY CRITERIA' (highlighted with a blue circle '2'), and 'UPLOAD/MODIFY A STUDY CASE'. The 'SELECT BY CRITERIA' tab shows a table with four columns: 'CRITERIA', 'GUIDELINES', 'SUBGUIDELINES', and 'STUDY CASES'. The 'CRITERIA' column lists 'SUSTAINABLE ENERGY FOR ALL', 'SYSTEM ECO-EFFICIENCY', and 'SOCIAL EQUITY AND COHESION'. The 'STUDY CASES' column shows a list of study cases, including 'Services for decentralised energy systems - Current', 'The Sun Shines for All', 'Indigo', 'M-KOPA Solar', 'Energy Shop', 'Solar Hom System repair', 'South African township's solar-powered cafe', 'Micro-hydro makes the grid reliable', 'Water Resources For Hydro Power Generation', 'Small Wind Power Generation Systems', 'Domestic Biogas', 'Mosaic Inc.', 'Combined Pico-hydro and PV system', 'Solar Transition', 'Shared Solar', 'Yeelen Kura', 'OFF-GRID: ELECTRIC', 'Practical Action', 'Grameen Shakti', 'TERI', 'Sunlabob', 'QMC Power', 'Gram', 'NuRa', and 'Husk Power'. The 'STUDY CASES' column is highlighted with a blue circle '4'. At the bottom, there are links for 'How it works', 'Personal area', 'Download site', 'Contacts', and 'Credits'. The footer includes the EDULINK logo, the text 'LeNSes project funded by the EDULINK II - ACP programme, European Commission.', and the Creative Commons licence logo.

After having logged in, you click on 'STUDY CASES' **1**, click on the tab 'SELECT BY CRITERIA' **2**, click on the desired criteria **3** and the list of all the study cases assigned to the criteria appears on the right column **4**

SELECT BY CRITERIA 2/6



You can restrict your research by selecting one guideline of the selected criteria **5** and see all the study cases connected to it **6**

SELECT BY CRITERIA 3/6

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ABOUT LENSES NETWORK COURSES CONTENTS TOOLS PROJECTS STUDY CASES

SELECT BY STUDY CASE SELECT BY CRITERIA UPLOAD/MODIFY A STUDY CASE

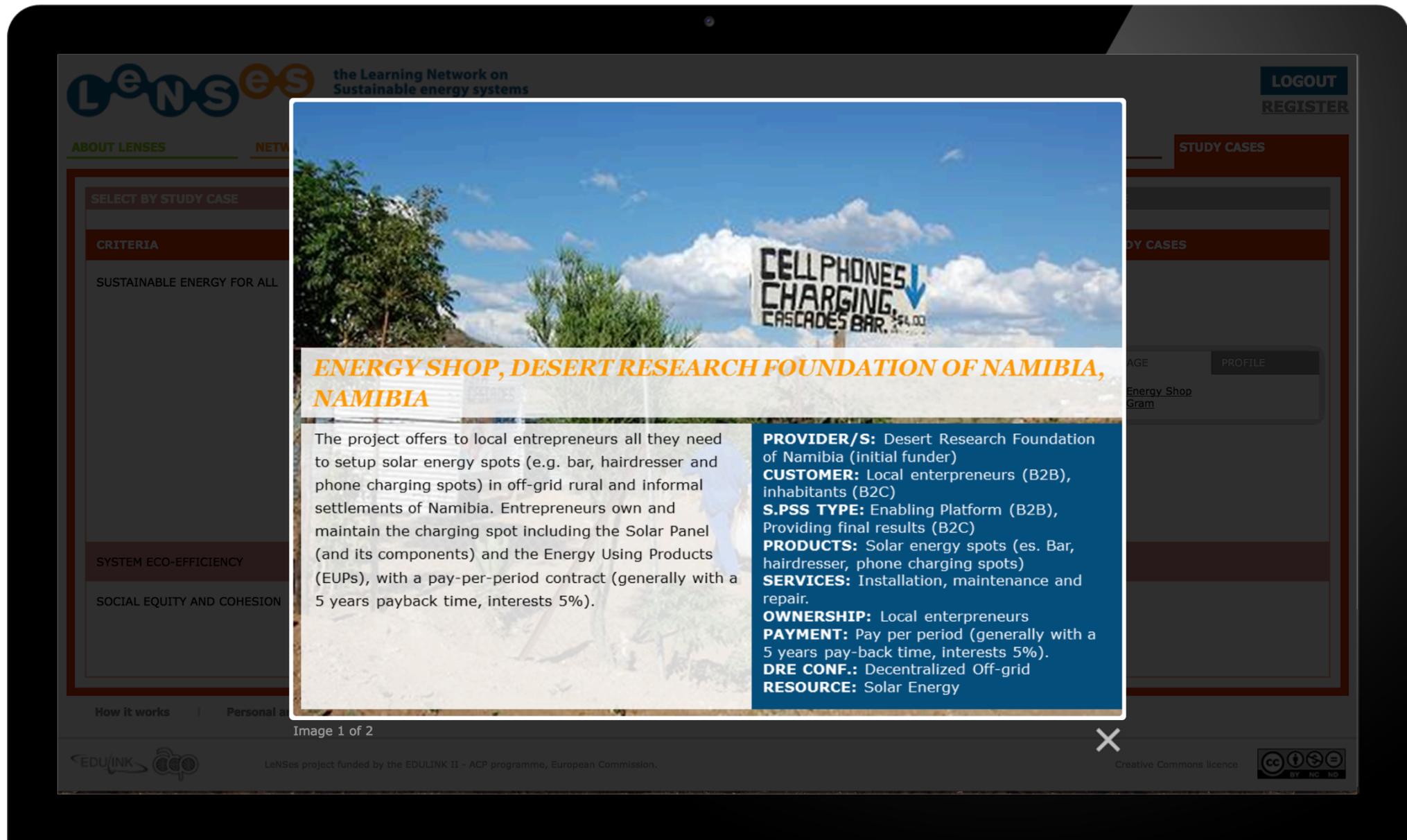
CRITERIA	GUIDELINES	SUBGUIDELINES	STUDY CASES
SUSTAINABLE ENERGY FOR ALL	Optimise DRE systems configuration		
	Complement the DRE offer with life cycle services (turnkey based)	Complement the DRE offer, with FINANCIAL SERVICES to support initial investment and eventual maintenance and repairing costs, i.e. micro-credit, crowdfunding, donation.	
		Complement the DRE offer, with support services for the DESIGN or INSTALLATION of its components (the micro generator, the inverter, the wiring, etc.)	
		Complement the DRE offer, with support services during use, i.e. MAINTENANCE, REPAIRING and UPGRADING of its components	
		Complement the DRE offer, with support services for the END-OF LIFE TREATMENT of its components	
		Complement the DRE offer, with support services for TRAINING/INFORMATION on design, installation, maintenance, repair and end of life treatment of its components	
	Offer ownerless DRE systems with full services		
	Offer ownerless DRE systems as enabling platform		

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You can restrict your research once more by selecting one sub guideline of the selected guideline **7** and watch the images of the study case you desire **8**

SELECT BY CRITERIA 4/6



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ABOUT LENSES NETWORK

SELECT BY STUDY CASE

CRITERIA

SUSTAINABLE ENERGY FOR ALL

SYSTEM ECO-EFFICIENCY

SOCIAL EQUITY AND COHESION

How it works Personal a

Image 1 of 2

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ENERGY SHOP, DESERT RESEARCH FOUNDATION OF NAMIBIA, NAMIBIA

The project offers to local entrepreneurs all they need to setup solar energy spots (e.g. bar, hairdresser and phone charging spots) in off-grid rural and informal settlements of Namibia. Entrepreneurs own and maintain the charging spot including the Solar Panel (and its components) and the Energy Using Products (EUPs), with a pay-per-period contract (generally with a 5 years payback time, interests 5%).

PROVIDER/S: Desert Research Foundation of Namibia (initial funder)
CUSTOMER: Local entrepreneurs (B2B), inhabitants (B2C)
S.PSS TYPE: Enabling Platform (B2B), Providing final results (B2C)
PRODUCTS: Solar energy spots (es. Bar, hairdresser, phone charging spots)
SERVICES: Installation, maintenance and repair.
OWNERSHIP: Local entrepreneurs
PAYMENT: Pay per period (generally with a 5 years pay-back time, interests 5%).
DRE CONF.: Decentralized Off-grid
RESOURCE: Solar Energy

All the images of the study case selected are displayed.

SELECT BY CRITERIA 5/6

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SELECT BY STUDY CASE **SELECT BY CRITERIA** UPLOAD/MODIFY A STUDY CASE

CRITERIA	GUIDELINES	SUBGUIDELINES	STUDY CASES
SUSTAINABLE ENERGY FOR ALL	Optimise DRE systems configuration Complement the DRE offer with life cycle services (turnkey based) Offer ownerless DRE systems with full services Offer ownerless DRE systems as enabling platform	<p>The ENERGY SUPPLIER (existing or newly established) complements the OWNERLESS offer of the DRE system - micro generator eventually with some of its accessories (storage, inverter, wiring, etc.) and/or the mini-grid - with the offer of one or more LIFE CYCLE support SERVICES, i.e. installation, maintenance, repairing, upgrading and end-of life treatment.</p> <p>The MICRO GENERATOR PRODUCER complements the OWNERLESS offer of the DRE system, with the offer of one or more LIFE CYCLE support SERVICES, i.e. installation, maintenance, repairing, upgrading and end-of life treatment.</p> <p>A PARTNERSHIP composed by two or more among the energy supplier, the micro generator producer, the storages producer, the inverters producer, etc., complements the OWNERLESS FULL PACKAGE offer of their products, with one or more LIFE CYCLE support SERVICES.</p>	<p>9</p> <p>IMAGE PROFILE</p> <ul style="list-style-type: none">- Energy Shop- Gram

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Or you can choose to select and view the entire profile online **9**

SELECT BY CRITERIA 6/6

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ABOUT LENSES | **NETWORK** | **COURSES** | **CONTENTS** | **TOOLS** | **PROJECTS** | **STUDY CASES**

ENERGY SHOP, NAMIBIA

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ENERGY SHOP, DESERT RESEARCH FOUNDATION OF NAMIBIA, NAMIBIA

The project offers to local entrepreneurs all they need to setup solar energy spots (e.g. bar, hairdresser and phone charging spots) in off-grid rural and informal settlements of Namibia. Entrepreneurs own and maintain the charging spot including the Solar Panel (and its components) and the Energy Using Products (EUPs), with a pay-per-period contract (generally with a 5 years payback time, interests 5%).

PROVIDER/S: Desert Research Foundation of Namibia (initial funder)
CUSTOMER: Local entrepreneurs (B2B), inhabitants (B2C)
S.PSS TYPE: Enabling Platform (B2B), Providing final results (B2C)
PRODUCTS: Solar energy spots (es. Bar, hairdresser, phone charging spots)
SERVICES: Installation, maintenance and repair.
OWNERSHIP: Local entrepreneurs
PAYMENT: Pay per period (generally with a 5 years pay-back time, interests 5%).
DRE CONF: Decentralized Off-grid
RESOURCE: Solar Energy

GENERAL INFORMATION

Project name	Energy Shop
Category	Solar Energy
Producer/provider	Desert Research Foundation of Namibia
Designer	Desert Research Foundation of Namibia
Project location	Namibia
Main contact	Desert Research Foundation of Namibia
E-mail	drfn@drfn.org.na
Website	www.drfn.org.na
Start (year)	2009
State	on-going

DESCRIPTION

The project is a B2B Product-Service System, which encourages entrepreneurship, to setup solar energy spots (e.g. Bar, hairdresser and phone charging spots) in the off-grid rural and informal settlements of Namibia.

Entrepreneurs own and maintain the Charging spot and the Energy Using Products (EUPs), with a pay-per-period contract (generally with a 5 years pay-back time, interests 5%). In this demonstration project, the selected entrepreneurs received the solar system free, after they had submitted an energy profile of their region and attended a business management course.

SUSTAINABLE BENEFITS

Environmental Benefits

By using solar energy for charging mobile phones and other devices, less electricity based on exhaustible fossil fuel resources is used; hence the CO2 emissions are reduced by around 1,500 kg per year. The reduction in the use of kerosene lamps reduces harmful and toxic fumes with a positive impact

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SUSTAINABLE CRITERIA AND GUIDELINES [+ view](#)

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The profile of the study case selected is displayed, then go back to the list of criteria and guidelines 10